Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services

DATA REPORT
AND PROPOSED ADDITIONAL INVESTIGATION

TO: Chris Black, U.S. EPA
Dave Favero, RACER TRUST
Grant Trigger, RACER TRUST

FROM: Mike Smith, Applied *Eco*Systems, Inc.

DATE: July 9, 2013

SUBJECT: RACER Flint West Industrial Land (#12990)
Summary of Additional Site Investigation

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1.0 INTRODUCTION

Applied *Eco*Systems, Inc. (Æ) completed the additional site investigations at the RACER Trust Flint West Industrial Land - #12990 Site between April 25 and April 30, 2013 as outlined in the February 12, 2013 Data Report submitted to The United States Environmental Protection Agency (USEPA).

The Site consists of approximately five acres of land located west of Stevens Street and north of Glenwood Avenue in Flint, Genesee County, Michigan. The Site is developed with a Consumers Energy electrical substation in the central portion. Almost the entire Site consists of concrete pavement, remaining after the demolition of a former manufacturing building. The majority of the Site is secured with a locked chain-link fence.

The exceptions to the approved USEPA Scope of Work are as follows:

- Borehole groundwater samples were not collected. Temporary well screens did not produce sufficient groundwater to properly develop and sample the wells using low-flow methods;
- In December 2012, MW-106S was installed at the southeast corner of the Site. The well did not produce sufficient groundwater for sampling. The January 13, 2013 Data Report indicated that a replacement well would be installed in this location. On April 25, 2013, Æ removed the casing and screen from the existing MW-106S, overdrilled the borehole, and installed the well two feet deeper than before. The well produced sufficient sample volume for development and analysis. Therefore, the well was named MW-106SR, and another replacement well was not installed;
- Some boring locations were revised slightly due to limited accessibility to Geoprobe drilling equipment (due to differing concrete slab elevations). In addition, the February 13, 2013 map indicated a proposed well northwest of the utility substation and another well near the MW-110S location. These two well locations were presented on the map in what were intended as approximate locations but were inadvertently not discussed in the text of the report. The intention was to install the wells after receipt of the analytical results from the soils investigation and groundwater sampling. The wells are scheduled to be installed by July 16, 2013 and sampled during the August, 2013 groundwater monitoring event;
- Investigations (including installation of two monitoring wells) were proposed for the City of Flint former "Chevy-in-the-Hole" site to the north. The investigations were not completed because the City of Flint has not yet granted access;

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- The groundwater samples were proposed to be analyzed for 10 Michigan Department of Environmental Quality (MDEQ) metals in addition to Volatile Organic Compounds (VOCs) and Polynuclear Aromatic Compounds (PNAs). Arising from the fact that copper and zinc were not previously found at levels of concern on-site, and subsequent discussions regarding eliminating these metals, Æ mistakenly submitted the groundwater samples only for RCRA 8 metals analysis. This error was not discovered until after the laboratory disposed of the samples. Future analysis will include the proposed/approved Michigan 10 metals;
- The survey was not completed. Field to Finish has been unable to obtain benchmark information from the City of Flint. Interim financial management staff has not allowed access to the necessary historical engineering records. Field to Finish expects access to the needed records by July 1, 2013. Alternatively, Field to Finish indicated that other area engineering companies would be contacted in an attempt to collect the necessary USGS datum benchmark information.

2.0 INVESTIGATION ACTIVITIES COMPLETED

Administrative Matters

- Began process to obtain access to the City of Flint property to the north, commonly known as "Chevy-in-the-Hole" for the installation of two monitoring wells.

Soil Borings/Sampling (Task 1 - Former Chrome Plater and AOC3 and Task 2 – Former TCE Degreaser Unit)

- Completed five soil borings and collected seven soil samples for VOCs analysis as proposed in the February, 2013 Data Report.

Well Installation and Abandonment (Task 1 - Former Chrome Plater and AOC3 and Task 2 – Former TCE Degreaser Unit)

- MW106S was overdrilled, the screen was set two feet deeper, and the well was developed. Therefore, the well was named MW-106SR, and another replacement well was not installed.

Groundwater Monitoring (Task 6)

- All wells were gauged. No NAPL was encountered.
- All wells were sampled. Samples were analyzed for VOCs, PNAs, and 8 RCRA metals. Analytical results are attached.

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3.0 INVESTIGATION RESULTS

Comparison of soil and groundwater data to current Michigan Department of Environmental Quality (MDEQ) Generic Residential and Non-Residential Cleanup Criteria (GRCC/GNRCC) indicates the following:

Groundwater Results

Metals: Selenium and arsenic were detected above the Groundwater to Surface Water Interface (GSI) criteria, and arsenic was detected above the Drinking Water Protection (DWP). No other criteria were exceeded. The metals concentrations are consistent with expected regional conditions, do not appear to represent a plume, and are believed to be naturally-occurring. Although the MDEQ has published state-wide and regional "background" concentrations for soils, there are no such values published for groundwater. The concentrations of arsenic and selenium are generally consistent with concentrations encountered by Æ at other uncontaminated sites in the Flint area. Although low-flow sample collection techniques were properly used, the possibility also exists that the metals concentrations are a result of sample turbidity.

PNAs: No polynuclear aromatics (PNAs) were detected above GRCC or GNRCC.

VOCs: (VOCs comparison includes the updated criteria published by the MDEQ on September 28, 2012). Only Vinyl Chloride (17ppb in MW-109S, located off-site to the north)) exceeded the GSI criteria. The GSI protection criterion for vinyl chloride is 13ppb. This well is located approximately 640 feet from the Flint River. GSI is not believed to be at risk due to the distance to the Flint River and the low concentration of vinyl chloride encountered. This vinyl chloride concentration is also greater than the DWP criterion of 2.0ppb. In addition, trichloroethene was detected in MW-109S at 178ppb, exceeding the DWP criterion of 5.0ppb. Trichloroethene was also detected at 9.0ppb in MW-107S. No other criteria were exceeded. A substantial decrease in VOCs was encountered in MW-111S compared to the previous sampling event. This was the second sampling of this well. Future consideration will be given to this matter if anomalous results are encountered.

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Soils Results

VOCs: Various CVOCs and naphthalene were detected in several borings above the DWP and/or GSI criteria. Trichloroethene was detected above some inhalation criteria as follows:

Soil (parts per billion)						
Analyte	Res. Vol. to Indoor Air	Res. Vol. to Ambient Air – Infinite Source Thickness	Res. Vol. to Ambient Air – 5m Source Thickness	Non-Res. Vol. to Indoor Air	Non-Res. Vol. to Ambient Air – Infinite Source Thickness	Non-Res. Vol. to Ambient Air – 5m Source Thickness
Trichloroethene	1,000	11,000	25,000	1,900	14,000	25,000

Trichloroethene was identified in soils at three locations (including past investigations) above one or more of the above volatilization criteria. As follows:

Analyte	Location	Results (ppb)	Inhalation Criteria Exceeded
Trichloroethene	SB-114 (20'-21')	1,220	Only Residential Indoor Air
	SB-117 (18'-19')	5,980	Residential and Non-Residential Indoor Air
	SB-122 (15'-16')	14,400	Residential and Non-Residential Indoor Air, Residential Ambient Air (Infinite Source), Non-Residential Ambient Air (Infinite Source)

Based on current and past investigations, the area of CVOCs above inhalation criteria is limited in extent and not near any buildings. Based on proximate past sampling and site observations (including photoionization detector (PID) readings); no areas of VOC impacts in soils are greater than 5 meters in thickness. This evaluation is consistent with the MDEQ's guidance provided in Operational Memorandum Number 1, Attachment 7, *Technical Support Document - Attachment 7 - Part 201 Generic Soil Inhalation Criteria For Ambient Air, Part 213 Tier I Soil Inhalation Risk-Based Screening Levels For Ambient Air.*

Attachment 7 states: "These criteria (Finite Source) modified for source area size, may be applied where characterization of the vertical extent of soil contamination is adequate and the vertical extent (i.e., source thickness, ds) of the contaminant source is no greater than the 2 and 5 meter source thickness assumed for these scenarios. Finite source VSIC may be used to determine the need for a response action to address soil contamination or to verify the adequacy of soil remediation when the soil-to-ambient air pathway is the most restrictive and relevant pathway."

This evaluation is assisted in the document using a graphical illustration of example scenarios, as follows:

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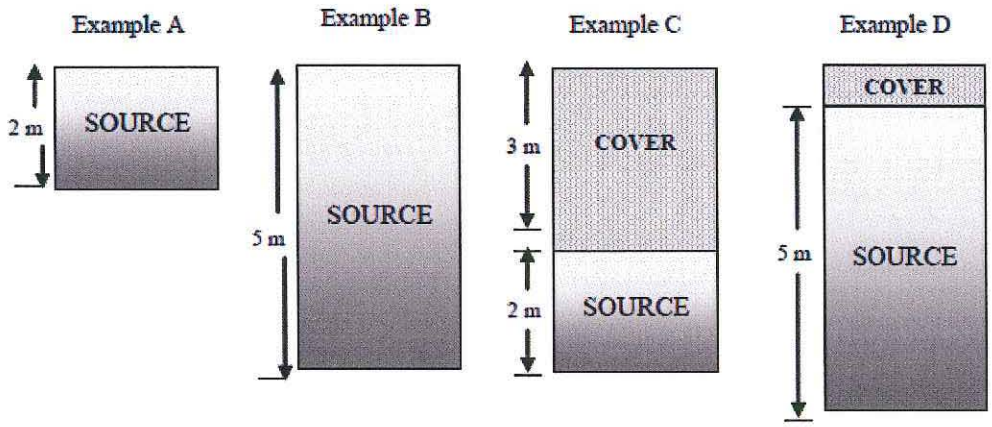
Figure 1: Finite Source VSIC and Source Thickness



The RACER Flint West scenario is consistent with the "Example D." Therefore, the indoor air and infinite source ambient air protection criteria do not apply, and a vapor intrusion concern is not indicated.

Sample analytical results (tabulated results and reports) are attached. Figures 2 and 3 illustrate the GSI and drinking water exceedances, respectively. Soil exceedances are shown on Figure 3.

Data validation information is expected by July 1, 2013.

4.0 PROPOSED ADDITIONAL INVESTIGATIONS

Proposed additional investigations are as follows:

1. Survey new sample locations.
2. Conduct gauging/sampling of the existing monitoring wells. The proposed analytical parameters for groundwater samples are:
    - 10 MDEQ metals: - Based on past low turbidity conditions, it is expected that low-flow sampling and total metals analysis is appropriate. (Past sampling has not required sample filtration);
    - PNAs (EPA 8270); and
    - VOCs (EPA 8260).

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3. Conduct two soil borings and install one monitoring well to the north/northwest of SB-122. The SB-122 location represents the highest CVOC concentration in soils. Install a second well northwest of SB-122. The off-site wells are intended to evaluate the extent of the impact and to determine if the CVOC soil impact is a long-term threat to the GSI.
4. Install off-site wells per approved plan within 30 days of finalized Access Agreement with the City.

5.0 PROPOSED SCHEDULE:

Two additional wells will be installed (northwest of the utility substation and downgradient from SB-122) by July 14, 2013 and sampled during the August 2013 monitoring event.

Two additional wells will be installed on the City of Flint-owned property to the north within 30 days of receipt of a finalized Access Agreement.

Field work for the summer 2013 groundwater monitoring event is expected to be completed in August 2013 and a Data Report submitted approximately October 1, 2013.

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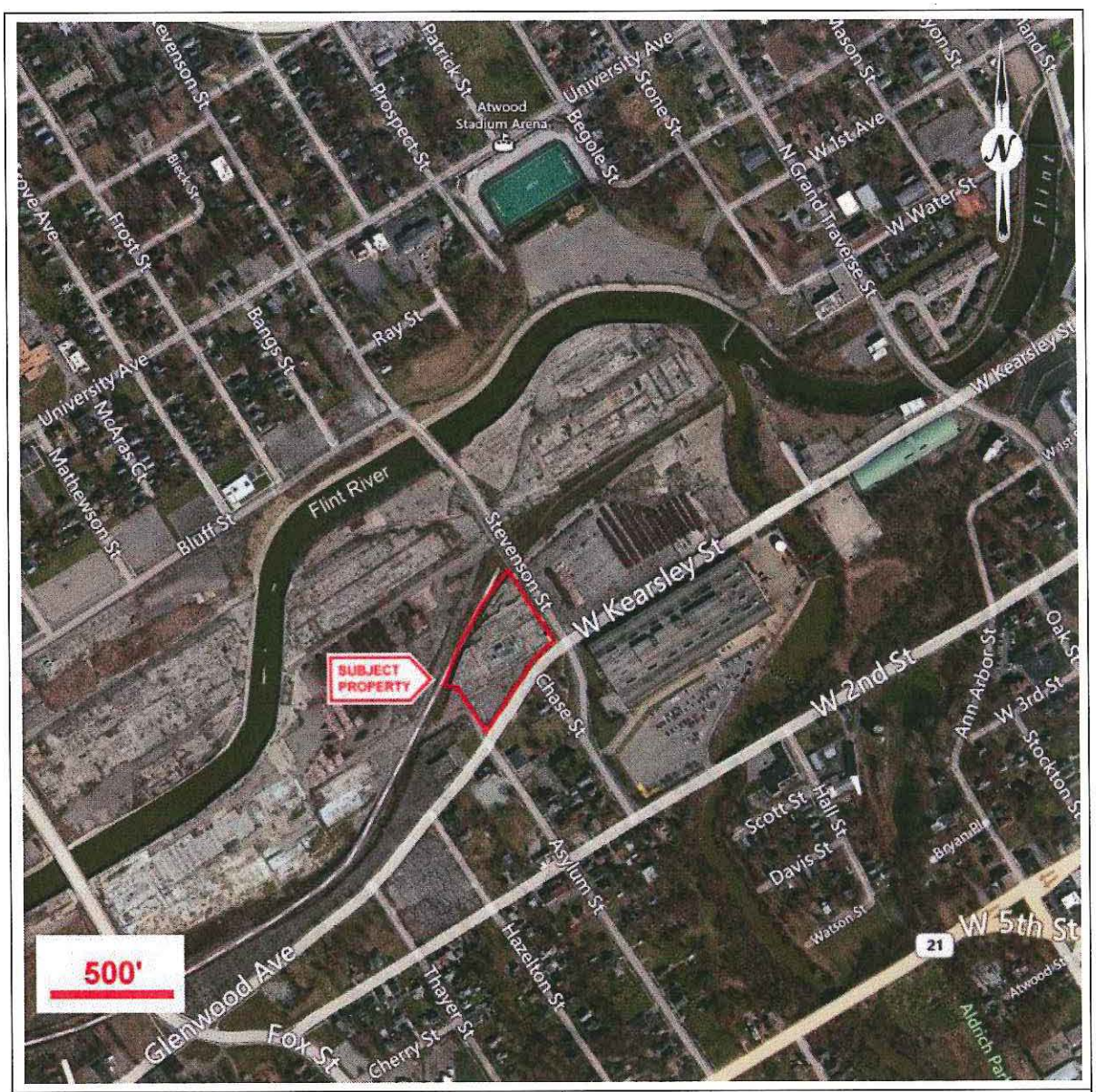
FIGURES

SITE LOCATION MAP

RACER Flint West

FIGURE	DATE	SCALE	PROJECT No.
1	2012	As Shown	11-4317



Source: United States Geological Survey | Property outline is approximate.

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RACER Flint West

Figure 2. Summary of GSI Exceedances in Groundwater

MW-108S (mg/L)				
	GSI	3/2012	12/2012	4/2013
Selenium	.005	NA	<.005	.007

MW-109S (mg/L)				
	GSI	3/2012	12/2012	4/2013
Copper	.020	NA	.028	NA
Vinyl Chloride	.013	NA	.028	.017

MW-103S (mg/L)				
	GSI	3/2012	12/2012	4/2013
Arsenic	0.01	.048	.055	.041
Phenathrene	.002	.013	<0.002	<0.002

MW-111S (mg/L)				
	GSI	3/2012	12/2012	4/2013
Arsenic	0.01	NA	.019	.002
Vinyl Chloride	.013	NA	.195	<.013

MW-110S (mg/L)				
	GSI	3/2012	12/2012	4/2013
Copper	.020	NA	.049	NA

MW-102S (mg/L)				
	GSI	3/2012	12/2012	4/2013
Selenium	.005	.006	.003	<0.005

MW-100S (mg/L)				
	GSI	3/2012	12/2012	4/2013
Selenium	.005	.006	Dry	<0.005

MW-101S (mg/L)				
	GSI	3/2012	12/2012	4/2013
Selenium	.005	.006	.003	<0.005
Mercury	.0000013	.0002	ND	<0.0001

MW-105S (mg/L)				
	GSI	3/2012	12/2012	4/2013
Selenium	.005	NA	.010	.007

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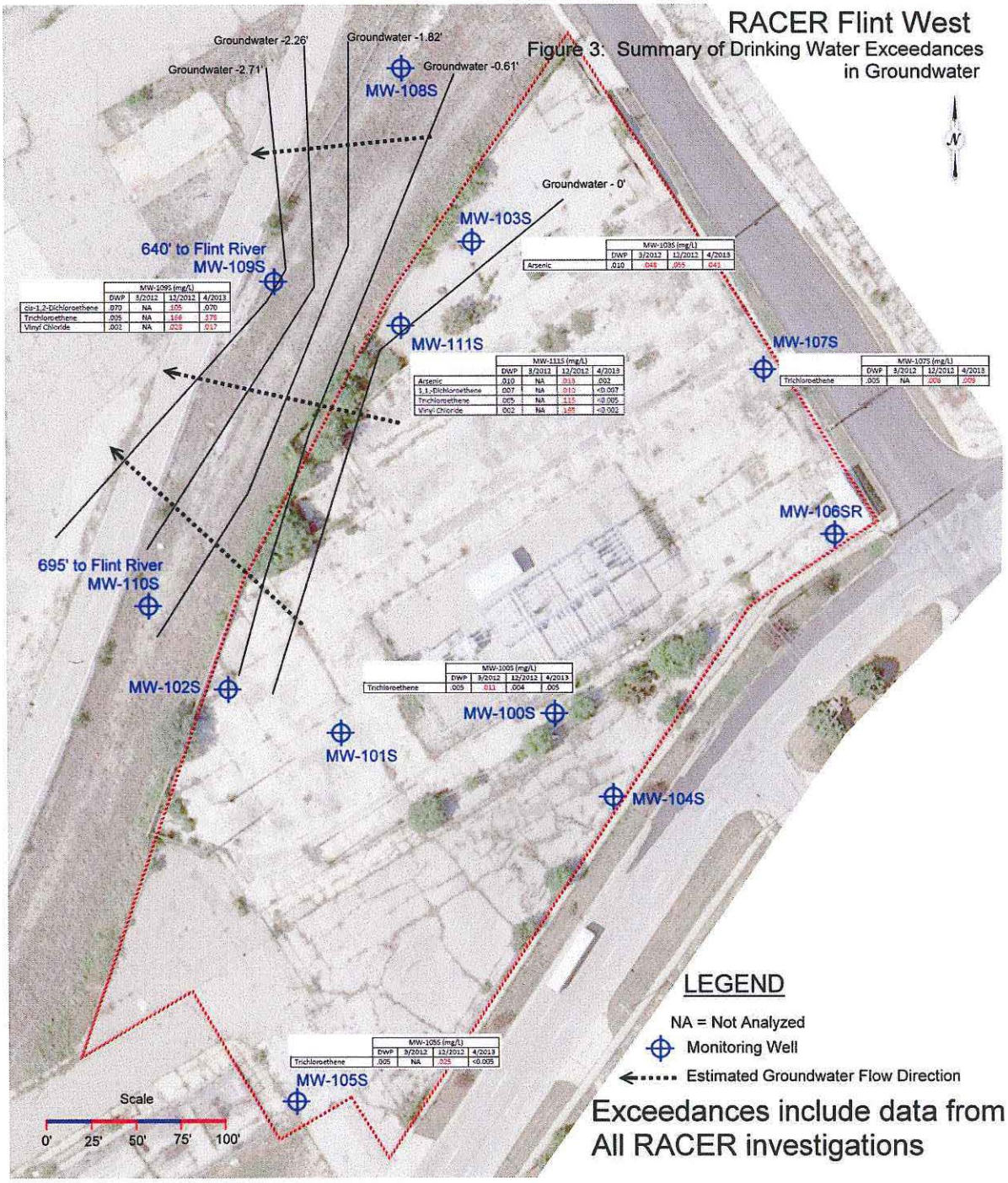
Figure 3: Summary of Drinking Water Exceedances in Groundwater



MW-109S (mg/L)	DWP	3/2012	12/2012	4/2013
cis-1,2-Dichloroethene	.070	NA	.155	.070
Trichloroethene	.005	NA	.166	.176
Vinyl Chloride	.002	NA	.029	.017

MW-103S (mg/L)	DWP	3/2012	12/2012	4/2013
Arsenic	.010	.048	.055	.041

MW-111S (mg/L)	DWP	3/2012	12/2012	4/2013
Arsenic	.010	NA	.013	.002
1,1,-Dichloroethene	.007	NA	.010	<0.007
Trichloroethene	.005	NA	.115	<0.005
Vinyl Chloride	.002	NA	.105	<0.002

MW-107S (mg/L)	DWP	3/2012	12/2012	4/2013
Trichloroethene	.005	NA	.009	.009

MW-100S (mg/L)	DWP	3/2012	12/2012	4/2013
Trichloroethene	.005	.011	.004	.005

MW-105S (mg/L)	DWP	3/2012	12/2012	4/2013
Trichloroethene	.005	NA	.025	<0.005

LEGEND

NA = Not Analyzed

Monitoring Well

Estimated Groundwater Flow Direction

Exceedances include data from All RACER investigations

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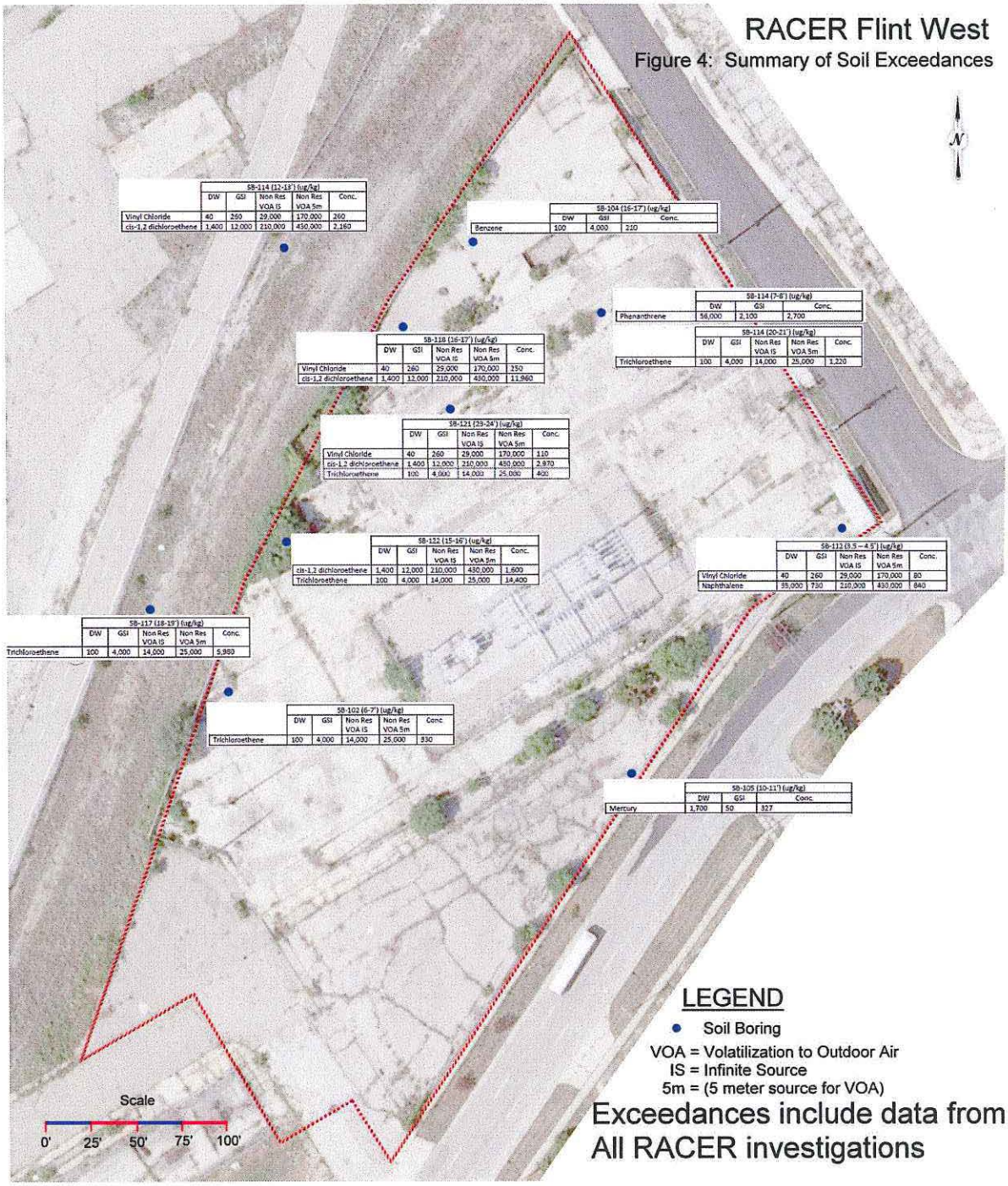
Figure 4: Summary of Soil Exceedances



SB-114 (12-13') (ug/kg)	DW	GSI	Non Res VOA IS	Non Res VOA 5m	Conc.
Vinyl Chloride	40	260	29,000	170,000	260
cis-1,2 dichloroethene	1,400	12,000	210,000	430,000	2,160

SB-104 (16-17') (ug/kg)	DW	GSI	Conc.
Benzene	100	4,000	210

SB-114 (7-8') (ug/kg)	DW	GSI	Conc.
Phenanthrene	56,000	2,100	2,700

SB-114 (20-21') (ug/kg)	DW	GSI	Non Res VOA IS	Non Res VOA 5m	Conc.
Trichloroethene	100	4,000	14,000	25,000	1,220

SB-118 (16-17') (ug/kg)	DW	GSI	Non Res VOA IS	Non Res VOA 5m	Conc.
Vinyl Chloride	40	260	29,000	170,000	250
cis-1,2 dichloroethene	1,400	12,000	210,000	430,000	11,960

SB-121 (23-24') (ug/kg)	DW	GSI	Non Res VOA IS	Non Res VOA 5m	Conc.
Vinyl Chloride	40	260	29,000	170,000	110
cis-1,2 dichloroethene	1,400	12,000	210,000	430,000	2,970
Trichloroethene	100	4,000	14,000	25,000	400

SB-122 (15-16') (ug/kg)	DW	GSI	Non Res VOA IS	Non Res VOA 5m	Conc.
cis-1,2 dichloroethene	1,400	12,000	210,000	430,000	1,600
Trichloroethene	100	4,000	14,000	25,000	14,400

SB-112 (3.5 – 4.5') (ug/kg)	DW	GSI	Non Res VOA IS	Non Res VOA 5m	Conc.
Vinyl Chloride	40	260	29,000	170,000	80
Naphthalene	35,000	730	210,000	430,000	840

SB-117 (18-19') (ug/kg)	DW	GSI	Non Res VOA IS	Non Res VOA 5m	Conc.
Trichloroethene	100	4,000	14,000	25,000	5,980

SB-102 (6-7') (ug/kg)	DW	GSI	Non Res VOA IS	Non Res VOA 5m	Conc
Trichloroethene	100	4,000	14,000	25,000	330

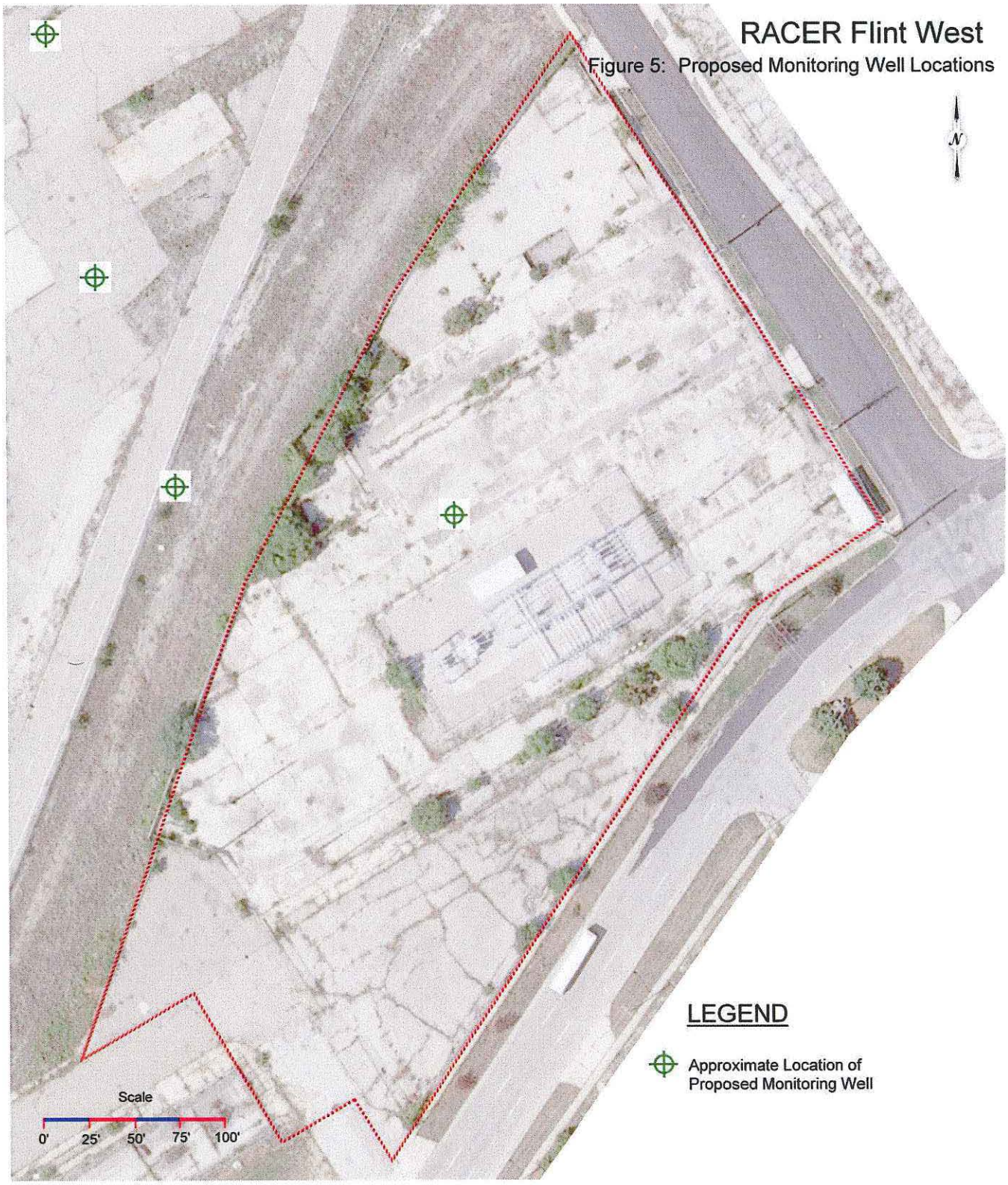
SB-105 (10-11') (ug/kg)	DW	GSI	Conc
Mercury	1,700	50	327

LEGEND

- Soil Boring

VOA = Volatilization to Outdoor Air
IS = Infinite Source
5m = (5 meter source for VOA)

Exceedances include data from All RACER investigations


RACER Flint West
Figure 5: Proposed Monitoring Well Locations
N
LEGEND
Approximate Location of Proposed Monitoring Well
Scale
0'
25'
50'
75'
100'

Attachment # 1: Soil Boring Logs

Applied *Eco*Systems
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-100 (03/07/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/07/2012

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Concrete			HA	0.0
2	***GW*** Sand, medium to fine; well sorted; dry; brown (7.5YR4/4). NOTE: Appears to be fill material.				0.0
					0.0
4					0.0
	MH Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; fine grained lenses of sand interbedded throughout the silt and sand, ranging between 1 and 4 inches thick; dry; brownish yellow (10YR6/6).			42/60	0.0
6			(05-06)		0.0
2					0.0
			(07-08)		0.0
8	***MH*** Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; fine grained lenses of sand interbedded throughout the silt and sand, ranging between 1 and 4 inches thick; moist, brownish yellow (10YR6/6).				0.0
					0.0
10				48/60	0.0
					0.0
12					0.0
4					0.0
14					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 11:18
Drill End: 12:37
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-100 (03/07/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/07/2012

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)
Depth	Description	USCS Classification	Depth	Recovery (inch)	0 10 20 30 40 50
	MH Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; fine grained lenses of sand interbedded throughout the silt and sand, ranging between 1 and 4 inches thick; saturated, brownish yellow (10YR6/6).			54/60	0.0
16					0.0
					0.0
18					0.0
					0.0
20 (6)				54/60	0.0
					0.0
22	***MH*** Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; fine grained lenses of sand interbedded throughout the silt and sand, ranging between 1 and 4 inches thick; saturated, gray (5Y6/1)				0.0
					0.0
24	***CL*** Clay, some silt, medium plasticity; dry; gray (5Y5/1).				0.0
					0.0
26 (8)	End of Log				
28					

Drill Start: 11:18
Drill End: 12:37
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

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Log of Borehole: SB-101 (03/08/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/08/2012

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Concrete				0.0
	GW Sand, fine to medium; well sorted; soft; dry; brown (7.5YR4/4). NOTE: brick, concrete, and large stones; rounded throughout.			HA	0.0
2					0.0
					0.0
4					0.0
				36/60	0.0
6 / 2					0.0
					0.0
8					0.0
					0.0
10	***GP*** Sand, fine to coarse; rounded; loose; poorly sorted; brown (7.5YR4/4)			42/60	0.0
			(11-12)		0.0
12					0.0
4					0.0
14					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 10:40
Drill End: 12:01
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-101 (03/08/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/08/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
	MH Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; fine grained lenses of sand interbedded throughout the silt and sand, ranging between 1 and 4 inches thick; dry; brownish yellow (10YR6/6).		(14-15)	54/60	0.0, 0.0, 0.0
16	***MH*** Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; fine grained lenses of sand interbedded throughout the silt and sand, ranging between 1 and 4 inches thick; saturated, brownish yellow (10YR6/6).				0.0, 0.0, 0.0
18					
6					
20	***CL*** Clay, some silt, medium plasticity; dry; gray (5Y5/1).			43/48	0.0, 0.0, 0.0
22					
24	End of Log				
26					
8					
28					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 10:40
Drill End: 12:01
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

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Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-102 (03/08/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/08/2012

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Concrete				0.0
	MH Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; fine grained lenses of sand interbedded throughout the silt and sand, ranging between 1 and 2 inches thick; dry; brownish yellow (10YR6/6).			HA	0.0
2					0.0
					0.0
4					0.0
					0.0
				24/60	0.0
6 / 2			(06-07)		0.0
8					0.0
					0.0
10				36/60	0.0
					0.0
12 / 4			(12-13)		0.0
14					0.0

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 13:58
Drill End: 15:18
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-102 (03/08/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/08/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
	GP Sand, fine to coarse; rounded; poorly sorted; trace silt; moist; brown (7.5YR4/4)			54/60	0.0, 0.0
16	***MH*** Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; fine grained lenses of sand interbedded throughout the silt and sand, ranging between 1 and 2 inches thick; saturated; brownish yellow (10YR6/6).				0.0, 0.0, 0.0
18					
6					0.0
20	***GW*** Sand, fine to medium; rounded; loose; well sorted; saturated; very pale brown (10YR7/3).			42/48	0.0, 0.0, 0.0
22					
24	***Obstruction*** Refusal; Rock or Boulder				
	End of Log				
26					
8					
28					

Photoionization Detector (PID): 0 10 20 30 40 50

Drill Start: 13:58
Drill End: 15:18
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-103 (03/08/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/08/2012

SUBSURFACE PROFILE / SAMPLE

Depth (ft)	Depth (m)	Description	USCS Classification	Sample Depth	Recovery (inch)	Photoionization Detector (PID)
0	0	Ground Surface				
		Concrete				0.0
		GP Sand, fine to coarse; rounded; poorly sorted; trace silt; dry; brown (7.5YR4/4). NOTE: brick, concrete, and large stones throughout.			HA	0.0
2						0.0
						0.0
4						0.0
		MH Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; gray (5Y5/1).			6/60	0.0
6	2					0.0
						0.0
8						0.0
				(09-10)		0.0
10		***MH*** Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; discolored/black (5Y2.5/1).			48/60	0.0
						0.0
12				(12-13)		0.0
	4					0.0
14						

Drill Start: 16:06
Drill End: 16:51
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems
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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-103 (03/08/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/08/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
16	***MH*** Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; fine grained lenses of sand interbedded throughout the silt and sand, ranging between 1 and 3 inches thick; moist; gray (10YR6/1).			54/60	0.0, 0.0, 0.0
18	***MH*** Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; fine grained lenses of sand interbedded throughout the silt and sand, ranging between 1 and 3 inches thick; saturated; brownish yellow (10YR6/6).				0.0, 0.0, 0.0
20 (6)	***CL*** Clay, some silt, medium plasticity; dry; gray (5Y5/1).			33/36	0.0, 0.0, 0.0, 0.0
22					
24	End of Log				
26 (8)					
28					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 16:06
Drill End: 16:51
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-104 (03/13/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/13/2012

SUBSURFACE PROFILE

Depth (ft)	Depth (m)	Description	USCS Classification
0	0	Ground Surface	
		Concrete	
		GP Sand, fine to coarse; rounded; poorly sorted; trace silt; dry; dark yellowish brown (10YR3/6).	
2		***MH*** Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; dry; light olive brown (2.5Y5/4).	
4		***GW*** Sand, fine to medium; well sorted; dry; pale yellow (2.5Y7/3). NOTE: Fill Material	
6	2	***MH*** Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; dry; light olive brown (2.5Y5/4)	
8		***GW*** Sand, fine to medium; well sorted; moist; light olive brown (2.5Y5/4). NOTE: Fill Material	
10			
12	4	***GP*** Sand, fine to medium; rounded; well sorted; trace silt; saturated; dark gray (2.5Y4/1). NOTE: Strong solvent/petroleum odor	
14			

SAMPLE

Depth	Recovery (inch)
	HA
(07-08)	48/60
	42/60

Photoionization Detector (PID)

0 10 20 30 40 50

0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 6.8, 5.6, 5.4

Drill Start: 12:15
Drill End: 14:18
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-104 (03/13/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/13/2012

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)
Depth	Description	USCS Classification	Depth	Recovery (inch)	0 10 20 30 40 50
					4.1
					10.3
16	***CL*** Clay, some silt, medium plasticity; dry; light olive gray (5Y6/2). NOTE: Odor indicated.		(16-17)	54/60	11.6
	Rock				4.1
18	***CL*** Clay; trace sand, fine to coarse; poorly sorted; nonplastic; hard; light olive gray (5Y6/2). NOTE: Odor indicated.				3.6
6					3.1
20					0.0
					0.0
22	End of Log				
24					
26					
8					
28					

Drill Start: 12:15
Drill End: 14:18
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-105 (12/04/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/04/2012

SUBSURFACE PROFILE / SAMPLE

Depth (ft)	Depth (m)	Description	USCS Classification	Sample Depth	Recovery (inch)	Photoionization Detector (PID)
0	0	Ground Surface				
		Asphalt/Concrete				0.0
					52/60	0.0
2		***GW*** Asphalt/Gravel mix; dry; well sorted; black (5Y2.5/1)				0.0
						0.0
4		***ML*** Clay and Sand, medium plasticity; dry; brown (2.5Y5/3)				0.0
					52/60	0.0
6	2					0.0
				(07-08)		0.0
8		***GP*** Sand, medium to fine; trace silt; rounded; poorly sorted; dry; brown (2.5Y5/3)				0.0
10					60/60	0.0
				(10-11)		0.0
		CL Silt and Clay, fine, trace sand; rapid dilatancy; medium stiff; dry; gray (5Y5/1)				0.0
12						0.0
	4					0.0
14						

Drill Start: 13:03
Drill End: 14:02
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-105 (12/04/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/04/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID) (0 10 20 30 40 50)
	MH Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; dry; gray (5Y5/1)			60/60	0.0
16	***GP*** Sand, fine; trace silt; rounded; poorly sorted; saturated; brown (2.5Y5/3)				0.0
					0.0
18					0.0
					0.0
6					0.0
20				60/60	
					0.0
					0.0
22					
	GP Sand, fine; trace silt; rounded; poorly sorted; saturated; gray (5Y5/1)				0.0
			(23-24)		0.0
24	***CL*** Clay, some silt; medium plasticity; dry; gray (5Y5/1)				0.0
	End of Log				
26					
8					
28					

Drill Start: 13:03
Drill End: 14:02
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-106 (12/04/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/04/2012

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Asphalt/Concrete				0.0
	Void Void due to obstruction; concrete debris			12/60	0.0
2					0.0
					0.0
4					0.0
				60/60	
	ML Clay and Sand, medium plasticity; dry; brown (2.5Y5/3)				0.0
6 / 2					0.0
					0.0
8					
	MH Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; moist; brown (2.5Y5/3)		(08-09)		0.0
10					0.0
	GP Sand, fine; trace silt; rounded; poorly sorted; dry; brown (2.5Y5/3)			60/60	0.0
					0.0
12	***CL*** Clay, some silt; medium plasticity; dry; brown (2.5Y5/3)				0.0
4			(13-14)		0.0
14					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 14:13
Drill End: 15:01
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-106 (12/04/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/04/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
	GP Sand, medium to fine; trace silt; rounded; poorly sorted; dry; brown (2.5Y5/3)			60/60	0.0, 0.0
16	***GP*** Sand, medium to fine; trace silt; rounded; poorly sorted; saturated; brown (2.5Y5/3)				0.0, 0.0
18	***MH*** Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; saturated; dry; gray (5Y5/1)				0.0, 0.0
20 (6)				60/60	0.0, 0.0
22					0.0, 0.0
24	***CL*** Clay, some silt; medium plasticity; dry; gray (5Y5/1)		(24-25)		0.0, 0.0
	End of Log				
26 (8)					
28					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 14:13
Drill End: 15:01
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-107 (12/04/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/04/2012

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Concrete/Asphalt				0.0
	GW Asphalt/Gravel mix			52/60	0.0
2					0.0
	ML Clay and Sand, medium plasticity; dry; brown (2.5Y5/3)				0.0
4					0.0
				48/60	0.0
6 / 2			(06-07)		0.0
	GP Sand, fine; rounded; poorly sorted; moist; brown (2.5Y5/3)				0.0
8					0.0
	CL Clay, some silt; medium plasticity; dry; brown (2.5Y5/3)				0.0
10				60/60	0.0
12					0.0
					0.0
4			(13-14)		0.0
14					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 15:11
Drill End: 15:55
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-107 (12/04/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/04/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
					0.0
	MH Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; saturated; brown (2.5Y5/3)			108/60	0.0
16					0.0
			(17-18)		0.0
18	***CL*** Clay, some silt; medium plasticity; dry; gray (5Y5/1)				0.0
					0.0
20 (6)					0.0
					0.0
22					0.0
24	End of Log				0.0
26 (8)					
28					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 15:11
Drill End: 15:55
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-108 (12/04/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/04/2012

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Concrete/Asphalt				0.0
				36/60	
	GP Sand, fine; rounded; poorly sorted; dry; brown; (2.5Y6/3) NOTE: Large pieces of brick were indicated from 7-8 feet below grade.				0.0
2					0.0
4					0.0
					0.0
				36/60	0.0
6 / 2			(06-07)		0.0
8					0.0
					0.0
10				48/60	0.0
12 / 4					0.0
					0.0
14					0.0

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 16:10
Drill End: 16:51
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-108 (12/04/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/04/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
	ML Clay and Sand, medium plasticity; dry; brown (2.5Y5/3)		(14-15)		0.0
				84/60	0.0
16	***GP*** Sand, fine; rounded; poorly sorted; saturated; brown (2.5Y5/3)				0.0
18	***CL*** Clay, some silt; medium plasticity; dry; gray (2.5Y5/2)				0.0
					0.0
6 20					0.0
			(20-21)		0.0
22	End of Log				0.0
24					
26 8					
28					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 16:10
Drill End: 16:51
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-109 (12/05/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/05/2012

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Concrete/Asphalt				0.0
	ML Clay and Sand, medium plasticity; dry; brown (2.5Y6/4)			100/60	0.0
2					0.0
					0.0
4			(04-05)		0.0
	GP Sand, medium to fine; clay seams 1-3 inches thick throughout; poorly sorted; dry; brown (2.5Y6/4)				0.0
6 / 2					0.0
					0.0
8					0.0
					0.0
10				52/60	0.0
					0.0
12			(12-13)		0.0
4					0.0
14					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 9:58
Drill End: 10:51
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-109 (12/05/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/05/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
	GP Sand, medium to fine; clay seams 1-3 inches thick throughout; poorly sorted; saturated; brown (2.5Y6/4)			120/60	0.0, 0.0, 0.0, 0.0
	CL Clay, some silt; trace sand; medium plasticity; dry; gray (2.5Y4/1)		(18-19)		0.0, 0.0, 0.0, 0.0, 0.0
	End of Log				

Depth scale: 16, 18, 20, 22, 24, 26, 28; 6, 8

Photoionization Detector (PID) scale: 0, 10, 20, 30, 40, 50

Drill Start: 9:58
Drill End: 10:51
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-110 (12/05/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/05/2012

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Concrete/Asphalt				0.0
	GP Sand, medium to fine; trace gravel; rounded; poorly sorted; dry; brown (2.5Y5/3)			36/60	0.0
2					0.0
					0.0
4					0.0
				36/60	0.0
6 / 2					0.0
					0.0
8					0.0
					0.0
10				48/60	0.0
					0.0
12					0.0
	CL Clay, some silt; medium plasticity; dry; brown (2.5Y5/3)		(12-13)		0.0
4 / 14					0.0

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 12:01
Drill End: 13:10
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-110 (12/05/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/05/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
	GP Sand, fine; rounded; poorly sorted; moist to saturated; brown (2.5Y5/3)		(15-16)	60/60	0.0, 0.0
16	***CL*** Clay, some silt; medium plasticity; dry; brown (2.5Y5/3)				0.0
18	***MH*** Silt and Sand, fine; rapid dilatancy; medium stiff; saturated; brown (2.5Y5/3)				0.0, 0.0, 0.0
6, 20				60/60	0.0, 0.0, 0.0, 0.0
22					0.0
24	***CL*** Clay, some silt; some sand seams 6 inches thick in areas; medium plasticity; dry; gray (2.5Y5/1)		(24-25)		0.0, 0.0
26, 8	End of Log				
28					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 12:01
Drill End: 13:10
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-111 (12/05/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/05/2012

SUBSURFACE PROFILE / SAMPLE

Depth (ft / m)	Description	USCS Classification	Sample Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Concrete				0.0
				12/60	
2	***GP*** Sand, medium to fine; rounded; poorly sorted; dry; brown (2.5Y5/3)				0.0
					0.0
4					0.0
					0.0
				48/60	
6 / 2					0.0
					0.0
8					0.0
					0.0
10	***GP*** Sand, medium to fine; rounded; poorly sorted; saturated; brown (2.5Y5/3)			60/60	0.0
	CL Clay, some silt; medium plasticity; dry; brown (2.5Y5/3)		(11-12)		0.0
12					0.0
4			(13-14)		>50.0
14					

Drill Start: 14:48
Drill End: 16:02
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-111 (12/05/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/05/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
16	***GP*** Sand, fine; trace silt; rounded; poorly sorted; saturated; brown (2.5Y5/3) NOTE: A petroleum odor was indicated			60/60	>50.0, 47.1, 43.3
18					15.6, 2.8
20 (6)				60/60	0.0, 0.0, 0.0
22	***GP*** Sand, fine; trace silt; rounded; poorly sorted; saturated; gray (2.5Y5/1) NOTE: No odor indicated.				0.0, 0.0
24					0.0
26 (8)	***CL*** Clay, some silt; medium plasticity; dry; gray (2.5Y5/1)		(24.5-25.5)		0.0
	End of Log				
28					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 14:48
Drill End: 16:02
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

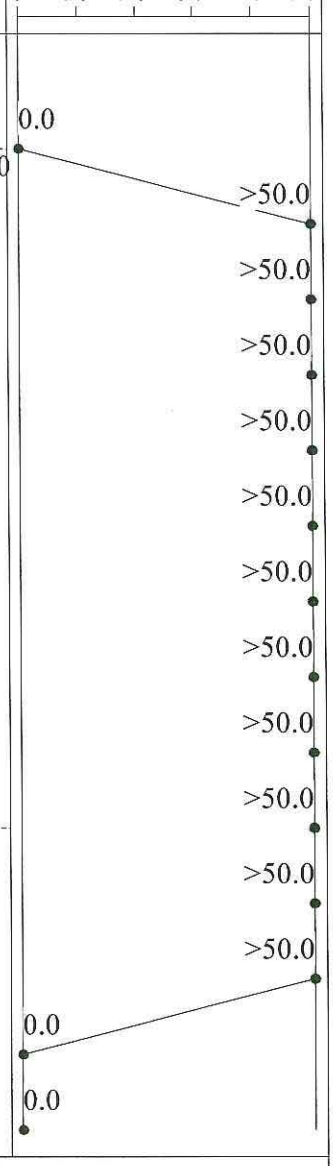
Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-112 (12/06/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/06/2012

SUBSURFACE PROFILE / SAMPLE

Depth (ft)	Depth (m)	Description	USCS Classification	Sample Depth	Recovery (inch)
0	0	Ground Surface			
		Concrete			
2		***GP*** Sand, medium to fine; trace gravel; rounded; poorly sorted; dry; brown (2.5Y5/3)			100/60
4		***GP*** Sand, medium to fine; rounded; poorly sorted; dry; black (5Y2.5/1)		(3.5-4.5)	
6	2	***GP*** Sand, fine; rounded; poorly sorted; dry; brown (2.5Y5/3) NOTE: A petroleum odor was indicated			
8				(8.5-9.5)	
10		***GP*** Sand, fine; rounded; poorly sorted; saturated; brown (2.5Y5/3)			0/60
12	4	***Void*** Void; obstruction NOTE: Tubes came up empty of soil and full of water.			
14					



Drill Start: 11:26
Drill End: 12:27
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-112 (12/06/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/06/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
16				0/60	0.0, 0.0
18					0.0, 0.0
20 (6)				12/60	0.0, 0.0
22					0.0, 0.0
24	***GP*** Sand, fine; rounded; trace gravel; poorly sorted; dry; gray (2.5Y5/1) NOTES: A petroleum odor was indicated.		(24-25)		0.0, 0.0
26 (8)	Clay was not reached at the bottom of the boring due to obstructions and large amounts of water with odor. It was decided not to drill deeper in fear of penetrating a deeper aquifer.				
28	End of Log				

Drill Start: 11:26
Drill End: 12:27
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-113 (12/06/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/06/2012

SUBSURFACE PROFILE / SAMPLE

Depth (ft)	Depth (m)	Description	USCS Classification	Sample Depth	Recovery (inch)	Photoionization Detector (PID)
0	0	Ground Surface				
		Concrete				0.0
					60/60	0.0
2		***GP*** Sand, medium to coarse; rounded; poorly sorted; dry; gray (2.5Y5/1)				0.0
						>50.0
4		***CL*** Clay, some silt; medium plasticity; dry; gray (2.5Y5/1) NOTE: A petroluem odor was indicated.		(04-06)		>50.0
						21.3
6	2	***Void*** Void; no recovery due to an obstruction				0.0
8						0.0
						0.0
10					120/60	0.0
		GP Sand, fine; rounded; poorly sorted; dry; brown (2.5Y5/3)		(10-11)		0.0
12						0.0
	4					0.0
14						0.0

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 14:56
Drill End: 16:01
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-113 (12/06/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/06/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
16					0.0
					0.0
	GP Sand, fine; rounded; poorly sorted; saturated; brown (2.5Y5/3)				0.0
18					0.0
					0.0
6					0.0
20				60/60	
					0.0
					0.0
22					
	CL Clay, some silt; medium plasticity; dry; gray (2.5Y5/1)				0.0
			(23-24)		0.0
24					
	End of Log				0.0
26					
8					
28					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 14:56
Drill End: 16:01
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-114 (12/10/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/10/2012

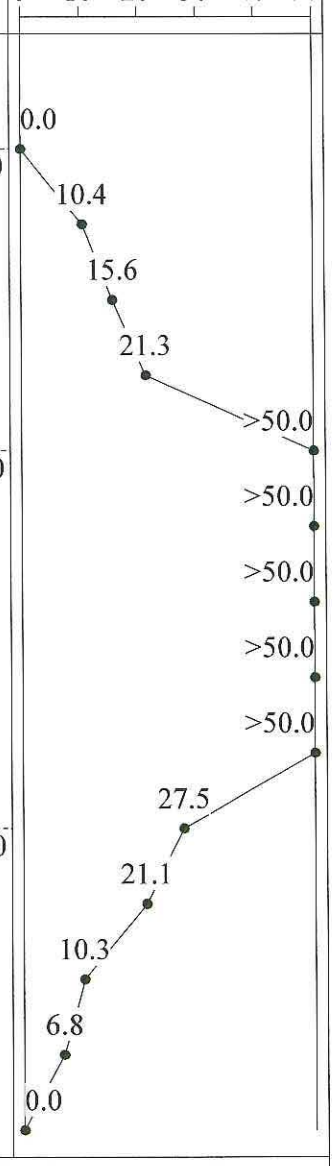
SUBSURFACE PROFILE

Depth (ft)	Depth (m)	Description	USCS Classification
0	0	Ground Surface	
		Concrete	
		GP Sand, medium to fine; trace gravel; rounded; poorly sorted; dry; moist; brown (2.5Y5/3)	
		ML Clay and Sand, medium plasticity; dry; gray (5Y5/2)	
		GP Sand, fine; rounded; poorly sorted; dry; gray (5Y4/1)	

SAMPLE

Depth	Recovery (inch)
	12/60
(04-05)	52/60
(07-08)	52/60

Photoionization Detector (PID)



Drill Start: 10:12
Drill End: 11:13
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-114 (12/10/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/10/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
	GP Sand, fine; rounded; poorly sorted; moist; gray (5Y4/1)			96/60	0.0
16	***GP*** Sand, fine; rounded; poorly sorted; saturated; gray (5Y4/1)				0.0, 0.0
18					0.0, 0.0
6, 20	***CL*** Clay, some silt; medium plasticity; dry; gray (5Y4/1)		(20-21)		0.0, 0.0, 0.0
22	End of Log				0.0
24					0.0, 0.0
26, 8, 28					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 10:12
Drill End: 11:13
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-115 (12/10/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/10/2012

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Topsoil				0.0
	GP Sand, medium to fine; trace gravel; rounded; poorly sorted; dry; moist; brown (2.5Y5/3)			48/60	0.0
2					0.0
					0.0
4					0.0
				56/60	0.0
6 / 2			(06-07)		0.0
	GP Sand, medium to fine; trace gravel and rock; rounded; poorly sorted; dry; brown (2.5Y5/3)				0.0
8					0.0
	GP Sand, some clay, medium to fine; rounded; poorly sorted; dry; gray (5Y4/1)			96/60	0.0
10					0.0
12					0.0
4			(13-14)		0.0
14					

Drill Start: 11:46
Drill End: 13:16
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-115 (12/10/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/10/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
	GP Sand, some clay, medium to fine; rounded; poorly sorted; saturated; gray (5Y4/1)				0.0, 0.0, 0.0
16					
	CL Clay, some sand; fine; poorly sorted; medium plasticity; dry; gray (5Y4/1)		(17-18)		0.0
18					
	End of Log				0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0
6					
20					
22					
24					
26					
8					
28					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 11:46
Drill End: 13:16
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-116 (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Topsoil				
	GP Sand, medium to fine; trace gravel; rounded; poorly sorted; dry; brown (2.5Y5/3)			48/60	0.0, 0.0, 0.0, 0.0
2					
4	***CL*** Clay, some silt and sand; fine; medium plasticity; rapid dilatancy; dry; brown (2.5Y5/4)		(04-05)		0.0
	GP Sand, fine; rounded; poorly sorted; dry; brown (2.5Y5/4)			52/60	0.0, 0.0, 0.0
6 / 2					
	GP Sand, some clay, fine; rounded; poorly sorted; medium plasticity; dry; brown (2.5Y5/4)		(07-08)		0.0
8	***GP*** Sand, fine; rounded; poorly sorted; moist to saturated; brown (2.5Y5/4)				0.0

Drill Start: 9:42
Drill End: 10:25
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-116 (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
				36/60	0.0
11	***MH*** Silt and Sand, fine; rapid dilatancy; saturated; gray (5Y5/1)				0.0
	CL Clay, some silt, medium plasticity; dry; gray (5Y5/1)				0.0
			(12-13)		0.0
13 – 4					0.0
	Rock Obstruction; rock or bedrock				0.0
	End of Log				0.0
15					0.0
					0.0
17					0.0
19					0.0

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 9:42
Drill End: 10:25
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-117 (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Topsoil				0.0
	GP Sand, fine; trace sand and gravel; rounded; poorly sorted; dry; black (5Y2.5/1)			48/60	0.0
2					0.0
					0.0
4					0.0
				60/60	0.0
6					0.0
2	***CL*** Clay, some sand; fine; poorly sorted: dry; gray (5Y5/1)		(06-07)		0.0
	GP Sand, fine; rounded; poorly sorted; moist at 10 feet below grade; gray (5Y5/1)				0.0
8					0.0
			(09-10)		0.0
10				60/60	0.0
	GP Sand, medium to fine; rounded; poorly sorted; saturated; brown (2.5Y5/4)				0.0
12					0.0
4					0.0
14					

Drill Start: 10:31
Drill End: 11:31
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-117 (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID) (0 10 20 30 40 50)
	MH Silt and Sand, fine; rapid dilatancy; saturated; gray (5Y5/1)			60/60	0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0
	CL Clay, some silt, medium plasticity; rapid dilatancy; dry; gray (5Y5/1)		(18-19)		
	Rock Obstruction; rock or bedrock				
	End of Log				

Depth scale: 16, 18, 20, 22, 24, 26, 28; 6, 8

Drill Start: 10:31
Drill End: 11:31
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-118 (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Topsoil with some gravel				0.0
	GP Sand, fine; rounded; poorly sorted; dry; brown (2.5Y5/4)			48/60	0.0
2					0.0
					0.0
4	***CL*** Clay, some sand; medium plasticity; fine; poorly sorted; dry; brown (2.5Y5/4)		(3.5-4.5)		0.0
	GP Sand, fine; rounded; poorly sorted; dry; brown (2.5Y5/4)			52/60	0.0
6 / 2					0.0
			(07-08)		0.0
8					0.0
					0.0
10	***GP*** Sand, fine; rounded; poorly sorted; moist; brown (2.5Y5/4)			60/60	0.0
	GP Sand, fine; rounded; poorly sorted; saturated; brown (2.5Y5/4)				0.0
12					0.0
4					0.0
14					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 15:20
Drill End: 16:15
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-118 (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
	MH Silt and Sand, fine; rapid dilatancy; saturated; gray (5Y5/1)			60/60	0.0
16	***CL*** Clay, some silt, medium plasticity; rapid dilatancy; dry; gray (5Y5/1)		(16-17)		0.0
18	End of Log				0.0
20 (6)					0.0
22					0.0
24					0.0
26 (8)					0.0
28					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 15:20
Drill End: 16:15
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-119 (04/30/2013)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 04/30/2013

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Concrete				
	GW Sand, medium to fine grained; poorly sorted; trace gravel; brown (7.5YR4/4)			108/120	0.0, 0.0, 0.0, 0.0, 0.0, 0.0
6 / 2	***GW*** Sand, fine grained; well sorted; trace clay; rapid dilatancy; medium stiff; gray (5Y5/1)		(10-11)	84/96	11.4, 21.7, 48.9, >50.0, >50.0, 12.8, 0.0, 0.0
14 / 4					

Drill Start: 13:24
Drill End: 14:18
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

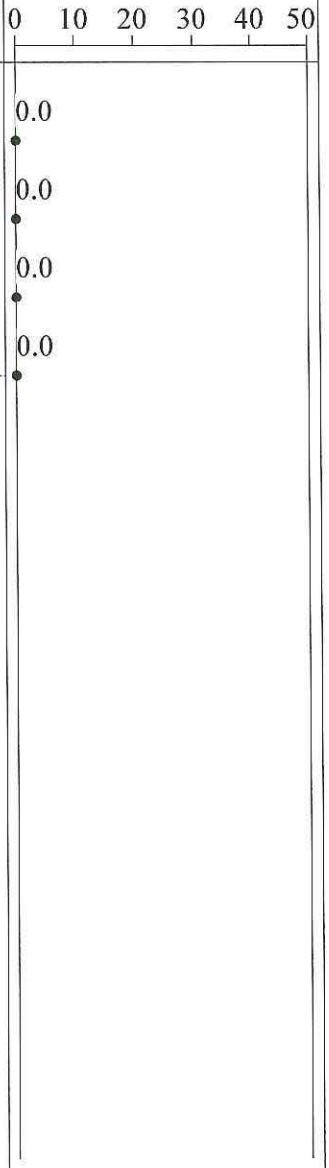
Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-119 (04/30/2013)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 04/30/2013

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
	CL Clay, some sand; medium plasticity; gray (5Y5/1)				0.0
16					0.0
					0.0
			(17-18)		0.0
18	End of Log				
6 (20)					
22					
24					
8 (26)					
28					



Drill Start: 13:24
Drill End: 14:18
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-120 (04/30/2013)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 04/30/2013

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Concrete				0.0
	CL Clay, some sand; medium plasticity; brown (2.5Y5/4)			96/120	0.0
2					0.0
					0.0
4					0.0
					0.0
6 / 2					0.0
					0.0
8					0.0
	CL Clay, some sand; medium plasticity; gray (5Y5/1)		(08-09)		0.0
10				84/96	0.0
	GW Sand, fine grained; well sorted; gray (5Y5/1); saturated with a petroleum odor				0.0
12					0.0
4					0.0
14					0.0

Drill Start: 14:39
Drill End: 15:01
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-120 (04/30/2013)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 04/30/2013

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
	CL Clay, some silt; medium plasticity; dry; gray (5Y5/1)				0.0, 0.0, 0.0
	GW Sand, fine grained; well sorted; gray (5Y5/1)				0.0
	End of Log				

Depth scale: 16, 18, 20, 22, 24, 26, 28; 6, 8

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 14:39
Drill End: 15:01
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

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G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-121 (04/30/2013)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 04/30/2013

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	0 10 20 30 40 50
0 / 0	Ground Surface				
	Concrete				
	CL Clay, some sand; medium plasticity; brown (2.5Y5/4)			96/120	0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 9.7, 11.3, 28.6, 45.1, >50.0, >50.0
				84/96	
	GW Sand, fine grained; well sorted; brown (2.5Y5/4)				

Depth scale: 0, 2, 4, 6, 8, 10, 12, 14 ft; 0, 2, 4 m

Drill Start: 15:11
Drill End: 15:49
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

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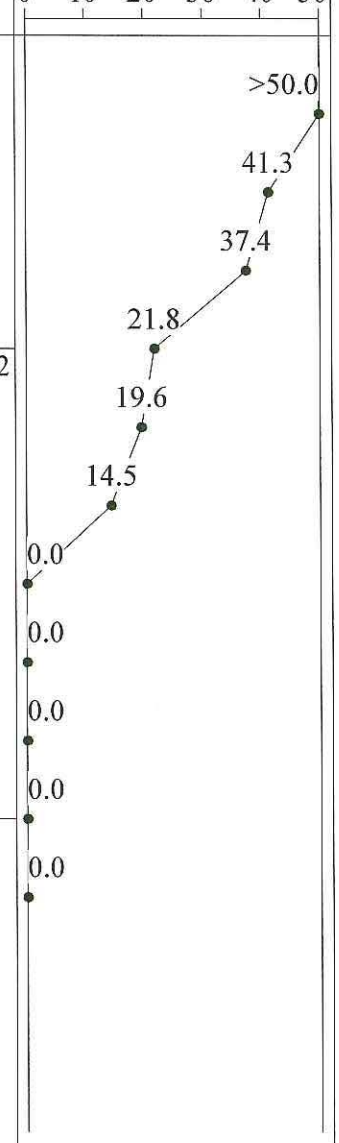
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-121 (04/30/2013)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 04/30/2013

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
	GW Sand, fine grained; well sorted; trace clay; strong petroleum odor; gray (5Y5/1)		(15-16)	72/72	
	CL Clay, some sand; medium plasticity; gray (5Y5/1)		(23-24)		
	End of Log				



Drill Start: 15:11
Drill End: 15:49
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

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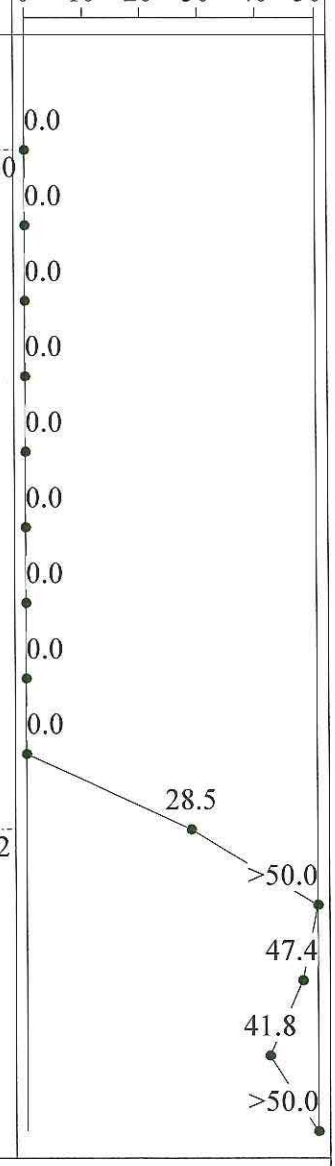
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-122 (04/30/2013)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 04/30/2013

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Topsoil				
	GW Sand, medium to coarse grained; poorly sorted; trace gravel; brown (2.5Y5/4)			84/120	
	CL Clay, some sand; medium plasticity; brown (2.5Y5/4)			62/72	
	GW Sand, fine to medium grained; well sorted; trace clay; saturated with a petroleum odor; brown (2.5Y5/4)				



Drill Start: 15:58
Drill End: 16:25
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-122 (04/30/2013)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 04/30/2013

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)
Depth	Description	USCS Classification	Depth	Recovery (inch)	0 10 20 30 40 50
					>50.0
			(15-16)		>50.0
16	***CL*** Clay, some sand; meduim plasticity; gray (5Y5/1)				
	End of Log				
18					
20 (6)					
22					
24					
26 (8)					
28					

Drill Start: 15:58
Drill End: 16:25
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

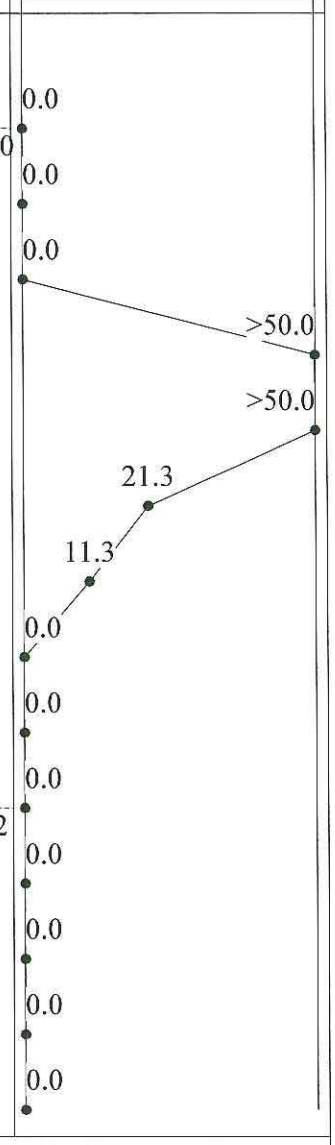
Log of Borehole: SB-123 (04/30/2013)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 04/30/2013

SUBSURFACE PROFILE / SAMPLE

Depth (ft / m)	Description	USCS Classification	Sample Depth	Recovery (inch)
0 / 0	Ground Surface			
	Topsoil			
	GW Sand, fine to medium grained; well sorted; brown (2.5Y5/4)			96/120
	CL Clay, some sand; medium plasticity; black (5Y6/1)			
	GW Sand, fine grained; well sorted; petroleum odor; gray (5Y5/1)		(5-6)	
	CL Clay, some sand; medium plasticity; black (5Y6/1)			
	GW Sand, fine grained; well sorted; brown (2.5Y5/4)			72/72
	GW Sand, fine grained; well sorted; trace clay; saturated; brown (2.5Y5/4)			

Photoionization Detector (PID) (0 10 20 30 40 50)



Drill Start: 16:31
Drill End: 17.11
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-123 (04/30/2013)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 04/30/2013

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID) 0 10 20 30 40 50
					0.0
					0.0
16	End of Log				
18					
20 (6)					
22					
24					
26 (8)					
28					

Drill Start: 16:31
Drill End: 17.11
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Attachment # 2: Monitoring Well Construction Logs

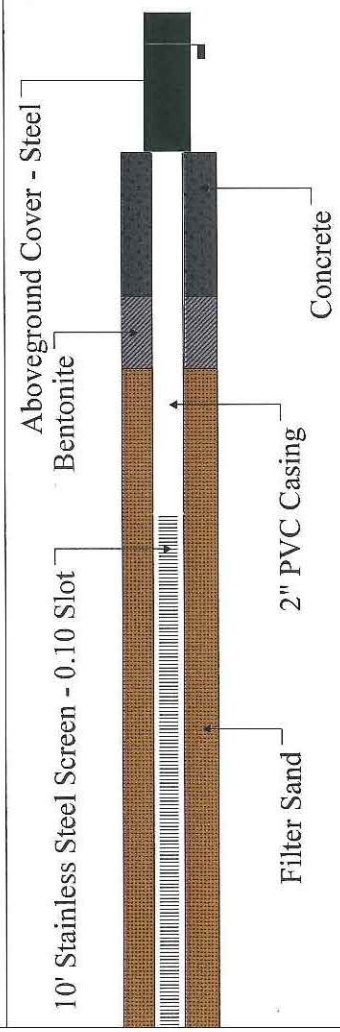
Applied *Eco*Systems
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-100S (03/07/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/07/2012

SUBSURFACE PROFILE

Depth (ft / m)	Description	USCS Classification	Photoionization Detector (PID) (0 10 20 30 40 50)	Well Completion Details
-3 / -1	Ground Surface			
	Concrete			
1 / 3	***GW*** Sand, medium to fine; well sorted; dry; brown (7.5YR4/4). NOTE: Appears to be fill material.			
5 / 7 (2)	***MH*** Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; fine grained lenses of sand interbedded throughout the silt and sand, ranging between 1 and 4 inches thick; dry; brownish yellow (10YR6/6).			
9 / 11	***MH*** Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; fine grained lenses of sand interbedded throughout the silt and sand, ranging between 1 and 4 inches thick; moist, brownish yellow (10YR6/6).			



Drill Start: 12:43
Drill End: 15:36
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-100S (03/07/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/07/2012

SUBSURFACE PROFILE

Depth	Description	USCS Classification	Photoionization Detector (PID) 0 10 20 30 40 50	Well Completion Details
13, 15, 17, 19, 21, 23, 25	***MH*** Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; fine grained lenses of sand interbedded throughout the silt and sand, ranging between 1 and 4 inches thick; saturated, brownish yellow (10YR6/6).			
5				
7	***MH*** Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; fine grained lenses of sand interbedded throughout the silt and sand, ranging between 1 and 4 inches thick; saturated, gray (5Y6/1)			
	CL Clay, some silt, medium plasticity; dry; gray (5Y5/1).			
	End of Log			

Drill Start: 12:43
Drill End: 15:36
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

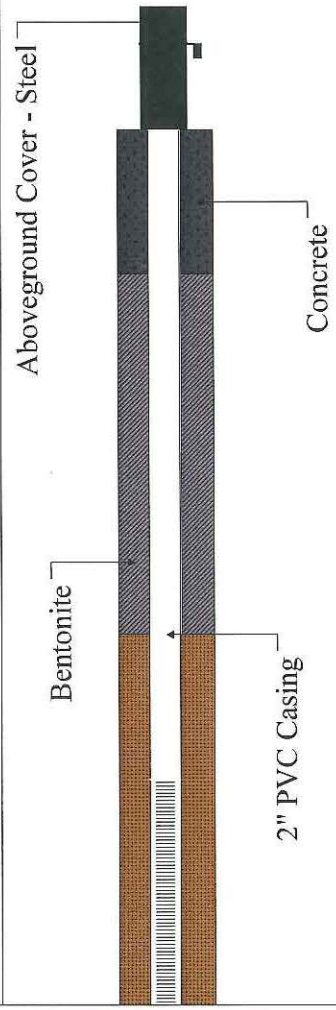
Applied *Eco*Systems
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-101S (03/08/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/08/2012

SUBSURFACE PROFILE

Depth (ft / m)	Description	USCS Classification	Photoionization Detector (PID) (0 10 20 30 40 50)	Well Completion Details
-3				
-1	Ground Surface			
	Concrete			
1	***GW*** Sand, fine to medium; well sorted; soft; dry; brown (7.5YR4/4). NOTE: brick, concrete, and large stones; rounded throughout.			
3				
5				
2 / 7				
9				
	GP Sand, fine to coarse; rounded; loose; poorly sorted; brown (7.5YR4/4)			
11				



Drill Start: 12:12
Drill End: 13:31
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-101S (03/08/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/08/2012

SUBSURFACE PROFILE

Depth	Description	USCS Classification	Photoionization Detector (PID) 0 10 20 30 40 50	Well Completion Details
13				
15	***MH*** Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; fine grained lenses of sand interbedded throughout the silt and sand, ranging between 1 and 4 inches thick; dry; brownish yellow (10YR6/6).			
5 / 17	***MH*** Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; fine grained lenses of sand interbedded throughout the silt and sand, ranging between 1 and 4 inches thick; saturated, brownish yellow (10YR6/6).			Filter Sand; 10' Stainless Steel Screen - 0.10 Slot
19				
21	***CL*** Clay, some silt, medium plasticity; dry; gray (5Y5/1).			
7 / 23				
25	End of Log			

Drill Start: 12:12
Drill End: 13:31
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

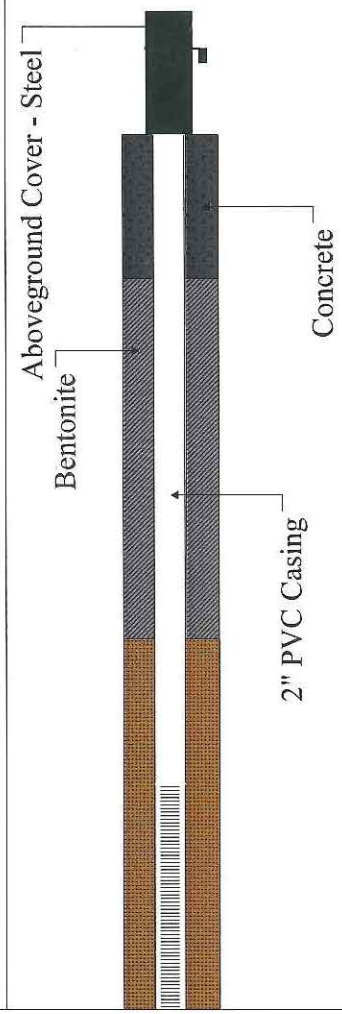
Applied *Eco*Systems
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-102S (03/08/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/08/2012

SUBSURFACE PROFILE

Depth (ft / m)	Description	USCS Classification	Photoionization Detector (PID) (0 10 20 30 40 50)	Well Completion Details
-3				
-1	Ground Surface			
	Concrete			
1	***MH*** Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; fine grained lenses of sand interbedded throughout the silt and sand, ranging between 1 and 2 inches thick; dry; brownish yellow (10YR6/6).			
3				
5				
2				
7				
9				
11				



Drill Start: 15:20
Drill End: 15:48
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

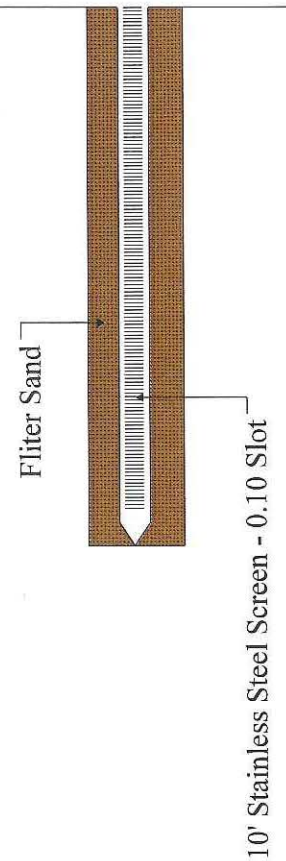
Applied *Eco*Systems
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-102S (03/08/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/08/2012

SUBSURFACE PROFILE

Depth	Description	USCS Classification	Photoionization Detector (PID) (0 10 20 30 40 50)	Well Completion Details
13				
15	***GP*** Sand, fine to coarse; rounded; poorly sorted; trace silt; moist; brown (7.5YR4/4)			
5	***MH*** Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; fine grained lenses of sand interbedded throughout the silt and sand, ranging between 1 and 2 inches thick; saturated; brownish yellow (10YR6/6).			
17				
19				
	GW Sand, fine to medium; rounded; loose; well sorted; saturated; very pale brown (10YR7/3).			
21				
23	7			
	Obstruction Refusal; Rock or Boulder			
25	End of Log			



Drill Start: 15:20
Drill End: 15:48
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-103S (03/13/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/13/2012

SUBSURFACE PROFILE

Depth (ft / m)	Description	USCS Classification	Photoionization Detector (PID) (0 10 20 30 40 50)	Well Completion Details
ft: -3, -1, 1, 3, 5, 7, 9, 11; m: 2	Ground Surface			Aboveground Cover - Steel; Concrete; Bentonite; 2" PVC Casing; 10" Stainless Steel Screen; Filter Sand
	Concrete			
	GP Sand, fine to coarse; rounded; poorly sorted; trace silt; dry; dark yellowish brown (10YR3/6).			
	MH Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; dry; light olive brown (2.5Y5/4).			
	GW Sand, fine to medium; well sorted; dry; pale yellow (2.5Y7/3). NOTE: Fill Material			
	MH Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; dry; light olive brown (2.5Y5/4)			
	GW Sand, fine to medium; well sorted; moist; light olive brown (2.5Y5/4). NOTE: Fill Material			

Drill Start: 14:25
Drill End: 15:50
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-103S (03/13/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/13/2012

SUBSURFACE PROFILE

Depth	Description	USCS Classification	Photoionization Detector (PID) (0 10 20 30 40 50)	Well Completion Details
13, 15	***GP*** Sand, fine to medium; rounded; well sorted; trace silt; saturated; dark gray (2.5Y4/1). NOTE: Strong solvent/petroleum odor			
5, 17	***CL*** Clay, some silt, medium plasticity; dry; light olive gray (5Y6/2). NOTE: Odor indicated.			
	Rock			
19, 21	***CL*** Clay; trace sand, fine to coarse; poorly sorted; nonplastic; hard; light olive gray (5Y6/2). NOTE: Odor indicated.			
23, 7, 25	End of Log			

Drill Start: 14:25
Drill End: 15:50
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

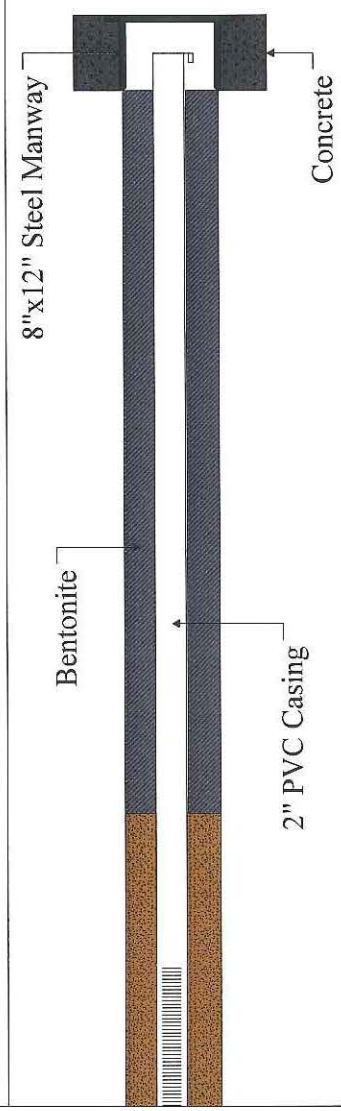
Log of Borehole: MW-104S (12/05/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/05/2012

SUBSURFACE PROFILE

Depth (ft)	Depth (m)	Description	USCS Classification	Photoionization Detector (PID) (0 10 20 30 40 50)
0	0	Ground Surface		
		Concrete/Asphalt		
		ML Clay and Sand, medium plasticity; dry; brown (2.5Y6/4)		
2				
4				
		GP Sand, medium to fine; clay seams 1-3 inches thick throughout; poorly sorted; dry; brown (2.5Y6/4)		
6	2			
8				
10				
12	4			
14				

Well Completion Details



Drill Start: 10:52
Drill End: 11:48
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-104S (12/05/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/05/2012

SUBSURFACE PROFILE

Depth	Description	USCS Classification	Photoionization Detector (PID) 0 10 20 30 40 50	Well Completion Details
16	***GP*** Sand, medium to fine; clay seams 1-3 inches thick throughout; poorly sorted; saturated; brown (2.5Y6/4)			Filter Sand; 5' Stainless Steel Screen
18, 20, 22	***CL*** Clay, some silt; trace sand; medium plasticity; dry; gray (2.5Y4/1)			
24, 26, 28	End of Log			

6

8

Drill Start: 10:52
Drill End: 11:48
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

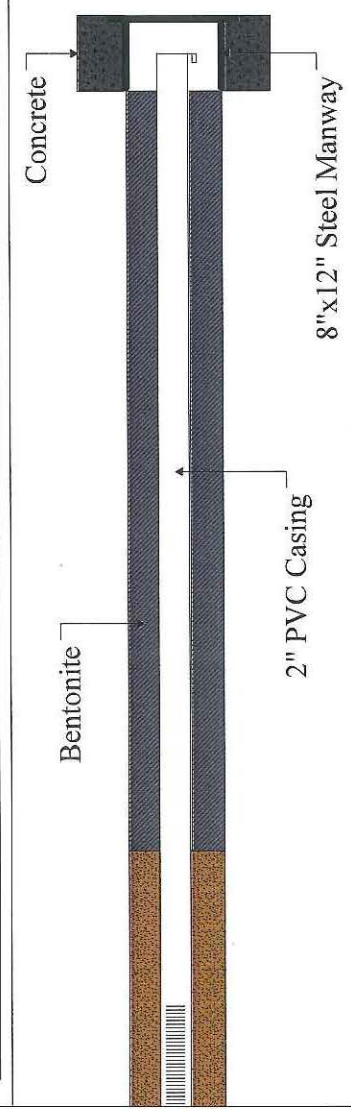
Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-105S (12/05/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/05/2012

SUBSURFACE PROFILE

Depth (ft)	Depth (m)	Description	USCS Classification	Photoionization Detector (PID) (0 10 20 30 40 50)	Well Completion Details
0	0	Ground Surface			
		Concrete/Asphalt			
		GP Sand, medium to fine; trace gravel; rounded; poorly sorted; dry; brown (2.5Y5/3)			
2					
4					
6	2				
8					
10					
12		***CL*** Clay, some silt; medium plasticity; dry; brown (2.5Y5/3)			
	4				
14					



Drill Start: 13:11
Drill End: 14:33
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

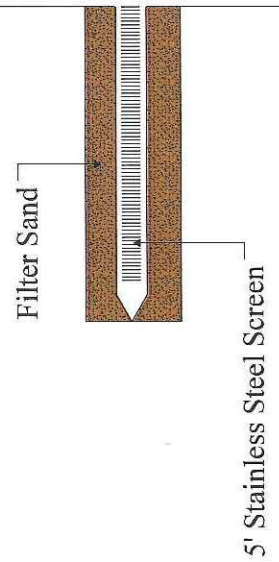
Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-105S (12/05/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/05/2012

SUBSURFACE PROFILE

Depth	Description	USCS Classification	Photoionization Detector (PID) (0 10 20 30 40 50)	Well Completion Details
	GP Sand, fine; rounded; poorly sorted; moist to saturated; brown (2.5Y5/3)			
16	***CL*** Clay, some silt; medium plasticity; dry; brown (2.5Y5/3)			
18	***MH*** Silt and Sand, fine; rapid dilatancy; medium stiff; saturated; brown (2.5Y5/3)			
20 (6)				
22				
24	***CL*** Clay, some silt; some sand seams 6 inches thick in areas; medium plasticity; dry; gray (2.5Y5/1)			
26 (8)	End of Log			
28				



Drill Start: 13:11
Drill End: 14:33
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

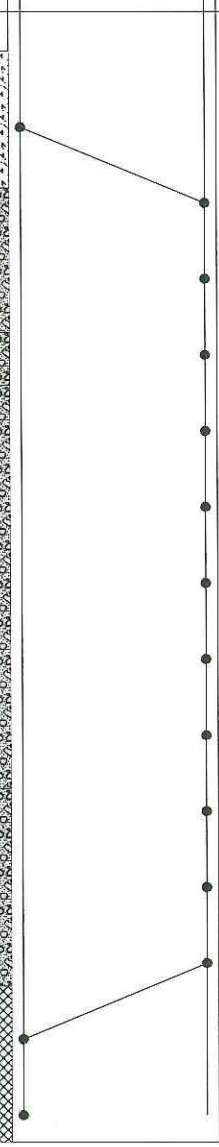
Log of Borehole: MW-106S (12/06/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/06/2012

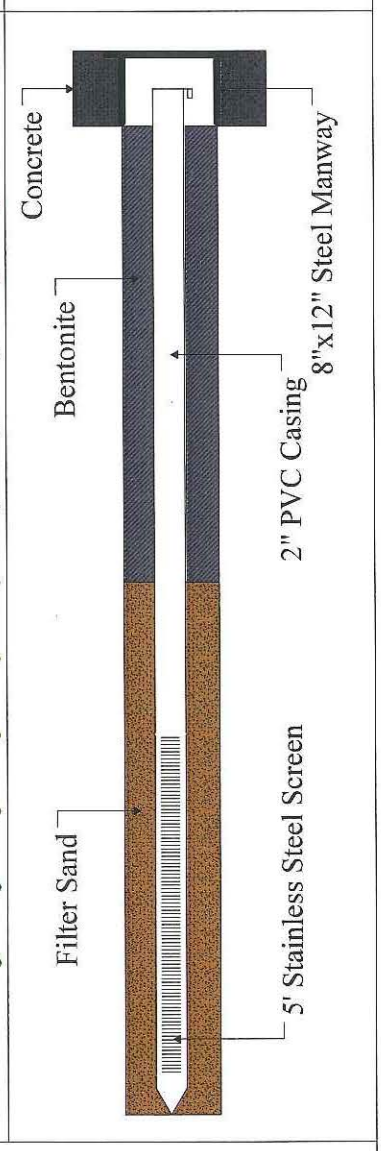
SUBSURFACE PROFILE

Depth (ft)	Depth (m)	Description	USCS Classification
0	0	Ground Surface	
		Concrete	
2		***GP*** Sand, medium to fine; trace gravel; rounded; poorly sorted; dry; brown (2.5Y5/3)	
4		***GP*** Sand, medium to fine; rounded; poorly sorted; dry; black (5Y2.5/1)	
6	2	***GP*** Sand, fine; rounded; poorly sorted; dry; brown (2.5Y5/3) NOTE: A petroleum odor was indicated	
8			
10		***GP*** Sand, fine; rounded; poorly sorted; saturated; brown (2.5Y5/3)	
12	4	***Void*** Void; obstruction NOTE: Tubes came up empty of soil and full of water.	
14			

Photoionization Detector (PID)



Well Completion Details



Drill Start: 12:29
Drill End: 14:17
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-106S (12/06/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/06/2012

SUBSURFACE PROFILE

Depth	Description	USCS Classification	Photoionization Detector (PID) 0 10 20 30 40 50	Well Completion Details
16				
18				
20 (6)				
22				
24	***GP*** Sand, fine; rounded; trace gravel; poorly sorted; dry; gray (2.5Y5/1) NOTES: A petroleum odor was indicated. Clay was not reached at the bottom of the boring due to obstructions and large amounts of water with odor. It was decided not to drill deeper in fear of penetrating a deeper aquifer.			
26 (8)				
28	End of Log			

Drill Start: 12:29
Drill End: 14:17
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

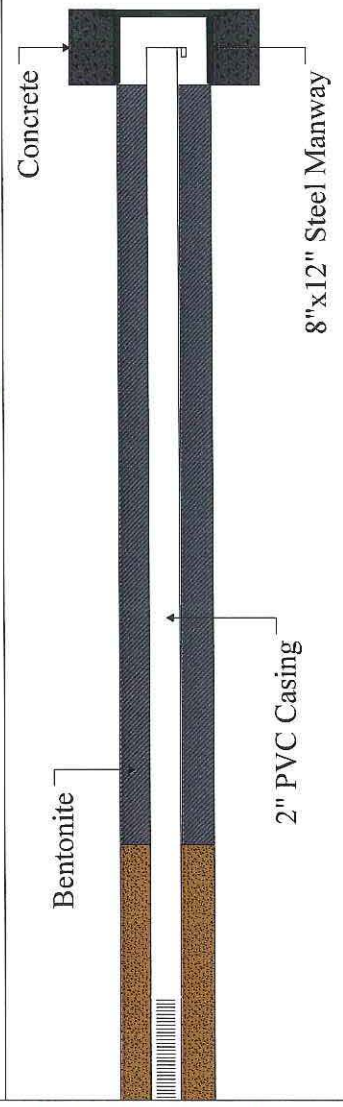
Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-107S (12/06/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/06/2012

SUBSURFACE PROFILE

Depth (ft / m)	Description	USCS Classification	Photoionization Detector (PID) (0 10 20 30 40 50)	Well Completion Details
0 / 0	Ground Surface			
	Concrete			
2	***GP*** Sand, medium to coarse; rounded; poorly sorted; dry; gray (2.5Y5/1)			
4	***CL*** Clay, some silt; medium plasticity; dry; gray (2.5Y5/1) NOTE: A petroluem odor was indicated.			
6 / 2	***Void*** Void; no recovery due to an obstruction			
8				
10	***GP*** Sand, fine; rounded; poorly sorted; dry; brown (2.5Y5/3)			
12 / 4				
14				



Drill Start: 16:02
Drill End: 17:16
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-107S (12/06/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/06/2012

SUBSURFACE PROFILE

Depth	Description	USCS Classification	Photoionization Detector (PID) 0 10 20 30 40 50	Well Completion Details
16				Filter Sand; 5' Stainless Steel Screen
18	***GP*** Sand, fine; rounded; poorly sorted; saturated; brown (2.5Y5/3)			
20 (6)				
22	***CL*** Clay, some silt; medium plasticity; dry; gray (2.5Y5/1)			
24	End of Log			
26 (8)				
28				

Drill Start: 16:02
Drill End: 17:16
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

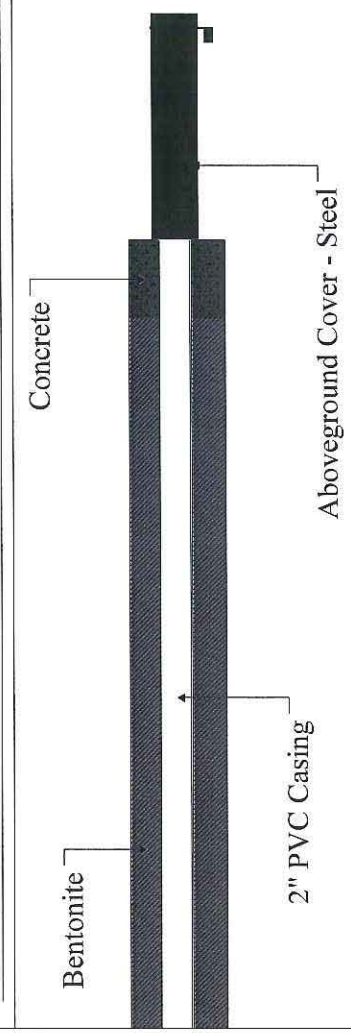
Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-108S (12/10/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/10/2012

SUBSURFACE PROFILE

Depth (ft / m)	Description	USCS Classification	Photoionization Detector (PID) 0 10 20 30 40 50	Well Completion Details
ft: -4, -2, 0, 2, 4, 6, 8, 10; m: 1, 3	Ground Surface			
	Topsoil			
	GP Sand, medium to fine; trace gravel; rounded; poorly sorted; dry; moist; brown (2.5Y5/3)			
	GP Sand, medium to fine; trace gravel and rock; rounded; poorly sorted; dry; brown (2.5Y5/3)			



Drill Start: 13:18
Drill End: 15:33
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-108S (12/10/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/10/2012

SUBSURFACE PROFILE

Depth	Description	USCS Classification	Photoionization Detector (PID) 0 10 20 30 40 50	Well Completion Details
12, 14	***GP*** Sand, some clay, medium to fine; rounded; poorly sorted; dry; gray (5Y4/1)			
16, 5	***GP*** Sand, some clay, medium to fine; rounded; poorly sorted; saturated; gray (5Y4/1)			Filter Sand; 5' Stainless Steel Screen
18	***CL*** Clay, some sand; fine; poorly sorted; medium plasticity; dry; gray (5Y4/1)			
20, 22, 7, 24	End of Log			

Drill Start: 13:18
Drill End: 15:33
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

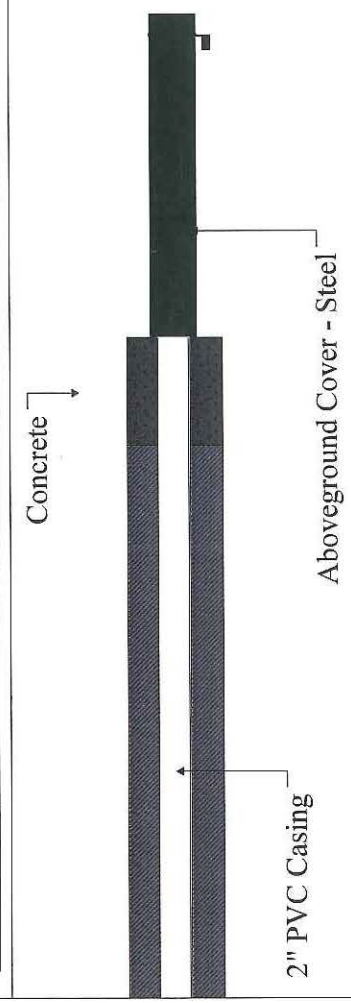
Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-109S (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE

Depth (ft / m)	Description	USCS Classification	Photoionization Detector (PID) (0 10 20 30 40 50)	Well Completion Details
ft: -4, -2, 0, 2, 4; m: 1	Ground Surface			
	Topsoil			
	GP Sand, medium to fine; trace gravel; rounded; poorly sorted; dry; brown (2.5Y5/3)			
	CL Clay, some silt and sand; fine; medium plasticity; rapid dilatancy; dry; brown (2.5Y5/4)			
	GP Sand, fine; rounded; poorly sorted; dry; brown (2.5Y5/4)			



Drill Start: 12:28
Drill End: 13:19
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-109S (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE

Depth	Description	USCS Classification	Photoionization Detector (PID) (0 10 20 30 40 50)	Well Completion Details
7	***GP*** Sand, some clay, fine; rounded; poorly sorted; medium plasticity; dry; brown (2.5Y5/4)			Bentonite
9	***GP*** Sand, fine; rounded; poorly sorted; moist to saturated; brown (2.5Y5/4)			
3				
11	***MH*** Silt and Sand, fine; rapid dilatancy; saturated; gray (5Y5/1)			Filter Sand
	CL Clay, some silt, medium plasticity; dry; gray (5Y5/1)			
13				5" Stainless Steel Screen
	Rock Obstruction; rock or bedrock			
	End of Log			
15				

Drill Start: 12:28
Drill End: 13:19
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

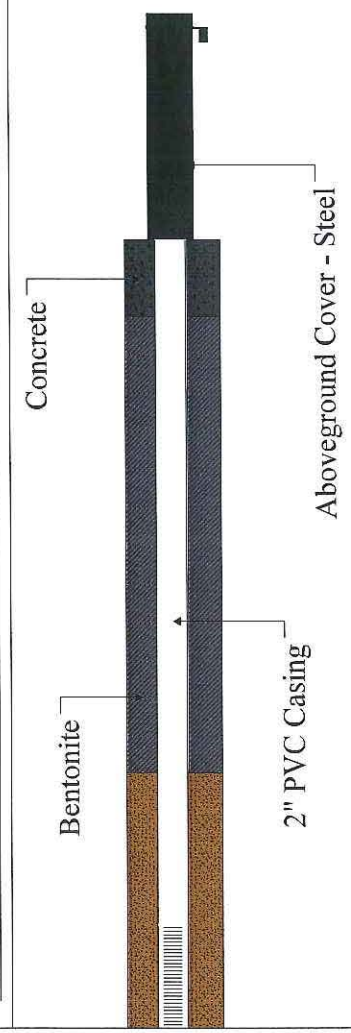
Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-110S (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE

Depth (ft / m)	Description	USCS Classification	Photoionization Detector (PID) 0 10 20 30 40 50	Well Completion Details
ft: -4, -2, 0, 2, 4, 6, 8, 10; m: 1, 3	Ground Surface			
	Topsoil			
	GP Sand, fine; trace sand and gravel; rounded; poorly sorted; dry; black (5Y2.5/1)			
	CL Clay, some sand; fine; poorly sorted: dry; gray (5Y5/1)			
	GP Sand, fine; rounded; poorly sorted; moist at 10 feet below grade; gray (5Y5/1)			



Drill Start: 11:32
Drill End: 12:22
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-110S (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE

Depth	Description	USCS Classification	Photoionization Detector (PID) 0 10 20 30 40 50	Well Completion Details
12	***GP*** Sand, medium to fine; rounded; poorly sorted; saturated; brown (2.5Y5/4)			Filter Sand; 5' Stainless Steel Screen
14	***MH*** Silt and Sand, fine; rapid dilatancy; saturated; gray (5Y5/1)			
16 – 5				
18	***CL*** Clay, some silt, medium plasticity; rapid dilatancy; dry; gray (5Y5/1)			
20	***Rock*** Obstruction; rock or bedrock			
	End of Log			
22				
7				
24				

Drill Start: 11:32
Drill End: 12:22
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

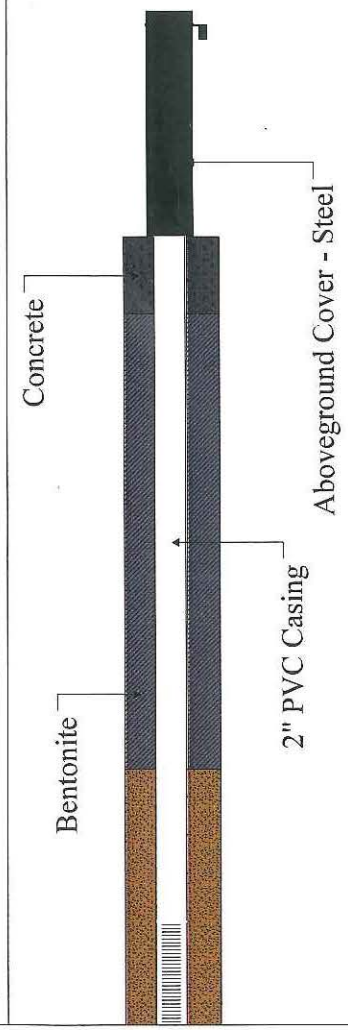
Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-111S (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE

Depth (ft / m)	Description	USCS Classification	Photoionization Detector (PID) (0 10 20 30 40 50)	Well Completion Details
ft: -4, -2, 0, 2, 4, 6, 8, 10; m: 1, 3	Ground Surface			
0 – 2.5	***Topsoil*** with some gravel			
2.5 – 4.5	***GP*** Sand, fine; rounded; poorly sorted; dry; brown (2.5Y5/4)			
4.5 – 5.5	***CL*** Clay, some sand; medium plasticity; fine; poorly sorted; dry; brown (2.5Y5/4)			
5.5 – 10	***GP*** Sand, fine; rounded; poorly sorted; dry; brown (2.5Y5/4)			



Drill Start: 16:16
Drill End: 17:19
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-111S (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE

Depth	Description	USCS Classification	Photoionization Detector (PID) 0 10 20 30 40 50	Well Completion Details
	GP Sand, fine; rounded; poorly sorted; moist; brown (2.5Y5/4)			
12	***GP*** Sand, fine; rounded; poorly sorted; saturated; brown (2.5Y5/4)			Filter Sand; 5' Stainless Steel Screen
14	***MH*** Silt and Sand, fine; rapid dilatancy; saturated; gray (5Y5/1)			
16 – 5	***CL*** Clay, some silt, medium plasticity; rapid dilatancy; dry; gray (5Y5/1)			
18	End of Log			
20				
22 – 7				
24				

Drill Start: 16:16
Drill End: 17:19
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

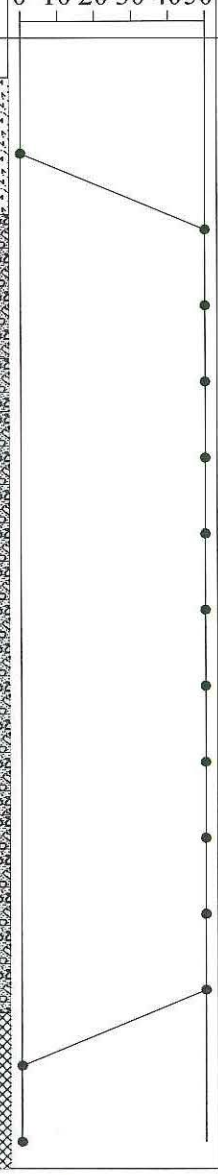
Log of Borehole: MW-106SR (04/26/2013)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 04/26/2013

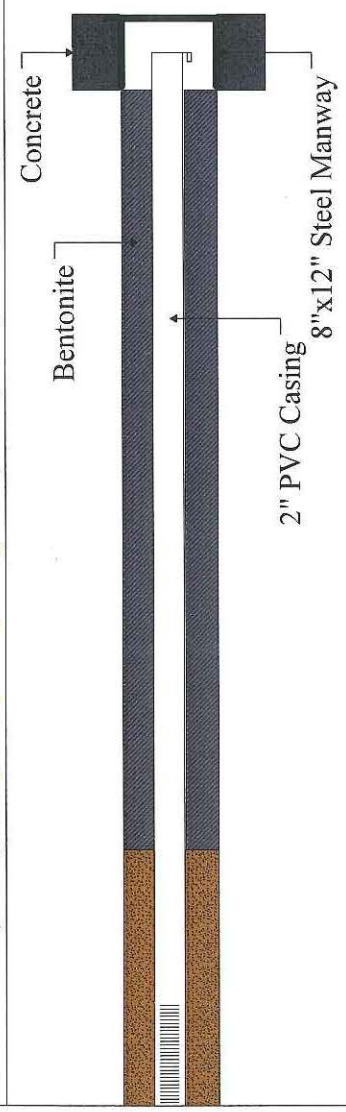
SUBSURFACE PROFILE

Depth (ft)	Depth (m)	Description	USCS Classification
0	0	Ground Surface	
		Concrete	
2		***GP*** Sand, medium to fine; trace gravel; rounded; poorly sorted; dry; brown (2.5Y5/3)	
4		***GP*** Sand, medium to fine; rounded; poorly sorted; dry; black (5Y2.5/1)	
6	2	***GP*** Sand, fine; rounded; poorly sorted; dry; brown (2.5Y5/3) NOTE: A petroleum odor was indicated	
8			
10		***GP*** Sand, fine; rounded; poorly sorted; saturated; brown (2.5Y5/3)	
12	4	***Void*** Void; obstruction NOTE: Tubes came up empty of soil and full of water.	
14			

Photoionization Detector (PID)



Well Completion Details



Drill Start: 10:11
Drill End: 11:23
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-106SR (04/26/2013)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 04/26/2013

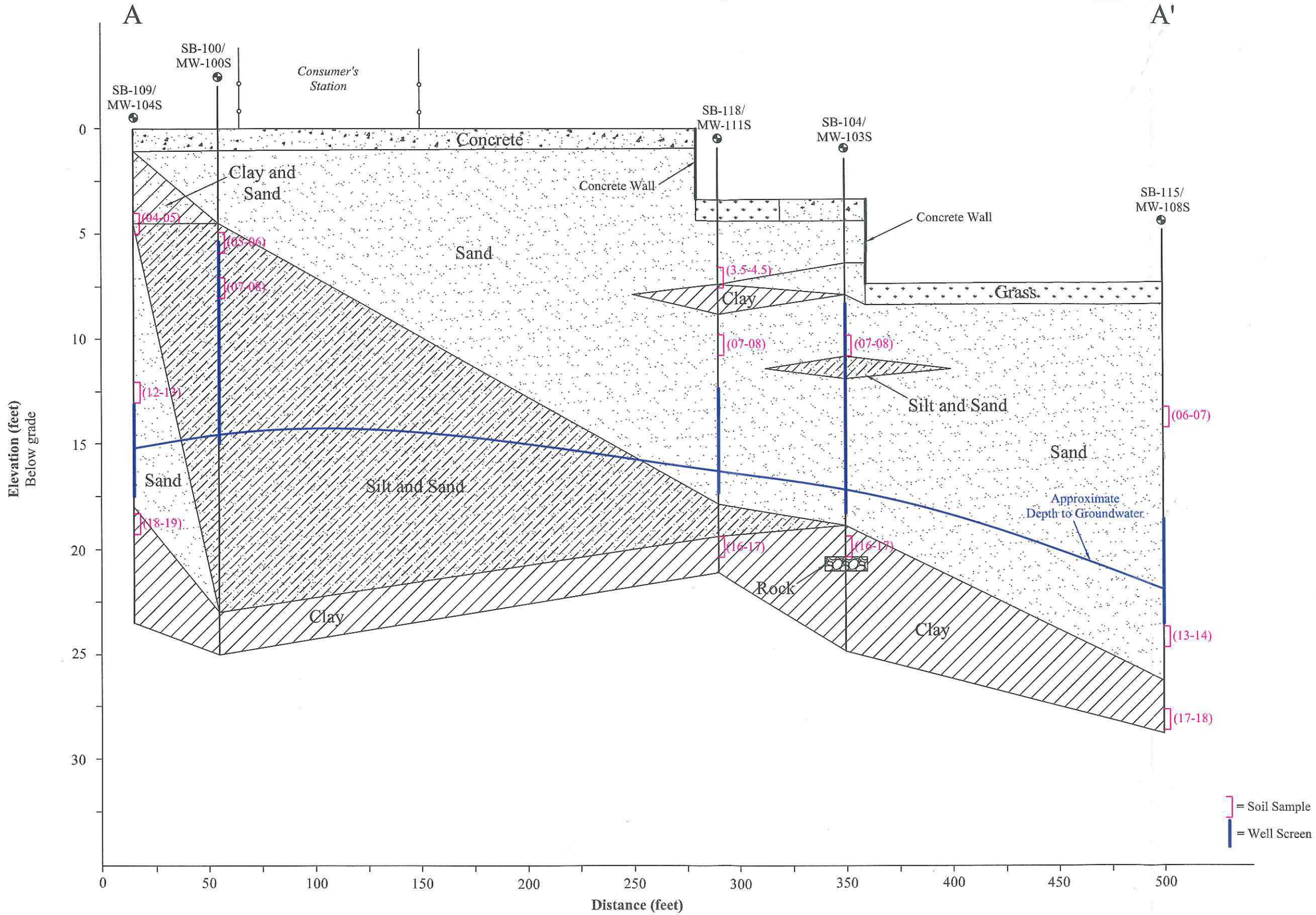
SUBSURFACE PROFILE

Depth	Description	USCS Classification	Photoionization Detector (PID) 0 10 20 30 40 50	Well Completion Details
16, 18, 20, 22, 24, 26, 28				Filter Sand; 5' Stainless Steel Screen
6				
8	***GP*** Sand, fine; rounded; trace gravel; poorly sorted; dry; gray (2.5Y5/1) NOTES: A petroleum odor was indicated. Clay was not reached at the bottom of the boring due to obstructions and large amounts of water with odor. It was decided not to drill deeper in fear of penetrating a deeper aquifer.			
	End of Log			

Drill Start: 10:11
Drill End: 11:23
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

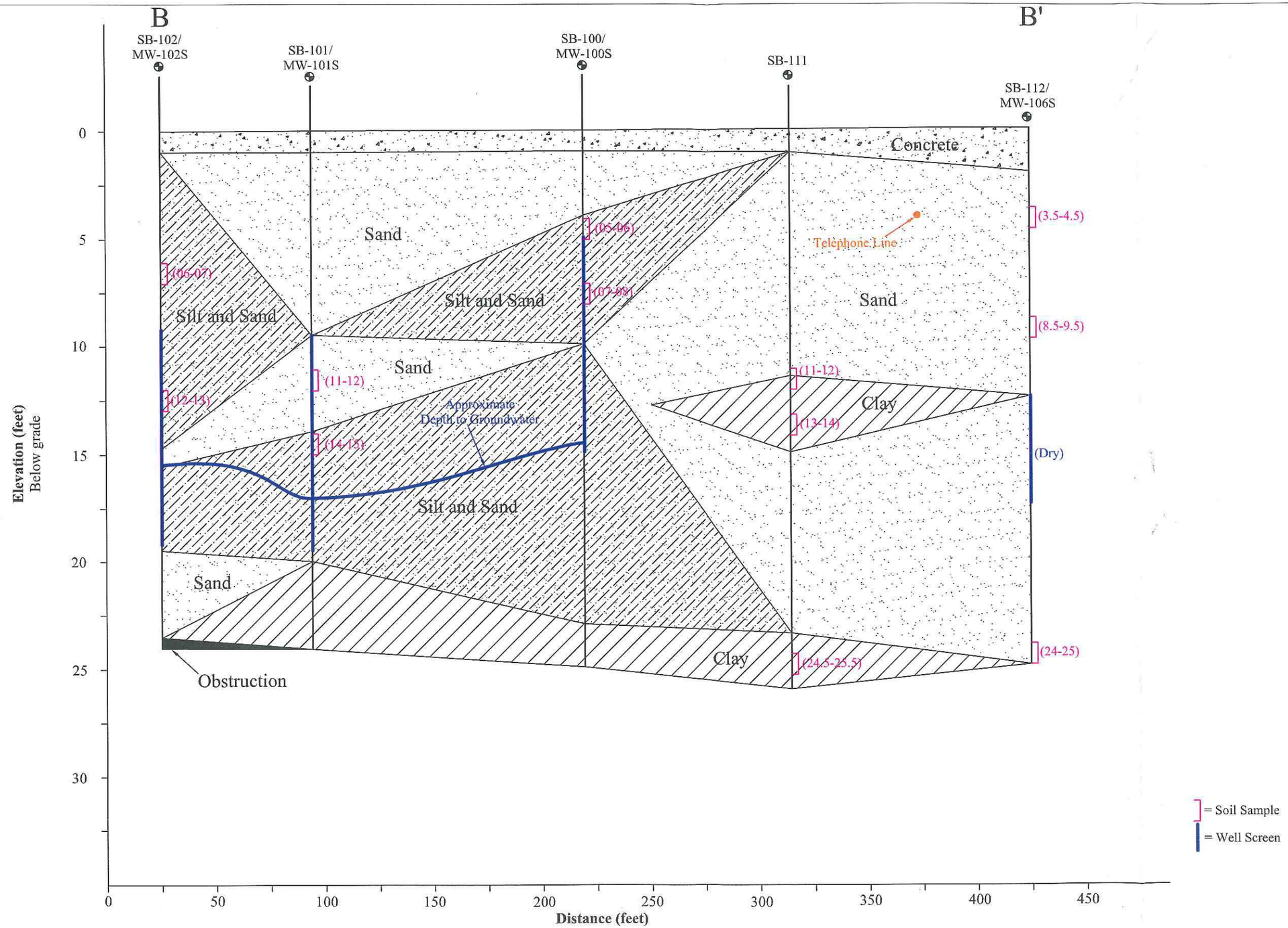
ATTACHMENT #3: CROSS SECTION DIAGRAMS



DATE: 2013	SCALE: As Noted
PROJECT: 11-4317	FIGURE: TBD

Cross Section Diagram
A - A'
Delphi - Flint West Facility
Former Building 9
Flint, Michigan
100-12990-0012

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: 810.715.2525; Fax: 810.715.2526



DATE:	SCALE:
2013	As Noted
PROJECT:	**FIGURE:**
11-4317	TBD

Cross Section Diagram
B - B'
Delphi - Flint West Facility
Former Building 9
Flint, Michigan
100-12990-0012

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ATTACHMENT #4: SOIL AND GROUNDWATER ANALYTICAL TABLES

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

Applied *Eco*Systems, Inc.

Environmental Management, Consulting & Field Services

Soil Analytical Tables

Sampling Event - March 7 and 8, 2012

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		SB-100 (03/07/2012) (05-06)		SB-100 (03/07/2012) (07-08)		SB-101 (03/08/2012) (11-12)		SB-101 (03/08/2012) (14-15)		SB-102 (03/08/2012) (06-07)		SB-102 (03/08/2012) (12-13)	
Date Collected		3/7/2012		3/7/2012		3/8/2012		3/8/2012		3/8/2012		3/8/2012	
Collection Method		Grab		Grab		Grab		Grab		Grab		Grab	
INORGANICS													
Date Analyzed		3/12-14/2012		3/12-14/2012		3/12-14/2012		3/12-14/2012		3/12-14/2012			
Analytical Method Number		Mulitple		Mulitple		Mulitple		Mulitple		Mulitple			
CONSTITUENT (mg/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Chromium VI	18540-29-9	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Cyanide	57-12-5	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15
METALS													
Date Analyzed		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012	
Metal Digestion		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012	
Analytical Method Number		6020, 7471A		6020, 7471A		6020, 7471A		6020, 7471A		6020, 7471A		6020, 7471A	
CONSTITUENT (mg/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Arsenic	7440-38-2	1.15	0.10	1.64	0.10	0.43	0.10	1.14	0.10	1.58	0.10	0.39	0.10
Barium	7440-39-3	37.90	1.00	37.10	1.00	4.02	1.00	38.60	1.00	26.10	1.00	6.90	1.00
Cadmium	7440-43-9	ND	0.20	ND	0.20	ND	0.20	ND	0.20	ND	0.20	ND	0.20
Chromium	7440-47-3	2.90	0.50	3.19	0.50	0.69	0.50	4.27	0.50	16.40	0.50	1.20	0.50
Copper	7440-50-8	3.05	0.50	4.36	0.50	0.52	0.50	6.01	0.50	21.10	0.50	0.71	0.50
Lead	7439-92-1	6.29	0.30	6.08	0.30	0.95	0.30	7.11	0.30	15.20	0.30	1.18	0.30
Mercury	7439-97-6	ND	0.05	ND	0.05	ND	0.05	ND	0.05	0.058	0.05	ND	0.05
Selenium	7782-49-2	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50
Silver	7440-22-4	ND	0.20	ND	0.20	ND	0.20	ND	0.20	ND	0.20	ND	0.20
Zinc	7440-66-6	10.10	1.00	15.00	1.00	1.77	1.00	15.80	1.00	27.10	1.00	2.19	1.00
POLYCHLORINATED BIPHENYLS (PCBs)/PESTICIDES													
Date Analyzed		3/12/2012		3/12/2012		3/12/2012		3/12/2012		3/12/2012		3/12/2012	
Date Extracted		3/12/2012		3/12/2012		3/12/2012		3/12/2012		3/12/2012		3/12/2012	
Analytical Method Number		8082A		8082A		8082A		8082A		8082A		8082A	
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
PCB-1016	12674-11-2	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
PCB-1242	53469-21-9	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
PCB-1221	11104-28-2	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
PCB-1232	11141-16-5	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
PCB-1248	12672-29-6	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
PCB-1254	11097-69-1	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
PCB-1260	11096-82-5	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		SB-100 (03/07/2012) (05-06)		SB-100 (03/07/2012) (07-08)		SB-101 (03/08/2012) (11-12)		SB-101 (03/08/2012) (14-15)		SB-102 (03/08/2012) (06-07)		SB-102 (03/08/2012) (12-13)	
Date Collected		3/7/2012		3/7/2012		3/8/2012		3/8/2012		3/8/2012		3/8/2012	
Collection Method		Grab		Grab		Grab		Grab		Grab		Grab	
SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs)													
Date Analyzed		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012	
Analytical Method Number		8270C		8270C		8270C		8270C		8270C		8270C	
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Acenaphthene	83-32-9	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Acenaphthylene	208-96-8	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Anthracene	120-12-7	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Benzo(a)anthracene	56-55-3	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Benzo(b)fluoranthene	205-99-2	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Benzo(k)fluoranthene	207-08-9	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Benzo(ghi)perylene	191-24-2	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Benzo(a)pyrene	50-32-8	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
bis(2-Chloroethoxy)methane	111-91-1	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
bis(2-Chloroethyl)ether	111-44-4	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
bis(2-Chloroisoprpyl)ether	108-60-1	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
bis(2-Ethylhexyl)phthalate	117-81-7	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
4-Bromophenyl phenyl ether	101-55-3	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Butyl benzyl phthalate	85-60-7	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
4-Chloroaniline	106-47-8	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
2-Chloronaphthalene	91-58-7	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
4-Chloro-3-methylphenol	59-50-7	ND	280	ND	280	ND	280	ND	280	ND	280	ND	280
2-Chlorophenol	95-57-8	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
4-Chlorophenyl phenyl ether	7005-72-3	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Chrysene	218-01-9	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
p,m-Cresol	3/4-Cresol	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
o-Cresol	95-48-7	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Dibenzo(ah)anthracene	53-70-3	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Dibenzofuran	132-64-9	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
di-n-Butyl phthalate	84-74-2	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
1,2-Dichlorobenzene	95-50-1	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
1,3-Dichlorobenzene	541-73-1	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
1,4-Dichlorobenzene	106-46-7	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
3,3-Dichlorobenzidine	91-94-1	ND	2,000	ND	2,000	ND	2,000	ND	2,000	ND	2,000	ND	2,000

Notes:
Results in parts per billion
NA = Not Analyzed
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SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		SB-100 (03/07/2012) (05-06)		SB-100 (03/07/2012) (07-08)		SB-101 (03/08/2012) (11-12)		SB-101 (03/08/2012) (14-15)		SB-102 (03/08/2012) (06-07)		SB-102 (03/08/2012) (12-13)	
Date Collected		3/7/2012		3/7/2012		3/8/2012		3/8/2012		3/8/2012		3/8/2012	
Collection Method		Grab		Grab		Grab		Grab		Grab		Grab	
SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - continued													
Date Analyzed		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012	
Analytical Method Number		8270C		8270C		8270C		8270C		8270C		8270C	
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
2,4-Dichlorophenol	120-83-2	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Diethyl phthalate	84-66-2	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
2,4-Dimethylphenol	105-67-9	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Dimethyl phthalate	131-11-3	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
4,6-Dinitro-2-methylphenol	534-52-1	ND	830	ND	830	ND	830	ND	830	ND	830	ND	830
2,4-Dinitrophenol	51-28-5	ND	830	ND	830	ND	830	ND	830	ND	830	ND	830
2,4-Dinitrotoluene	121-14-2	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
2,6-Dinitrotoluene	606-20-2	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
1,2-Diphenylhydrazine	122-66-7	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
di-n-Octyl phthalate	117-84-0	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Fluoranthene	208-44-0	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Fluorene	86-73-7	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Hexachlorobenzene	118-74-1	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Hexachlorobutadiene	87-68-3	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Hexachlorocyclopentadiene	77-47-4	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Hexachloroethane	67-72-1	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Isophorone	78-59-1	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
2-Methylnaphthalene	91-57-6	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Naphthalene	91-20-3	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
2-Nitroaniline	88-74-4	ND	830	ND	830	ND	830	ND	830	ND	830	ND	830
3-Nitroaniline	99-09-2	ND	830	ND	830	ND	830	ND	830	ND	830	ND	830
4-Nitroaniline	100-01-6	ND	830	ND	830	ND	830	ND	830	ND	830	ND	830
Nitrobenzene	98-95-3	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
2-Nitrophenol	88-75-5	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
4-Nitrophenol	100-02-7	ND	830	ND	830	ND	830	ND	830	ND	830	ND	830
N-Nitrosodiphenylamine	86-30-6	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
N-Nitrsodi-n-propylamine	621-64-7	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Pentachlorophenol	87-86-5	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330

Notes:
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SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		SB-100 (03/07/2012) (05-06)		SB-100 (03/07/2012) (07-08)		SB-101 (03/08/2012) (11-12)		SB-101 (03/08/2012) (14-15)		SB-102 (03/08/2012) (06-07)		SB-102 (03/08/2012) (12-13)	
Date Collected		3/7/2012		3/7/2012		3/8/2012		3/8/2012		3/8/2012		3/8/2012	
Collection Method		Grab		Grab		Grab		Grab		Grab		Grab	
SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - continued													
Date Analyzed		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012	
Analytical Method Number		8270C		8270C		8270C		8270C		8270C		8270C	
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Phenanthrene	85-01-8	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Phenol	108-95-2	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Pyrene	129-00-0	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
1,2,4-Trichlorobenzene	120-82-1	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
2,4,5-Trichlorophenol	95-95-4	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
2,4,6-Trichorophenol	88-06-2	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
VOLATILE ORGANICS COMPOUNDS (VOCs)													
Date Analyzed		3/9/2012		3/9/2012		3/9/2012		3/9/2012		3/9/2012		3/9/2012	
Analytical Method Number		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035	
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Diethyl ether	60-29-7	ND	300	ND	300	ND	300	ND	300	ND	300	ND	200
Acetone	67-64-1	ND	2,000	ND	2,000	ND	1,000	ND	2,000	ND	1,000	ND	1,000
Methyl iodide	74-88-4	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
Carbon disulfide	75-15-0	ND	400	ND	400	ND	400	ND	400	ND	300	ND	300
tert-Methyl butyl ether (MTBE)	1634-04-4	ND	300	ND	300	ND	300	ND	300	ND	300	ND	200
Acrylonitrile	107-13-1	ND	200	ND	200	ND	100	ND	200	ND	400	ND	100
2-Butanone (MEK)	78-93-3	ND	1,200	ND	1,200	ND	1,100	ND	1,200	ND	950	ND	890
Dichlorodifluoromethane	75-71-8	ND	400	ND	400	ND	400	ND	400	ND	300	ND	300
Chloromethane	74-87-3	ND	400	ND	400	ND	400	ND	400	ND	300	ND	300
Vinyl chloride	75-01-4	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Bromomethane	74-83-9	ND	300	ND	300	ND	300	ND	300	ND	300	ND	200
Chloroethane	75-00-3	ND	400	ND	400	ND	400	ND	400	ND	300	ND	300
Terichlorofluoromethane	75-69-4	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
1,1-Dichloroethene	75-35-4	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Methylene chloride	75-09-2	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
trans-1,2-Dichloroethene	156-60-5	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
1,1-Dichloroethane	75-34-3	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
cis-1,2-Dichloroethene	156-59-2	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Tetrahydrofuran	109-99-9	ND	2,000	ND	2,000	ND	1,000	ND	2,000	ND	1,000	ND	1,000

Notes:
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SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

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Date Collected		3/7/2012		3/7/2012		3/8/2012		3/8/2012		3/8/2012		3/8/2012	
Collection Method		Grab		Grab		Grab		Grab		Grab		Grab	
VOLATILE ORGANICS COMPOUNDS (VOCs) - continued													
Date Analyzed		3/9/2012		3/9/2012		3/9/2012		3/9/2012		3/9/2012		3/9/2012	
Analytical Method Number		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035	
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Chloroform	67-66-3	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Bromochloromethane	74-97-5	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
1,1,1-Trichlororthane	71-55-6	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
4-Methyl-2-pentanone (MIBK)	10810-1	ND	4,000	ND	4,000	ND	4,000	ND	4,000	ND	3,000	ND	3,000
2-Hexanone	591-78-6	ND	4,000	ND	4,000	ND	4,000	ND	4,000	ND	3,000	ND	3,000
Carbon tetrachloride	56-23-5	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Benzene	71-43-2	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
1,2-Dichloroethane	107-06-2	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Trichloroethene	79-01-6	ND	80	ND	90	ND	70	ND	80	*330 (D-100)*	60	ND	60
1,2-Dichloropropane	78-87-5	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Bromodichloromethane	75-27-4	ND	200	ND	200	ND	100	ND	200	ND	100	ND	1,000
Dibromomethane	74-95-3	ND	400	ND	400	ND	400	ND	400	ND	300	ND	300
cis-1,3-Dichloropropane	10061-01-5	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Toluene	108-88-3	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
trans-1,3-Dichloropropane	10061-02-6	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
1,1,2-Trichloroethane	79-00-5	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Tetrachloroethene	127-18-4	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
trans-1,4-Dichloro-2-butene	110-57-6	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Dibromochloromethane	124-48-1	ND	200	ND	200	ND	700	ND	200	ND	100	ND	100
1,2-Dibromoethane	106-93-4	ND	30	ND	30	ND	30	ND	30	ND	30	ND	20
Chlorobenzene	108-90-7	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
1,1,1,2-Teterchloroethane	630-20-6	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
Ethylbenzene	100-41-4	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
p,m-Xylene	No CAS #	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
o-Xylene	95-47-6	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Styrene	100-42-5	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Isopropylbenzene	98-82-8	ND	400	ND	400	ND	400	ND	400	ND	300	ND	300
Bromoform	75-25-2	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
1,1,2,2-Tetrachloroethane	79-34-5	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

D = Residential Drinking Water Criterion

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		SB-100 (03/07/2012) (05-06)		SB-100 (03/07/2012) (07-08)		SB-101 (03/08/2012) (11-12)		SB-101 (03/08/2012) (14-15)		SB-102 (03/08/2012) (06-07)		SB-102 (03/08/2012) (12-13)	
Date Collected		3/7/2012		3/7/2012		3/8/2012		3/8/2012		3/8/2012		3/8/2012	
Collection Method		Grab		Grab		Grab		Grab		Grab		Grab	
VOLATILE ORGANICS COMPOUNDS (VOCs) - continued													
Date Analyzed		3/9/2012		3/9/2012		3/9/2012		3/9/2012		3/9/2012		3/9/2012	
Analytical Method Number		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035	
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
1,2,3-Trichloropropane	96-18-4	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
n-Propylbenzene	103-65-1	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
Bromobenzene	108-86-1	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
1,3,5-Trimethylbenzene	108-67-8	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
tert-Butylbenzene	98-06-6	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
1,2,4-Trimethylbenzene	95-63-6	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
sec-Butylbenzene	135-98-8	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
p-Isopropyltoluene	99-87-6	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
1,3-Dichlorobenzene	541-73-1	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
1,4-Dichlorobenzene	106-46-7	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
1,2-Dichlorobenzene	95-50-1	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
1,2,3-Trimethylbenzene	526-73-8	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
n-Butylbenzene	104-51-8	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Hexachloroethane	67-72-1	ND	500	ND	500	ND	400	ND	500	ND	400	ND	400
1,2-Dibromo-3-chloropropane	96-12-8	ND	400	ND	400	ND	400	ND	400	ND	300	ND	300
1,2,4-Trichlorobenzene	120-82-1	ND	540	ND	570	ND	480	ND	540	ND	420	ND	390
1,2,3-Trichlorobenzene	87-61-6	ND	540	ND	570	ND	480	ND	540	ND	420	ND	390
Naphthalene	91-20-3	ND	540	ND	570	ND	480	ND	540	ND	420	ND	390
2-Methylnaphthalene	91-57-6	ND	540	ND	570	ND	480	ND	540	ND	420	ND	390

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		SB-103 (03/08/2012) (09-10)		SB-103 (03/08/2012) (12-13)		DUP-1 (03/08/2012) (SB-102)		Field Blank (03/07/2012)		Field Blank (03/08/2012)		Trip Blank (03/07/2012)	
Date Collected		3/8/2012		3/8/2012		3/8/2012		3/7/2012		3/8/2012		3/7/2012	
Collection Method		Grab		Grab		Grab		Grab		Grab		Grab	
INORGANICS													
Date Analyzed		3/12-14/2012		3/12-14/2012		3/12-14/2012		NA		NA		NA	
Analytical Method Number		Mulitple		Mulitple		Mulitple		NA		NA		NA	
CONSTITUENT (mg/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Chromium VI	18540-29-9	ND	1	ND	1	ND	1	NA	NA	NA	NA	NA	NA
Cyanide	57-12-5	ND	0.15	ND	0.15	ND	0.15	NA	NA	NA	NA	NA	NA
METALS													
Date Analyzed		3/13/2012		3/13/2012		3/13/2012		NA		NA		NA	
Metal Digestion		3/13/2012		3/13/2012		3/13/2012		NA		NA		NA	
Analytical Method Number		6020, 7471A		6020, 7471A		6020, 7471A		NA		NA		NA	
CONSTITUENT (mg/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Arsenic	7440-38-2	1.51	0.10	1.05	0.10	*5.93 (B-5.8)*	0.10	NA	NA	NA	NA	NA	NA
Barium	7440-39-3	27.90	1.00	9.98	1.00	84.40	1.00	NA	NA	NA	NA	NA	NA
Cadmium	7440-43-9	ND	0.20	ND	0.20	0.41	0.20	NA	NA	NA	NA	NA	NA
Chromium	7440-47-3	2.73	0.50	1.43	0.50	26.20	0.50	NA	NA	NA	NA	NA	NA
Copper	7440-50-8	3.94	0.50	5.41	0.50	34.50	0.50	NA	NA	NA	NA	NA	NA
Lead	7439-92-1	3.61	0.30	3.81	0.30	114.00	0.30	NA	NA	NA	NA	NA	NA
Mercury	7439-97-6	ND	0.05	ND	0.05	*0.4 (B-1.3)*	0.05	NA	NA	NA	NA	NA	NA
Selenium	7782-49-2	ND	0.50	ND	0.50	ND	0.50	NA	NA	NA	NA	NA	NA
Silver	7440-22-4	ND	0.20	ND	0.20	0.23	0.20	NA	NA	NA	NA	NA	NA
Zinc	7440-66-6	9.93	1.00	11.20	1.00	117.00	1.00	NA	NA	NA	NA	NA	NA
POLYCHLORINATED BIPHENYLS (PCBs)/PESTICIDES													
Date Analyzed		3/12/2012		3/12/2012		3/12/2012		NA		NA		NA	
Date Extracted		3/12/2012		3/12/2012		3/12/2012		NA		NA		NA	
Analytical Method Number		8082A		8082A		8082A		NA		NA		NA	
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
PCB-1016	12674-11-2	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
PCB-1242	53469-21-9	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
PCB-1221	11104-28-2	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
PCB-1232	11141-16-5	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
PCB-1248	12672-29-6	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
PCB-1254	11097-69-1	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
PCB-1260	11096-82-5	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

B - Background (naturally-occuring) concentration

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		SB-103 (03/08/2012) (09-10)		SB-103 (03/08/2012) (12-13)		DUP-1 (03/08/2012) (SB-102)		Field Blank (03/07/2012)		Field Blank (03/08/2012)		Trip Blank (03/07/2012)	
Date Collected		3/8/2012		3/8/2012		3/8/2012		3/7/2012		3/8/2012		3/7/2012	
Collection Method		Grab		Grab		Grab		Grab		Grab		Grab	
SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs)													
Date Analyzed		3/13/2012		3/13/2012		3/13/2012		NA		NA		NA	
Analytical Method Number		8270C		8270C		8270C		NA		NA		NA	
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Acenaphthene	83-32-9	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Acenaphthylene	208-96-8	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Anthracene	120-12-7	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	56-55-3	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	205-99-2	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	207-08-9	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	191-24-2	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	50-32-8	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	111-91-1	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	111-44-4	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
bis(2-Chloroisoprpyl)ether	108-60-1	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	117-81-7	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	101-55-3	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	85-60-7	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
4-Chloroaniline	106-47-8	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	91-58-7	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	59-50-7	ND	280	ND	280	ND	280	NA	NA	NA	NA	NA	NA
2-Chlorophenol	95-57-8	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	7005-72-3	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Chrysene	218-01-9	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
p,m-Cresol	3/4-Cresol	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
o-Cresol	95-48-7	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Dibenzo(ah)anthracene	53-70-3	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Dibenzofuran	132-64-9	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
di-n-Butyl phthalate	84-74-2	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	95-50-1	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	91-94-1	ND	2,000	ND	2,000	ND	2,000	NA	NA	NA	NA	NA	NA

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		SB-103 (03/08/2012) (09-10)		SB-103 (03/08/2012) (12-13)		DUP-1 (03/08/2012) (SB-102)		Field Blank (03/07/2012)		Field Blank (03/08/2012)		Trip Blank (03/07/2012)	
Date Collected		3/8/2012		3/8/2012		3/8/2012		3/7/2012		3/8/2012		3/7/2012	
Collection Method		Grab		Grab		Grab		Grab		Grab		Grab	
SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - continued													
Date Analyzed		3/13/2012		3/13/2012		3/13/2012		NA		NA		NA	
Analytical Method Number		8270C		8270C		8270C		NA		NA		NA	
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
2,4-Dichlorophenol	120-83-2	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Diethyl phthalate	84-66-2	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	105-67-9	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	131-11-3	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	534-52-1	ND	830	ND	830	ND	830	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	51-28-5	ND	830	ND	830	ND	830	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	121-14-2	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	606-20-2	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	122-66-7	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
di-n-Octyl phthalate	117-84-0	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Fluoranthene	206-44-0	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Fluorene	86-73-7	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	118-74-1	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	87-68-3	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	77-47-4	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Hexachloroethane	67-72-1	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Isophorone	78-59-1	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	91-57-6	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Naphthalene	91-20-3	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
2-Nitroaniline	88-74-4	ND	830	ND	830	ND	830	NA	NA	NA	NA	NA	NA
3-Nitroaniline	99-09-2	ND	830	ND	830	ND	830	NA	NA	NA	NA	NA	NA
4-Nitroaniline	100-01-6	ND	830	ND	830	ND	830	NA	NA	NA	NA	NA	NA
Nitrobenzene	98-95-3	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
2-Nitrophenol	88-75-5	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
4-Nitrophenol	100-02-7	ND	830	ND	830	ND	830	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	86-30-6	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
N-Nitrsodi-n-propylamine	621-64-7	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Pentachlorophenol	87-86-5	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		SB-103 (03/08/2012) (09-10)		SB-103 (03/08/2012) (12-13)		DUP-1 (03/08/2012) (SB-102)		Field Blank (03/07/2012)		Field Blank (03/08/2012)		Trip Blank (03/07/2012)	
Date Collected		3/8/2012		3/8/2012		3/8/2012		3/7/2012		3/8/2012		3/7/2012	
Collection Method		Grab		Grab		Grab		Grab		Grab		Grab	
SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - continued													
Date Analyzed		3/13/2012		3/13/2012		3/13/2012		NA		NA		NA	
Analytical Method Number		8270C		8270C		8270C		NA		NA		NA	
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Phenanthrene	85-01-8	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Phenol	108-95-2	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Pyrene	129-00-0	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	120-82-1	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	95-95-4	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
2,4,6-Trichorophenol	88-06-2	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
VOLATILE ORGANICS COMPOUNDS (VOCs)													
Date Analyzed		3/9/2012		3/9/2012		3/9/2012		3/9/2012		3/9/2012		3/9/2012	
Analytical Method Number		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035	
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Diethyl ether	60-29-7	ND	300	ND	300	ND	300	ND	200	ND	200	ND	200
Acetone	67-64-1	ND	1,000	ND	1,000	ND	1,000	ND	1,000	ND	1,000	ND	1,000
Methyl iodide	74-88-4	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Carbon disulfide	75-15-0	ND	300	ND	400	ND	400	ND	300	ND	300	ND	300
tert-Methyl butyl ether (MTBE)	1634-04-4	ND	300	ND	300	ND	300	ND	200	ND	200	ND	200
Acrylonitrile	107-13-1	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
2-Butanone (MEK)	78-93-3	ND	1,000	ND	1,000	ND	1,000	ND	750	ND	750	ND	750
Dichlorodifluoromethane	75-71-8	ND	300	ND	400	ND	400	ND	300	ND	300	ND	300
Chloromethane	74-87-3	ND	300	ND	400	ND	400	ND	300	ND	300	ND	300
Vinyl chloride	75-01-4	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Bromomethane	74-83-9	ND	300	ND	300	ND	300	ND	200	ND	200	ND	200
Chloroethane	75-00-3	ND	300	ND	400	ND	400	ND	300	ND	300	ND	300
Terichlorofluoromethane	75-69-4	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
1,1-Dichloroethene	75-35-4	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Methylene chloride	75-09-2	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
trans-1,2-Dichloroethene	156-60-5	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
1,1-Dichloroethane	75-34-3	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
cis-1,2-Dichloroethene	156-59-2	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Tetrahydrofuran	109-99-9	ND	1,000	ND	1,000	ND	1,000	ND	1,000	ND	1,000	ND	1,000

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		SB-103 (03/08/2012) (09-10)		SB-103 (03/08/2012) (12-13)		DUP-1 (03/08/2012) (SB-102)		Field Blank (03/07/2012)		Field Blank (03/08/2012)		Trip Blank (03/07/2012)	
Date Collected		3/8/2012		3/8/2012		3/8/2012		3/7/2012		3/8/2012		3/7/2012	
Collection Method		Grab		Grab		Grab		Grab		Grab		Grab	
VOLATILE ORGANICS COMPOUNDS (VOCs) - continued													
Date Analyzed		3/9/2012		3/9/2012		3/9/2012		3/9/2012		3/9/2012		3/9/2012	
Analytical Method Number		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035	
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Chloroform	67-66-3	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Bromochloromethane	74-97-5	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
1,1,1-Trichlororthane	71-55-6	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
4-Methyl-2-pentanone (MIBK)	10810-1	ND	3,000	ND	4,000	ND	4,000	ND	3,000	ND	3,000	ND	3,000
2-Hexanone	591-78-6	ND	3,000	ND	4,000	ND	4,000	ND	3,000	ND	3,000	ND	3,000
Carbon tetrachloride	56-23-5	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Benzene	71-43-2	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
1,2-Dichloroethane	107-06-2	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Trichloroethene	79-01-6	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
1,2-Dichloropropane	78-87-5	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Bromodichloromethane	75-27-4	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Dibromomethane	74-95-3	ND	300	ND	400	ND	400	ND	300	ND	300	ND	300
cis-1,3-Dichloropropane	10061-01-5	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Toluene	108-88-3	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
trans-1,3-Dichloropropane	10061-02-6	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
1,1,2-Trichloroethane	79-00-5	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Tetrachloroethene	127-18-4	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
trans-1,4-Dichloro-2-butene	110-57-6	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Dibromochloromethane	124-48-1	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
1,2-Dibromoethane	106-93-4	ND	30	ND	30	ND	30	ND	20	ND	20	ND	20
Chlorobenzene	108-90-7	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
1,1,1,2-Teterchloroethane	630-20-6	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Ethylbenzene	100-41-4	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
p,m-Xylene	No CAS #	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
o-Xylene	95-47-6	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Styrene	100-42-5	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Isopropylbenzene	98-82-8	ND	300	ND	400	ND	400	ND	300	ND	300	ND	300
Bromoform	75-25-2	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
1,1,2,2-Tetrachloroethane	79-34-5	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		SB-103 (03/08/2012) (09-10)		SB-103 (03/08/2012) (12-13)		DUP-1 (03/08/2012) (SB-102)		Field Blank (03/07/2012)		Field Blank (03/08/2012)		Trip Blank (03/07/2012)	
Date Collected		3/8/2012		3/8/2012		3/8/2012		3/7/2012		3/8/2012		3/7/2012	
Collection Method		Grab		Grab		Grab		Grab		Grab		Grab	
VOLATILE ORGANICS COMPOUNDS (VOCs) - continued													
Date Analyzed		3/9/2012		3/9/2012		3/9/2012		3/9/2012		3/9/2012		3/9/2012	
Analytical Method Number		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035	
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
1,2,3-Trichloropropane	96-18-4	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
n-Propylbenzene	103-65-1	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Bromobenzene	108-86-1	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
1,3,5-Trimethylbenzene	108-67-8	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
tert-Butylbenzene	98-06-6	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
1,2,4-Trimethylbenzene	95-63-6	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
sec-Butylbenzene	135-98-8	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
p-Isopropyltoluene	99-87-6	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
1,3-Dichlorobenzene	541-73-1	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
1,4-Dichlorobenzene	106-46-7	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
1,2-Dichlorobenzene	95-50-1	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
1,2,3-Trimethylbenzene	526-73-8	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
n-Butylbenzene	104-51-8	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Hexachloroethane	67-72-1	ND	400	ND	400	ND	400	ND	300	ND	300	ND	300
1,2-Dibromo-3-chloropropane	96-12-8	ND	300	ND	400	ND	400	ND	300	ND	300	ND	300
1,2,4-Trichlorobenzene	120-82-1	ND	450	ND	490	ND	460	ND	330	ND	330	ND	330
1,2,3-Trichlorobenzene	87-61-6	ND	450	ND	490	ND	460	ND	330	ND	330	ND	330
Naphthalene	91-20-3	ND	450	ND	490	ND	460	ND	330	ND	330	ND	330
2-Methylnaphthalene	91-57-6	ND	450	ND	490	ND	460	ND	330	ND	330	ND	330

Notes:
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ND = Not Detected

Applied *Eco*Systems, Inc.

Environmental Management, Consulting & Field Services

Soil Analytical Tables

Sampling Event - March 13, 2012

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		SB-104 (03/13/2012) (07-08)		SB-104 (03/13/2012) (16-17)		DUP-2 (03/13/2012) (SB-104)		Field Blank (03/13/2012)		Trip Blank (03/13/2012)			
Date Collected		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012			
Collection Method		Grab		Grab		Grab		Grab		Grab			
INORGANICS													
Date Analyzed		3/14-20/2012		3/14-20/2012		3/14-20/2012		NA		NA			
Analytical Method Number		Mulitple		Mulitple		Mulitple		NA		NA			
CONSTITUENT (mg/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Chromium VI	18540-29-9	ND	1	ND	1	ND	1	NA	NA	NA	NA		
Cyanide	57-12-5	ND	0.15	ND	0.15	ND	0.15	NA	NA	NA	NA		
METALS													
Date Analyzed		3/19/2012		3/19/2012		3/19/2012		NA		NA			
Metal Digestion		3/19/2012		3/19/2012		3/19/2012		NA		NA			
Analytical Method Number		6020, 7471A		6020, 7471A		6020, 7471A		NA		NA			
CONSTITUENT (mg/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Arsenic	7440-38-2	0.66	0.10	2.01	0.10	1.87	0.10	NA	NA	NA	NA		
Barium	7440-39-3	6.64	1.00	31.20	1.00	36.50	1.00	NA	NA	NA	NA		
Cadmium	7440-43-9	ND	0.20	ND	0.20	ND	0.20	NA	NA	NA	NA		
Chromium	7440-47-3	0.70	0.50	5.63	0.50	7.83	0.50	NA	NA	NA	NA		
Copper	7440-50-8	2.07	0.50	9.96	0.50	14.40	0.50	NA	NA	NA	NA		
Lead	7439-92-1	1.73	0.30	6.74	0.30	7.56	0.30	NA	NA	NA	NA		
Mercury	7439-97-6	ND	0.05	ND	0.05	ND	0.05	NA	NA	NA	NA		
Selenium	7782-49-2	ND	0.50	ND	0.50	ND	0.50	NA	NA	NA	NA		
Silver	7440-22-4	ND	0.20	ND	0.20	ND	0.20	NA	NA	NA	NA		
Zinc	7440-66-6	3.21	1.00	26.50	1.00	31.60	1.00	NA	NA	NA	NA		
POLYCHLORINATED BIPHENYLS (PCBs)/PESTICIDES													
Date Analyzed		3/15/2012		3/15/2012		3/15/2012		NA		NA			
Date Extracted		3/15/2012		3/15/2012		3/15/2012		NA		NA			
Analytical Method Number		8082A		8082A		8082A		NA		NA			
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
PCB-1016	12674-11-2	ND	330	ND	330	ND	330	NA	NA	NA	NA		
PCB-1242	53469-21-9	ND	330	ND	330	ND	330	NA	NA	NA	NA		
PCB-1221	11104-28-2	ND	330	ND	330	ND	330	NA	NA	NA	NA		
PCB-1232	11141-16-5	ND	330	ND	330	ND	330	NA	NA	NA	NA		
PCB-1248	12672-29-6	ND	330	ND	330	ND	330	NA	NA	NA	NA		
PCB-1254	11097-69-1	ND	330	ND	330	ND	330	NA	NA	NA	NA		
PCB-1260	11096-82-5	ND	330	ND	330	ND	330	NA	NA	NA	NA		

Notes:
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Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		SB-104 (03/13/2012) (07-08)		SB-104 (03/13/2012) (16-17)		DUP-2 (03/13/2012) (SB-104)		Field Blank (03/13/2012)		Trip Blank (03/13/2012)			
Date Collected		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012			
Collection Method		Grab		Grab		Grab		Grab		Grab			
SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs)													
Date Analyzed		3/19/2012		3/19/2012		3/19/2012		NA		NA			
Analytical Method Number		8270C		8270C		8270C		NA		NA			
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Acenaphthene	83-32-9	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Acenaphthylene	208-96-8	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Anthracene	120-12-7	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Benzo(a)anthracene	56-55-3	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Benzo(b)fluoranthene	205-99-2	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Benzo(k)fluoranthene	207-08-9	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Benzo(ghi)perylene	191-24-2	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Benzo(a)pyrene	50-32-8	ND	330	ND	330	ND	330	NA	NA	NA	NA		
bis(2-Chloroethoxy)methane	111-91-1	ND	330	ND	330	ND	330	NA	NA	NA	NA		
bis(2-Chloroethyl)ether	111-44-4	ND	330	ND	330	ND	330	NA	NA	NA	NA		
bis(2-Chloroisoprpyl)ether	108-60-1	ND	330	ND	330	ND	330	NA	NA	NA	NA		
bis(2-Ethylhexyl)phthalate	117-81-7	ND	330	ND	330	ND	330	NA	NA	NA	NA		
4-Bromophenyl phenyl ether	101-55-3	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Butyl benzyl phthalate	85-60-7	ND	330	ND	330	ND	330	NA	NA	NA	NA		
4-Chloroaniline	106-47-8	ND	330	ND	330	ND	330	NA	NA	NA	NA		
2-Chloronaphthalene	91-58-7	ND	330	ND	330	ND	330	NA	NA	NA	NA		
4-Chloro-3-methylphenol	59-50-7	ND	280	ND	280	ND	280	NA	NA	NA	NA		
2-Chlorophenol	95-57-8	ND	330	ND	330	ND	330	NA	NA	NA	NA		
4-Chlorophenyl phenyl ether	7005-72-3	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Chrysene	218-01-9	ND	330	ND	330	ND	330	NA	NA	NA	NA		
p,m-Cresol	3/4-Cresol	ND	330	ND	330	ND	330	NA	NA	NA	NA		
o-Cresol	95-48-7	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Dibenzo(ah)anthracene	53-70-3	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Dibenzofuran	132-64-9	ND	330	ND	330	ND	330	NA	NA	NA	NA		
di-n-Butyl phthalate	84-74-2	ND	330	ND	330	ND	330	NA	NA	NA	NA		
1,2-Dichlorobenzene	95-50-1	ND	330	ND	330	ND	330	NA	NA	NA	NA		
1,3-Dichlorobenzene	541-73-1	ND	330	ND	330	ND	330	NA	NA	NA	NA		
1,4-Dichlorobenzene	106-46-7	ND	330	ND	330	ND	330	NA	NA	NA	NA		
3,3-Dichlorobenzidine	91-94-1	ND	2,000	ND	2,000	ND	2,000	NA	NA	NA	NA		

Notes:
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ND = Not Detected

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		SB-104 (03/13/2012) (07-08)		SB-104 (03/13/2012) (16-17)		DUP-2 (03/13/2012) (SB-104)		Field Blank (03/13/2012)		Trip Blank (03/13/2012)			
Date Collected		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012			
Collection Method		Grab		Grab		Grab		Grab		Grab			
SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - continued													
Date Analyzed		3/19/2012		3/19/2012		3/19/2012		NA		NA			
Analytical Method Number		8270C		8270C		8270C		NA		NA			
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
2,4-Dichlorophenol	120-83-2	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Diethyl phthalate	84-66-2	ND	330	ND	330	ND	330	NA	NA	NA	NA		
2,4-Dimethylphenol	105-67-9	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Dimethyl phthalate	131-11-3	ND	330	ND	330	ND	330	NA	NA	NA	NA		
4,6-Dinitro-2-methylphenol	534-52-1	ND	830	ND	830	ND	830	NA	NA	NA	NA		
2,4-Dinitrophenol	51-28-5	ND	830	ND	830	ND	830	NA	NA	NA	NA		
2,4-Dinitrotoluene	121-14-2	ND	330	ND	330	ND	330	NA	NA	NA	NA		
2,6-Dinitrotoluene	606-20-2	ND	330	ND	330	ND	330	NA	NA	NA	NA		
1,2-Diphenylhydrazine	122-66-7	ND	330	ND	330	ND	330	NA	NA	NA	NA		
di-n-Octyl phthalate	117-84-0	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Fluoranthene	206-44-0	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Fluorene	86-73-7	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Hexachlorobenzene	118-74-1	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Hexachlorobutadiene	87-68-3	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Hexachlorocyclopentadiene	77-47-4	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Hexachloroethane	67-72-1	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Isophorone	78-59-1	ND	330	ND	330	ND	330	NA	NA	NA	NA		
2-Methylnaphthalene	91-57-6	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Naphthalene	91-20-3	ND	330	ND	330	ND	330	NA	NA	NA	NA		
2-Nitroaniline	88-74-4	ND	830	ND	830	ND	830	NA	NA	NA	NA		
3-Nitroaniline	99-09-2	ND	830	ND	830	ND	830	NA	NA	NA	NA		
4-Nitroaniline	100-01-6	ND	830	ND	830	ND	830	NA	NA	NA	NA		
Nitrobenzene	98-95-3	ND	330	ND	330	ND	330	NA	NA	NA	NA		
2-Nitrophenol	88-75-5	ND	330	ND	330	ND	330	NA	NA	NA	NA		
4-Nitrophenol	100-02-7	ND	830	ND	830	ND	830	NA	NA	NA	NA		
N-Nitrosodiphenylamine	86-30-6	ND	330	ND	330	ND	330	NA	NA	NA	NA		
N-Nitrsodi-n-propylamine	621-64-7	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Pentachlorophenol	87-86-5	ND	330	ND	330	ND	330	NA	NA	NA	NA		

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Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		SB-104 (03/13/2012) (07-08)		SB-104 (03/13/2012) (16-17)		DUP-2 (03/13/2012) (SB-104)		Field Blank (03/13/2012)		Trip Blank (03/13/2012)			
Date Collected		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012			
Collection Method		Grab		Grab		Grab		Grab		Grab			
SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - continued													
Date Analyzed		3/19/2012		3/19/2012		3/19/2012		NA		NA			
Analytical Method Number		8270C		8270C		8270C		NA		NA			
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Phenanthrene	85-01-8	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Phenol	108-95-2	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Pyrene	129-00-0	ND	330	ND	330	ND	330	NA	NA	NA	NA		
1,2,4-Trichlorobenzene	120-82-1	ND	330	ND	330	ND	330	NA	NA	NA	NA		
2,4,5-Trichlorophenol	95-95-4	ND	330	ND	330	ND	330	NA	NA	NA	NA		
2,4,6-Trichorophenol	88-06-2	ND	330	ND	330	ND	330	NA	NA	NA	NA		
VOLATILE ORGANICS COMPOUNDS (VOCs)													
Date Analyzed		3/19/2012		3/19/2012		3/19/2012		3/19/2012		3/19/2012			
Analytical Method Number		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035			
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Diethyl ether	60-29-7	ND	200	ND	300	ND	300	ND	200	ND	200		
Acetone	67-64-1	ND	1,000	ND	2,000	ND	2,000	ND	1,000	ND	1,000		
Methyl iodide	74-88-4	ND	100	ND	200	ND	200	ND	100	ND	100		
Carbon disulfide	75-15-0	ND	300	ND	400	ND	400	ND	300	ND	300		
tert-Methyl butyl ether (MTBE)	1634-04-4	ND	200	ND	300	ND	300	ND	200	ND	200		
Acrylonitrile	107-13-1	ND	100	ND	200	ND	200	ND	100	ND	100		
2-Butanone (MEK)	78-93-3	ND	860	ND	1,200	ND	1,300	ND	750	ND	750		
Dichlorodifluoromethane	75-71-8	ND	300	ND	400	ND	400	ND	300	ND	300		
Chloromethane	74-87-3	ND	300	ND	400	ND	400	ND	300	ND	300		
Vinyl chloride	75-01-4	ND	60	ND	80	ND	90	ND	50	ND	50		
Bromomethane	74-83-9	ND	200	ND	300	ND	300	ND	200	ND	200		
Chloroethane	75-00-3	ND	300	ND	400	ND	400	ND	300	ND	300		
Terichlorofluoromethane	75-69-4	ND	100	ND	200	ND	200	ND	100	ND	100		
1,1-Dichloroethene	75-35-4	ND	60	ND	80	ND	90	ND	50	ND	50		
Methylene chloride	75-09-2	ND	100	ND	200	ND	200	ND	100	ND	100		
trans-1,2-Dichloroethene	156-60-5	ND	60	ND	80	ND	90	ND	50	ND	50		
1,1-Dichloroethane	75-34-3	ND	60	ND	80	ND	90	ND	50	ND	50		
cis-1,2-Dichloroethene	156-59-2	ND	60	120	80	130	90	ND	50	ND	50		
Tetrahydrofuran	109-99-9	ND	1,000	ND	2,000	ND	2,000	ND	1,000	ND	1,000		

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		SB-104 (03/13/2012) (07-08)		SB-104 (03/13/2012) (16-17)		DUP-2 (03/13/2012) (SB-104)		Field Blank (03/13/2012)		Trip Blank (03/13/2012)			
Date Collected		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012			
Collection Method		Grab		Grab		Grab		Grab		Grab			
VOLATILE ORGANICS COMPOUNDS (VOCs) - continued													
Date Analyzed		3/19/2012		3/19/2012		3/19/2012		3/19/2012		3/19/2012			
Analytical Method Number		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035			
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Chloroform	67-66-3	ND	60	ND	80	ND	90	ND	50	ND	50		
Bromochloromethane	74-97-5	ND	100	ND	200	ND	200	ND	100	ND	100		
1,1,1-Trichlororthane	71-55-6	ND	60	ND	80	ND	90	ND	50	ND	50		
4-Methyl-2-pentanone (MIBK)	10810-1	ND	3,000	ND	4,000	ND	4,000	ND	3,000	ND	3,000		
2-Hexanone	591-78-6	ND	3,000	ND	4,000	ND	4,000	ND	3,000	ND	3,000		
Carbon tetrachloride	56-23-5	ND	60	ND	80	ND	90	ND	50	ND	50		
Benzene	71-43-2	ND	60	*210 (D-100)*	80	210	90	ND	50	ND	50		
1,2-Dichloroethane	107-06-2	ND	60	ND	80	ND	90	ND	50	ND	50		
Trichloroethene	79-01-6	ND	60	ND	80	ND	90	ND	50	ND	50		
1,2-Dichloropropane	78-87-5	ND	60	ND	80	ND	90	ND	50	ND	50		
Bromodichloromethane	75-27-4	ND	100	ND	200	ND	200	ND	100	ND	100		
Dibromomethane	74-95-3	ND	300	ND	400	ND	400	ND	300	ND	300		
cis-1,3-Dichloropropane	10061-01-5	ND	60	ND	80	ND	90	ND	50	ND	50		
Toluene	108-88-3	ND	100	ND	200	ND	200	ND	100	ND	100		
trans-1,3-Dichloropropane	10061-02-6	ND	60	ND	80	ND	90	ND	50	ND	50		
1,1,2-Trichloroethane	79-00-5	ND	60	ND	80	ND	90	ND	50	ND	50		
Tetrachloroethene	127-18-4	ND	60	ND	80	ND	90	ND	50	ND	50		
trans-1,4-Dichloro-2-butene	110-57-6	ND	60	ND	80	ND	90	ND	50	ND	50		
Dibromochloromethane	124-48-1	ND	100	ND	200	ND	200	ND	100	ND	100		
1,2-Dibromoethane	106-93-4	ND	20	ND	30	ND	30	ND	20	ND	20		
Chlorobenzene	108-90-7	ND	60	ND	80	ND	90	ND	50	ND	50		
1,1,1,2-Teterchloroethane	630-20-6	ND	100	ND	200	ND	200	ND	100	ND	100		
Ethylbenzene	100-41-4	ND	60	ND	80	ND	90	ND	50	ND	50		
p,m-Xylene	No CAS #	ND	100	ND	200	ND	200	ND	100	ND	100		
o-Xylene	95-47-6	ND	60	ND	80	ND	90	ND	50	ND	50		
Styrene	100-42-5	ND	60	ND	80	ND	90	ND	50	ND	50		
Isopropylbenzene	98-82-8	ND	300	ND	400	ND	400	ND	300	ND	300		
Bromoform	75-25-2	ND	100	ND	200	ND	200	ND	100	ND	100		
1,1,2,2-Tetrachloroethane	79-34-5	ND	60	ND	80	ND	90	ND	50	ND	50		

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

D = Residential Drinking Water Criterion

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		SB-104 (03/13/2012) (07-08)		SB-104 (03/13/2012) (16-17)		DUP-2 (03/13/2012) (SB-104)		Field Blank (03/13/2012)		Trip Blank (03/13/2012)			
Date Collected		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012			
Collection Method		Grab		Grab		Grab		Grab		Grab			
VOLATILE ORGANICS COMPOUNDS (VOCs) - continued													
Date Analyzed		3/19/2012		3/19/2012		3/19/2012		3/19/2012		3/19/2012			
Analytical Method Number		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035			
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
1,2,3-Trichloropropane	96-18-4	ND	100	ND	200	ND	200	ND	100	ND	100		
n-Propylbenzene	103-65-1	ND	100	ND	200	ND	200	ND	100	ND	100		
Bromobenzene	108-86-1	ND	100	ND	200	ND	200	ND	100	ND	100		
1,3,5-Trimethylbenzene	108-67-8	ND	100	ND	200	ND	200	ND	100	ND	100		
tert-Butylbenzene	98-06-6	ND	60	ND	80	ND	90	ND	50	ND	50		
1,2,4-Trimethylbenzene	95-63-6	ND	100	ND	200	ND	200	ND	100	ND	100		
sec-Butylbenzene	135-98-8	ND	60	ND	80	ND	90	ND	50	ND	50		
p-Isopropyltoluene	99-87-6	ND	100	ND	200	ND	200	ND	100	ND	100		
1,3-Dichlorobenzene	541-73-1	ND	100	ND	200	ND	200	ND	100	ND	100		
1,4-Dichlorobenzene	106-46-7	ND	100	ND	200	ND	200	ND	100	ND	100		
1,2-Dichlorobenzene	95-50-1	ND	100	ND	200	ND	200	ND	100	ND	100		
1,2,3-Trimethylbenzene	526-73-8	ND	100	ND	200	ND	200	ND	100	ND	100		
n-Butylbenzene	104-51-8	ND	60	ND	80	ND	90	ND	50	ND	50		
Hexachloroethane	67-72-1	ND	300	ND	500	ND	500	ND	300	ND	300		
1,2-Dibromo-3-chloropropane	96-12-8	ND	300	ND	400	ND	400	ND	300	ND	300		
1,2,4-Trichlorobenzene	120-82-1	ND	380	ND	510	ND	560	ND	330	ND	330		
1,2,3-Trichlorobenzene	87-61-6	ND	380	ND	510	ND	560	ND	330	ND	330		
Naphthalene	91-20-3	ND	380	ND	510	ND	560	ND	330	ND	330		
2-Methylnaphthalene	91-57-6	ND	380	ND	510	ND	560	ND	330	ND	330		

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

Applied *Eco*Systems, Inc.

Environmental Management, Consulting & Field Services

Groundwater Analytical Tables

Sampling Event - March 26, 2012

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

WATER VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		MW-100S (03/07/2012)		MW-101S (03/08/2012)		MW-102S (03/08/2012)		MW-103S (03/13/2012)		DUP (03/26/2012) (MW-103S)		Trip Blank (03/23/2012)	
Sample Depth (feet BGS)		5'-15'		9'-19'		9'-19'		5'-15'		5'-15'		NA	
Date Collected		3/26/2012		3/26/2012		3/26/2012		3/26/2012		3/26/2012		3/26/2012	
Collection Method		Grab		Grab		Grab		Grab		Grab		Grab	
INORGANICS													
Date Analyzed		3/27-4/2/2012		3/27-4/2/2012		3/27-4/2/2012		3/27-4/2/2012		3/27-4/2/2012		NA	
Analytical Method Number		Multiple		Multiple		Multiple		Multiple		Multiple		NA	
CONSTITUENT (mg/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Alkalinity as CaCO3	No CAS #	438.00	2.00	352.00	2.00	420.00	2.00	512.00	2.00	508.00	2.00	NA	NA
Ammonia-N	7664-41-7	ND	0.02	ND	0.02	ND	0.02	0.63	0.02	0.64	0.02	NA	NA
Chloride	16887-006	5.00	5.00	12.00	5.00	25.00	5.00	7.00	5.00	7.00	5.00	NA	NA
Chromium VI	18540-29-9	ND	0.02	ND	0.02	ND	0.02	ND	0.02	ND	0.02	NA	NA
Hardness	No CAS #	290.00	1.00	187.00	1.00	389.00	1.00	502.00	1.00	497.00	1.00	NA	NA
Nitrate-N	14797-55-8	ND	0.50	0.80	0.50	1.70	0.50	ND	0.50	ND	0.50	NA	NA
Nitrite-N	14797-65-0	19.00	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	NA	NA
Sulfate	14808-79-8	4.00	5.00	18.00	5.00	42.00	5.00	9.00	5.00	10.00	5.00	NA	NA
TOC	No CAS #	468.00	1.00	1.20	1.00	1.40	1.00	10.10	1.00	11.20	1.00	NA	NA
Total Dissolved Solids	No CAS #	ND	1.00	316.00	1.00	488.00	1.00	476.00	1.00	500.00	1.00	NA	NA
METALS													
Date Analyzed		3/29/2012		3/29/2012		3/29/2012		3/29/2012		3/29/2012		NA	
Metal Digestion		3/29/2012		3/29/2012		3/29/2012		3/29/2012		3/29/2012		NA	
Analytical Method Number		200.8; 245.1		200.8; 245.1		200.8; 245.1		200.8; 245.1		200.8; 245.1		NA	
CONSTITUENT (mg/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Arsenic	7440-38-2	ND	0.0020	ND	0.0020	0.002	0.0020	*0.048 (D,G-.01)*	0.0020	*0.05 (D,G-.01)*	0.0020	NA	NA
Barium	7440-39-3	0.048	0.0050	0.028	0.0050	0.065	0.0050	0.243	0.0050	0.255	0.0050	NA	NA
Cadmium	7440-43-9	ND	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	NA	NA
Chromium	7440-47-3	ND	0.0050	ND	0.0050	0.018	0.0050	0.007	0.0050	0.006	0.0050	NA	NA
Copper	7440-50-8	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	NA	NA
Lead	7439-92-1	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	NA	NA
Mercury	7439-97-6	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	NA	NA
Selenium	7782-49-2	*0.006 (G-.005)*	0.0050	*0.006 (G-.005)*	0.0050	*0.008 (G-.005)*	0.0050	ND	0.0050	*0.006 (G-.005)*	0.0050	NA	NA
Silver	7440-22-4	ND	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	NA	NA
Zinc	7440-66-6	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	NA	NA
POLYCHLORINATED BIPHENYLS (PCBs)/PESTICIDES													
Date Analyzed		3/28/2012		3/28/2012		3/28/2012		3/29/2012		3/29/2012		NA	
Date Extracted		3/27/2012		3/27/2012		3/27/2012		3/27/2012		3/27/2012		NA	
Analytical Method Number		608		608		608		608		608		NA	
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
PCB-1016	12674-11-2	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1	NA	NA
PCB-1242	53469-21-9	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1	NA	NA
PCB-1221	11104-28-2	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1	NA	NA
PCB-1232	11141-16-5	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1	NA	NA
PCB-1248	12672-29-6	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1	NA	NA
PCB-1254	11097-69-1	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1	NA	NA
PCB-1260	11096-82-5	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1	NA	NA
PCB, Total	1336-36-3	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1	NA	NA

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

D - Drinking Water Criterion
G - Groundwater to Surface Water Interface Criterion

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

WATER VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		MW-100S (03/07/2012)		MW-101S (03/08/2012)		MW-102S (03/08/2012)		MW-103S (03/13/2012)		DUP (03/26/2012) (MW-103S)		Trip Blank (03/23/2012)	
Sample Depth (feet BGS)		5'-15'		9'-19'		9'-19'		5'-15'		5'-15'		NA	
Date Collected		3/26/2012		3/26/2012		3/26/2012		3/26/2012		3/26/2012		3/26/2012	
Collection Method		Grab		Grab		Grab		Grab		Grab		Grab	
SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs)													
Date Analyzed		3/29/2012		3/29/2012		3/29/2012		3/29/2012		3/29/2012		NA	
Analytical Method Number		8270C		8270C		8270C		8270C		8270C		NA	
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Acenaphthene	83-32-9	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Acenaphthylene	208-96-8	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Anthracene	120-12-7	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Benzo(a)anthracene	56-55-3	ND	1	ND	1	ND	1	ND	13	ND	1	NA	NA
Benzo(b)fluoranthene	205-99-2	ND	1	ND	1	ND	1	ND	13	ND	1	NA	NA
Benzo(k)fluoranthene	207-08-9	ND	1	ND	1	ND	1	ND	13	ND	1	NA	NA
Benzo(ghi)perylene	191-24-2	ND	1	ND	1	ND	1	ND	13	ND	1	NA	NA
Benzo(a)pyrene	50-32-8	ND	1	ND	1	ND	1	ND	13	ND	1	NA	NA
bis(2-Chloroethoxy)methane	111-91-1	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
bis(2-Chloroethyl)ether	111-44-4	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
bis(2-Chloroisoprpyl)ether	108-60-1	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
bis(2-Ethylhexyl)phthalate	117-81-7	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
4-Bromophenyl phenyl ether	101-55-3	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Butyl benzyl phthalate	85-60-7	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
4-Chloroaniline	106-47-8	ND	10	ND	10	ND	10	ND	13	ND	10	NA	NA
2-Chloronaphthalene	91-58-7	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
4-Chloro-3-methylphenol	59-50-7	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
2-Chlorophenol	95-57-8	ND	10	ND	10	ND	10	ND	13	ND	10	NA	NA
4-Chlorophenyl phenyl ether	7005-72-3	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Chrysene	218-01-9	ND	1	ND	1	ND	1	ND	13	ND	1	NA	NA
p,m-Cresol	3/4-Cresol	ND	20	ND	20	ND	20	ND	26	ND	20	NA	NA
o-Cresol	95-48-7	ND	10	ND	10	ND	10	ND	13	ND	10	NA	NA
Dibenzo(ah)anthracene	53-70-3	ND	2	ND	2	ND	2	ND	13	ND	2	NA	NA
Dibenzofuran	132-64-9	ND	4	ND	4	ND	4	ND	13	ND	4	NA	NA
di-n-Butyl phthalate	84-74-2	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
1,2-Dichlorobenzene	95-50-1	ND	1	ND	1	ND	1	ND	13	ND	1	NA	NA
1,3-Dichlorobenzene	541-73-1	ND	1	ND	1	ND	1	ND	13	ND	1	NA	NA
1,4-Dichlorobenzene	106-46-7	ND	1	ND	1	ND	1	ND	13	ND	1	NA	NA
3,3-Dichlorobenzidine	91-94-1	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

WATER VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		MW-100S (03/07/2012)		MW-101S (03/08/2012)		MW-102S (03/08/2012)		MW-103S (03/13/2012)		DUP (03/26/2012) (MW-103S)		Trip Blank (03/23/2012)	
Sample Depth (feet BGS)		5'-15'		9'-19'		9'-19'		5'-15'		5'-15'		NA	
Date Collected		3/26/2012		3/26/2012		3/26/2012		3/26/2012		3/26/2012		3/26/2012	
Collection Method		Grab		Grab		Grab		Grab		Grab		Grab	
SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - continued													
Date Analyzed		3/29/2012		3/29/2012		3/29/2012		3/29/2012		3/29/2012		NA	
Analytical Method Number		8270C		8270C		8270C		8270C		8270C		NA	
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
2,4-Dichlorophenol	120-83-2	ND	10	ND	10	ND	10	ND	13	ND	10	NA	NA
Diethyl phthalate	84-66-2	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
2,4-Dimethylphenol	105-67-9	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Dimethyl phthalate	131-11-3	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
4,6-Dinitro-2-methylphenol	534-52-1	ND	20	ND	20	ND	20	ND	20	ND	20	NA	NA
2,4-Dinitrophenol	51-28-5	ND	25	ND	25	ND	25	ND	25	ND	25	NA	NA
2,4-Dinitrotoluene	121-14-2	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
2,6-Dinitrotoluene	606-20-2	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
1,2-Diphenylhydrazine	122-66-7	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
di-n-Octyl phthalate	117-84-0	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Fluoranthene	206-44-0	ND	1	ND	1	ND	1	ND	13	ND	1	NA	NA
Fluorene	86-73-7	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Hexachlorobenzene	118-74-1	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Hexachlorobutadiene	87-68-3	ND	10	ND	10	ND	10	ND	13	ND	10	NA	NA
Hexachlorocyclopentadiene	77-47-4	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Hexachloroethane	67-72-1	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Indeno(1,2,3-cd)pyrene	193-39-5	ND	2	ND	2	ND	2	ND	13	ND	2	NA	NA
Isophorone	78-59-1	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
2-Methylnaphthalene	91-57-6	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Naphthalene	91-20-3	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
2-Nitroaniline	88-74-4	ND	25	ND	25	ND	25	ND	25	ND	25	NA	NA
3-Nitroaniline	99-09-2	ND	25	ND	25	ND	25	ND	25	ND	25	NA	NA
4-Nitroaniline	100-01-6	ND	25	ND	25	ND	25	ND	25	ND	25	NA	NA
Nitrobenzene	98-95-3	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
2-Nitrophenol	88-75-5	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
4-Nitrophenol	100-02-7	ND	25	ND	25	ND	25	ND	25	ND	25	NA	NA
N-Nitrosodiphenylamine	86-30-6	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
N-Nitrsodi-n-propylamine	621-64-7	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Pentachlorophenol	87-86-5	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

WATER VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		MW-100S (03/07/2012)		MW-101S (03/08/2012)		MW-102S (03/08/2012)		MW-103S (03/13/2012)		DUP (03/26/2012) (MW-103S)		Trip Blank (03/23/2012)	
Sample Depth (feet BGS)		5'-15'		9'-19'		9'-19'		5'-15'		5'-15'		NA	
Date Collected		3/26/2012		3/26/2012		3/26/2012		3/26/2012		3/26/2012		3/26/2012	
Collection Method		Grab		Grab		Grab		Grab		Grab		Grab	
SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - continued													
Date Analyzed		3/29/2012		3/29/2012		3/29/2012		3/29/2012		3/29/2012		NA	
Analytical Method Number		8270C		8270C		8270C		8270C		8270C		NA	
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Phenanthrene	85-01-8	ND	2	ND	2	ND	2	*13*	13	ND	2	NA	NA
Phenol	108-95-2	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Pyrene	129-00-0	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
1,2,4-Trichlorobenzene	120-82-1	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
2,4,5-Trichlorophenol	95-95-4	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
2,4,6-Trichorophenol	88-06-2	ND	4	ND	4	ND	4	ND	13	ND	4	NA	NA
VOLATILE ORGANICS COMPOUNDS (VOCs)													
Date Analyzed		3/31/2012		3/31/2012		3/31/2012		3/31/2012		3/31/2012		3/31/2012	
Analytical Method Number		8260B		8260B		8260B		8260B		8260B		8260B	
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Diethyl ether	60-29-7	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Acetone	67-64-1	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50
Methyl iodide	74-88-4	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Carbon disulfide	75-15-0	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
tert-Methyl butyl ether (MTBE)	1634-04-4	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Acrylonitrile	107-13-1	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
2-Butanone (MEK)	78-93-3	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Dichlorodifluoromethane	75-71-8	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Chloromethane	74-87-3	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Vinyl chloride	75-01-4	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Bromomethane	74-83-9	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Chloroethane	75-00-3	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Terichlorofluoromethane	75-69-4	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,1-Dichloroethene	75-35-4	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Methylene chloride	75-09-2	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
trans-1,2-Dichloroethene	156-60-5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,1-Dichloroethane	75-34-3	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
cis-1,2-Dichloroethene	156-59-2	3	1	ND	1	ND	1	ND	1	ND	1	ND	1
Tetrahydrofuran	109-99-9	ND	90	ND	90	ND	90	ND	90	ND	90	ND	90

Notes:
Results in parts per billion
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ND = Not Detected

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

WATER VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		MW-100S (03/07/2012)		MW-101S (03/08/2012)		MW-102S (03/08/2012)		MW-103S (03/13/2012)		DUP (03/26/2012) (MW-103S)		Trip Blank (03/23/2012)	
Sample Depth (feet BGS)		5'-15'		9'-19'		9'-19'		5'-15'		5'-15'		NA	
Date Collected		3/26/2012		3/26/2012		3/26/2012		3/26/2012		3/26/2012		3/26/2012	
Collection Method		Grab		Grab		Grab		Grab		Grab		Grab	
VOLATILE ORGANICS COMPOUNDS (VOCs) - continued													
Date Analyzed		3/31/2012		3/31/2012		3/31/2012		3/31/2012		3/31/2012		3/31/2012	
Analytical Method Number		8260B		8260B		8260B		8260B		8260B		8260B	
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Chloroform	67-66-3	1	1	ND	1	ND	1	ND	1	ND	1	ND	1
Bromochloromethane	74-97-5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,1,1-Trichlororthane	71-55-6	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
4-Methyl-2-pentanone (MIBK)	10810-1	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50
2-Hexanone	591-78-6	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50
Carbon tetrachloride	56-23-5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Benzene	71-43-2	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,2-Dichloroethane	107-06-2	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Trichloroethene	79-01-6	*11 (D-5.0)*	1	*7 (D-5.0)*	1	ND	1	ND	1	ND	1	ND	1
1,2-Dichloropropane	78-87-5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Bromodichloromethane	75-27-4	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Dibromomethane	74-95-3	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
cis-1,3-Dichloropropane	10061-01-5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Toluene	108-88-3	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
trans-1,3-Dichloropropane	10061-02-6	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,1,2-Trichloroethane	79-00-5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Tetrachloroethene	127-18-4	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
trans-1,4-Dichloro-2-butene	110-57-6	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Dibromochloromethane	124-48-1	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2-Dibromoethane	106-93-4	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Chlorobenzene	108-90-7	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,1,1,2-Teterchloroethane	630-20-6	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Ethylbenzene	100-41-4	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
p,m-Xylene	No CAS #	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
o-Xylene	95-47-6	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Styrene	100-42-5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Isopropylbenzene	98-82-8	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Bromoform	75-25-2	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,1,2,2-Tetrachloroethane	79-34-5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

D - Drinking Water Criterion

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

WATER VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		MW-100S (03/07/2012)		MW-101S (03/08/2012)		MW-102S (03/08/2012)		MW-103S (03/13/2012)		DUP (03/26/2012) (MW-103S)		Trip Blank (03/23/2012)	
Sample Depth (feet BGS)		5'-15'		9'-19'		9'-19'		5'-15'		5'-15'		NA	
Date Collected		3/26/2012		3/26/2012		3/26/2012		3/26/2012		3/26/2012		3/26/2012	
Collection Method		Grab		Grab		Grab		Grab		Grab		Grab	
VOLATILE ORGANICS COMPOUNDS (VOCs) - continued													
Date Analyzed		3/31/2012		3/31/2012		3/31/2012		3/31/2012		3/31/2012		3/31/2012	
Analytical Method Number		8260B		8260B		8260B		8260B		8260B		8260B	
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
1,2,3-Trichloropropane	96-18-4	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
n-Propylbenzene	103-65-1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Bromobenzene	108-86-1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,3,5-Trimethylbenzene	108-67-8	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
tert-Butylbenzene	98-06-6	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,2,4-Trimethylbenzene	95-63-6	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
sec-Butylbenzene	135-98-8	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
p-Isopropyltoluene	99-87-6	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,3-Dichlorobenzene	541-73-1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,4-Dichlorobenzene	106-46-7	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,2-Dichlorobenzene	95-50-1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,2,3-Trimethylbenzene	526-73-8	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
n-Butylbenzene	104-51-8	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Hexachloroethane	67-72-1	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2-Dibromo-3-chloropropane	96-12-8	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2,4-Trichlorobenzene	120-82-1	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2,3-Trichlorobenzene	87-61-6	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Naphthalene	91-20-3	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
2-Methylnaphthalene	91-57-6	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5

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Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

WATER VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		Field Blank (03/26/2012)											
Sample Depth (feet BGS)		NA											
Date Collected		3/26/2012											
Collection Method		Grab											
INORGANICS													
Date Analyzed		NA											
Analytical Method Number		NA											
CONSTITUENT (mg/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Alkalinity as CaCO3	No CAS #	NA	NA										
Ammonia-N	7664-41-7	NA	NA										
Chloride	16887-006	NA	NA										
Chromium VI	18540-29-9	NA	NA										
Hardness	No CAS #	NA	NA										
Nitrate-N	14797-55-8	NA	NA										
Nitrite-N	14797-65-0	NA	NA										
Sulfate	14808-79-8	NA	NA										
TOC	No CAS #	NA	NA										
Total Dissolved Solids	No CAS #	NA	NA										
METALS													
Date Analyzed		NA											
Metal Digestion		NA											
Analytical Method Number		NA											
CONSTITUENT (mg/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Arsenic	7440-38-2	NA	NA										
Barium	7440-39-3	NA	NA										
Cadmium	7440-43-9	NA	NA										
Chromium	7440-47-3	NA	NA										
Copper	7440-50-8	NA	NA										
Lead	7439-92-1	NA	NA										
Mercury	7439-97-6	NA	NA										
Selenium	7782-49-2	NA	NA										
Silver	7440-22-4	NA	NA										
Zinc	7440-66-6	NA	NA										
POLYCHLORINATED BIPHENYLS (PCBs)/PESTICIDES													
Date Analyzed		NA											
Date Extracted		NA											
Analytical Method Number		NA											
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
PCB-1016	12674-11-2	NA	NA										
PCB-1242	53469-21-9	NA	NA										
PCB-1221	11104-28-2	NA	NA										
PCB-1232	11141-16-5	NA	NA										
PCB-1248	12672-29-6	NA	NA										
PCB-1254	11097-69-1	NA	NA										
PCB-1260	11096-82-5	NA	NA										
PCB, Total	1336-36-3	NA	NA										

Notes:
Results in parts per billion
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Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

WATER VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		Field Blank (03/26/2012)											
Sample Depth (feet BGS)		NA											
Date Collected		3/26/2012											
Collection Method		Grab											
SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs)													
Date Analyzed		NA											
Analytical Method Number		NA											
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Acenaphthene	83-32-9	NA	NA										
Acenaphthylene	208-96-8	NA	NA										
Anthracene	120-12-7	NA	NA										
Benzo(a)anthracene	56-55-3	NA	NA										
Benzo(b)fluoranthene	205-99-2	NA	NA										
Benzo(k)fluoranthene	207-08-9	NA	NA										
Benzo(ghi)perylene	191-24-2	NA	NA										
Benzo(a)pyrene	50-32-8	NA	NA										
bis(2-Chloroethoxy)methane	111-91-1	NA	NA										
bis(2-Chloroethyl)ether	111-44-4	NA	NA										
bis(2-Chloroisoprpyl)ether	108-60-1	NA	NA										
bis(2-Ethylhexyl)phthalate	117-81-7	NA	NA										
4-Bromophenyl phenyl ether	101-55-3	NA	NA										
Butyl benzyl phthalate	85-60-7	NA	NA										
4-Chloroaniline	106-47-8	NA	NA										
2-Chloronaphthalene	91-58-7	NA	NA										
4-Chloro-3-methylphenol	59-50-7	NA	NA										
2-Chlorophenol	95-57-8	NA	NA										
4-Chlorophenyl phenyl ether	7005-72-3	NA	NA										
Chrysene	218-01-9	NA	NA										
p,m-Cresol	3/4-Cresol	NA	NA										
o-Cresol	95-48-7	NA	NA										
Dibenzo(ah)anthracene	53-70-3	NA	NA										
Dibenzofuran	132-64-9	NA	NA										
di-n-Butyl phthalate	84-74-2	NA	NA										
1,2-Dichlorobenzene	95-50-1	NA	NA										
1,3-Dichlorobenzene	541-73-1	NA	NA										
1,4-Dichlorobenzene	106-46-7	NA	NA										
3,3-Dichlorobenzidine	91-94-1	NA	NA										

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Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

WATER VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		Field Blank (03/26/2012)											
Sample Depth (feet BGS)		NA											
Date Collected		3/26/2012											
Collection Method		Grab											
SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - continued													
Date Analyzed		NA											
Analytical Method Number		NA											
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
2,4-Dichlorophenol	120-83-2	NA	NA										
Diethyl phthalate	84-66-2	NA	NA										
2,4-Dimethylphenol	105-67-9	NA	NA										
Dimethyl phthalate	131-11-3	NA	NA										
4,6-Dinitro-2-methylphenol	534-52-1	NA	NA										
2,4-Dinitrophenol	51-28-5	NA	NA										
2,4-Dinitrotoluene	121-14-2	NA	NA										
2,6-Dinitrotoluene	606-20-2	NA	NA										
1,2-Diphenylhydrazine	122-66-7	NA	NA										
di-n-Octyl phthalate	117-84-0	NA	NA										
Fluoranthene	206-44-0	NA	NA										
Fluorene	86-73-7	NA	NA										
Hexachlorobenzene	118-74-1	NA	NA										
Hexachlorobutadiene	87-68-3	NA	NA										
Hexachlorocyclopentadiene	77-47-4	NA	NA										
Hexachloroethane	67-72-1	NA	NA										
Indeno(1,2,3-cd)pyrene	193-39-5	NA	NA										
Isophorone	78-59-1	NA	NA										
2-Methylnaphthalene	91-57-6	NA	NA										
Naphthalene	91-20-3	NA	NA										
2-Nitroaniline	88-74-4	NA	NA										
3-Nitroaniline	99-09-2	NA	NA										
4-Nitroaniline	100-01-6	NA	NA										
Nitrobenzene	98-95-3	NA	NA										
2-Nitrophenol	88-75-5	NA	NA										
4-Nitrophenol	100-02-7	NA	NA										
N-Nitrosodiphenylamine	86-30-6	NA	NA										
N-Nitrsodi-n-propylamine	621-64-7	NA	NA										
Pentachlorophenol	87-86-5	NA	NA										

Notes:
Results in parts per billion
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ND = Not Detected

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

WATER VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		Field Blank (03/26/2012)											
Sample Depth (feet BGS)		NA											
Date Collected		3/26/2012											
Collection Method		Grab											
SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - continued													
Date Analyzed		NA											
Analytical Method Number		NA											
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Phenanthrene	85-01-8	NA	NA										
Phenol	108-95-2	NA	NA										
Pyrene	129-00-0	NA	NA										
1,2,4-Trichlorobenzene	120-82-1	NA	NA										
2,4,5-Trichlorophenol	95-95-4	NA	NA										
2,4,6-Trichorophenol	88-06-2	NA	NA										
VOLATILE ORGANICS COMPOUNDS (VOCs)													
Date Analyzed		3/31/2012											
Analytical Method Number		8260B											
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Diethyl ether	60-29-7	ND	10										
Acetone	67-64-1	ND	50										
Methyl iodide	74-88-4	ND	1										
Carbon disulfide	75-15-0	ND	5										
tert-Methyl butyl ether (MTBE)	1634-04-4	ND	5										
Acrylonitrile	107-13-1	ND	2										
2-Butanone (MEK)	78-93-3	ND	25										
Dichlorodifluoromethane	75-71-8	ND	5										
Chloromethane	74-87-3	ND	5										
Vinyl chloride	75-01-4	ND	1										
Bromomethane	74-83-9	ND	5										
Chloroethane	75-00-3	ND	5										
Terichlorofluoromethane	75-69-4	ND	1										
1,1-Dichloroethene	75-35-4	ND	1										
Methylene chloride	75-09-2	ND	5										
trans-1,2-Dichloroethene	156-60-5	ND	1										
1,1-Dichloroethane	75-34-3	ND	1										
cis-1,2-Dichloroethene	156-59-2	ND	1										
Tetrahydrofuran	109-99-9	ND	90										

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

WATER VERIFICATION SAMPLING RESULTS (LABORATORY)	
FACILITY NAME:	Flint West Industrial Land (100-12990-0012)
	Stevenson Street and Glenwood Avenue
	Flint, Michigan

Sample Identification		Field Blank (03/26/2012)											
Sample Depth (feet BGS)		NA											
Date Collected		3/26/2012											
Collection Method		Grab											
VOLATILE ORGANICS COMPOUNDS (VOCs) - continued													
Date Analyzed		3/31/2012											
Analytical Method Number		8260B											
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Chloroform	67-66-3	ND	1										
Bromochloromethane	74-97-5	ND	1										
1,1,1-Trichlororthane	71-55-6	ND	1										
4-Methyl-2-pentanone (MIBK)	10810-1	ND	50										
2-Hexanone	591-78-6	ND	50										
Carbon tetrachloride	56-23-5	ND	1										
Benzene	71-43-2	ND	1										
1,2-Dichloroethane	107-06-2	ND	1										
Trichloroethene	79-01-6	ND	1										
1,2-Dichloropropane	78-87-5	ND	1										
Bromodichloromethane	75-27-4	ND	1										
Dibromomethane	74-95-3	ND	5										
cis-1,3-Dichloropropane	10061-01-5	ND	1										
Toluene	108-88-3	ND	1										
trans-1,3-Dichloropropane	10061-02-6	ND	1										
1,1,2-Trichloroethane	79-00-5	ND	1										
Tetrachloroethene	127-18-4	ND	1										
trans-1,4-Dichloro-2-butene	110-57-6	ND	1										
Dibromochloromethane	124-48-1	ND	5										
1,2-Dibromoethane	106-93-4	ND	1										
Chlorobenzene	108-90-7	ND	1										
1,1,1,2-Teterchloroethane	630-20-6	ND	1										
Ethylbenzene	100-41-4	ND	1										
p,m-Xylene	No CAS #	ND	2										
o-Xylene	95-47-6	ND	1										
Styrene	100-42-5	ND	1										
Isopropylbenzene	98-82-8	ND	5										
Bromoform	75-25-2	ND	1										
1,1,2,2-Tetrachloroethane	79-34-5	ND	1										

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

WATER VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		Field Blank (03/26/2012)											
Sample Depth (feet BGS)		NA											
Date Collected		3/26/2012											
Collection Method		Grab											
VOLATILE ORGANICS COMPOUNDS (VOCs) - continued													
Date Analyzed		3/31/2012											
Analytical Method Number		8260B											
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
1,2,3-Trichloropropane	96-18-4	ND	1										
n-Propylbenzene	103-65-1	ND	1										
Bromobenzene	108-86-1	ND	1										
1,3,5-Trimethylbenzene	108-67-8	ND	1										
tert-Butylbenzene	98-06-6	ND	1										
1,2,4-Trimethylbenzene	95-63-6	ND	1										
sec-Butylbenzene	135-98-8	ND	1										
p-Isopropyltoluene	99-87-6	ND	5										
1,3-Dichlorobenzene	541-73-1	ND	1										
1,4-Dichlorobenzene	106-46-7	ND	1										
1,2-Dichlorobenzene	95-50-1	ND	1										
1,2,3-Trimethylbenzene	526-73-8	ND	1										
n-Butylbenzene	104-51-8	ND	1										
Hexachloroethane	67-72-1	ND	5										
1,2-Dibromo-3-chloropropane	96-12-8	ND	5										
1,2,4-Trichlorobenzene	120-82-1	ND	5										
1,2,3-Trichlorobenzene	87-61-6	ND	5										
Naphthalene	91-20-3	ND	5										
2-Methylnaphthalene	91-57-6	ND	5										

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

Groundwater Analytical Tables
Sampling Event - April

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

WATER VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification		MW-100S (03/07/2012)		MW-101S (03/08/2012)		MW-102S (03/08/2012)		MW-103S (03/13/2012)		DUP (03/26/2012) (MW-103S)			
Sample Depth (feet BGS)		5'-15'		9'-19'		9'-19'		5'-15'		5'-15'			
Date Collected		4/11/2012		4/11/2012		4/11/2012		4/11/2012		4/11/2012			
Collection Method		Grab		Grab		Grab		Grab		Grab			
INORGANICS													
Date Analyzed		4/20/2012		4/20/2012		4/20/2012		4/20/2012		4/20/2012			
Analytical Method Number		335.4		335.4		335.4		335.4		335.4			
CONSTITUENT (mg/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL		
Cyanide	57-12-5	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005		

Notes:
Results in parts per billion

NA = Not Analyzed
ND = Not Detected

SOIL ANALYTICAL DATA - METALS
RACER - Flint West #12990

			Sample ID	SB-105	SB-105	SB-105	SB-106	SB-106	SB-106	SB-107	SB-107	SB-107	SB-108	SB-108	SB-108	SB-109	SB-109	SB-109
			Date Collected	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/5/12	12/5/12	12/5/12
			Depth Below Grade (ft)	7-8	10-11	23-25	8-9	13-14	24-25	6-7	13-14	17-18	6-7	14-15	20-21	4-5	12-13	18-19
ANALYTE (ug/kg)	DW	GSI	B	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Arsenic	5,800	5,800	5,800	810	1,220	1,340	950	1,000	1,680	1,630	1,060	1,950	1,070	1,510	1,440	1,510	540	1,770
Barium	1.3 E+6	7.8 E+5 G	75,000	22,400	21,700	30,400	37,400	42,000	26,300	38,200	52,700	25,000	9,010	40,200	55,500	60,600	2,750	20,300
Cadmium	6,000	5,400 G	1,200		140	210		150	250		190	170	110		210	210		170
Chromium	1.0 E+9	4.6 E+9 G	18,000	1,510	2,860	4,740	2,110	3,350	3,920	2,250	5,180	3,260	1,640	2,830	4,610	3,670	470	3,250
Chromium VI	30,000	3,300	NA															
Copper	5.8 E+6	1.2 E+5	32,000	3,810	8,030	14,300	2,670	5,530	11,900	3,390	9,060	10,100	1,480	4,720	9,140	6,370	940	10,500
Lead	7.0 E+5	5.0 E+6 G	21,000	8,500	32,900	8,750	5,160	6,600	8,060	5,550	7,500	7,800	3,170	5,090	8,450	6,710	900	7,390
Mercury	1,700	50	130	20	327	20	30	10	20	20	20	10	10	20	20	10	1	20
Selenium	4,000	400	410															
Silver	4,500	100	1,000		170													
Zinc	2.4 E+6	2.6 E+5G	47,000	6,340	44,000	26,200	6,410	15,000	32,600	9,940	21,700	22,400	4,480	11,500	22,300	18,000	2,110	21,500

			Sample ID	SB-110	SB-110	SB-110	SB-111	SB-111	SB-111	SB-112	SB-112	SB-112	SB-113	SB-113	SB-113	DUP 1	DUP 2	DUP 3
			Date Collected	12/5/12	12/5/12	12/5/12	12/5/12	12/5/12	12/5/12	12/6/12	12/6/12	12/6/12	12/6/12	12/6/12	12/6/12	12/4/12	12/4/12	12/5/12
			Depth Below Grade (ft)	12-13	15-16	24-25	11-12	13-14	24.5-25.5	3.5-4.5	8.5-9.5	24-25	4-6	10-11	23-24			
ANALYTE (ug/kg)	DW	GSI	B	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Arsenic	5,800	5,800	5,800	1,650	1,380	1,660	2130	1,330	2,330	1,240	1,090	1,030	520	580	1,820	1,470	830	1,070
Barium	1.3 E+6	7.8 E+5 G	75,000	30,700	42,400	20,400	47,200	27,100	6,230	22,400	8,320	23,600	21,000	5,960	5,777	25,000	7,320	35,100
Cadmium	6,000	5,400 G	1,200	130	180	200	150	220		120		120				180		140
Chromium	1.0 E+9	4.6 E+9 G	18,000	2,340	3,490	4,320	5,160	3,910	1,120	3,640	730	14,500	1,940	550	970	2,650	1,820	3,630
Chromium VI	30,000	3,300	NA															
Copper	5.8 E+6	1.2 E+5	32,000	3,570	7,200	12,600	6,120	11,100	4,880	5,920	1,700	8,460	6,960	730	3,740	8,880	1,400	6,470
Lead	7.0 E+5	5.0 E+6 G	21,000	4,780	7,110	8,380	6,790	7,410	3,520	3,880	1,940	3,850	5,820	1,080	2,310	6,550	2,050	6,220
Mercury	1,700	50	130	10	20	20	20	20	10	40	10	20	10	2	5	20	10	20
Selenium	4,000	400	410															
Silver	4,500	100	1,000															
Zinc	2.4 E+6	2.6 E+5G	47,000	10,300	17,600	25,800	15,900	2,360	11,000	8,150	3,960	10,400	8,910	2,030	9,360	18,600	3,070	12,900

NOTES:

	Exceeds one or more criteria
GSI	Groundwater to Surface Water Interface Criteria - calculated based on 257ppm total hardness in the Flint River
	Blank cells indicate no detectable concentrations
B	MDEQ Default Type A Background
DW	Drinking Water Criteria

SOIL ANALYTICAL DATA - DETECTED VOCs
RACER - Flint West #12990

		Sample ID	SB-105	SB-105	SB-105	SB-106	SB-106	SB-106	SB-107	SB-107	SB-107	SB-108	SB-108	SB-108	SB-109	SB-109	SB-109	SB-110	SB-110
		Date Collected	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/5/12	12/5/12	12/5/12	12/5/12	12/5/12
		Depth (ft)	7-8	10-11	23-25	8-9	13-14	24-25	6-7	13-14	17-18	6-7	14-15	20-21	4-5	12-13	18-19	12-13	15-16
ANALYTE (ug/kg)	DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
VOCs	varies	varies																	

		Sample ID	SB-110	SB-111	SB-111	SB-111	SB-112	SB-112	SB-112	SB-113	SB-113	SB-113	DUP 1	DUP 2	DUP 3	TB	FB	TB	FB	TB	FB
		Date Collected	12/5/12	12/5/12	12/5/12	12/5/12	12/6/12	12/6/12	12/6/12	12/6/12	12/6/12	12/6/12	12/4/12	12/4/12	12/5/12	12/4/12	12/4/12	12/5/12	12/5/12	12/6/12	12/6/12
		Depth (ft)	24-25	11-12	13-14	24.5-25.5	3.5-4.5	8.5-9.5	24-25	4-6	10-11	23-24									
ANALYTE (ug/kg)	DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Acetone	15,000	34,000																		111	
2 Butanone (MEK)	2.6 E+5	44,000																		55	
Chloromethane	5,200	NC																		102	
Vinyl Chloride	40	260					80														
Tetrahydrofuran	1,900	2.2 E+5																		250	
Toluene	16,000	5,400					400														
1,3,5-Trimethylbenzene	1,800	1,100					300														
1,2,3-Trimethylbenzene	NC	NC					200														
Naphthalene	35,000	730					840		470												
2-Methylnaphthalene	57,000	4,200					3,120		1,100	560											
n-Butylbenzene	1,600	NC					250														

NOTES:

	Exceeds one or more criteria
	Blank cells indicate no detectable concentrations
NC	No Criteria
111	Compound also found in associated method blank, suggesting a laboratory artifact.
GSI	Groundwater to Surface Water Interface Criteria - calculated based on 257ppm total hardness in the Flint River
DW	Drinking Water criteria

SOIL ANALYTICAL DATA - DETECTED VOCs
RACER - Flint West #12990

	Sample ID		SB-114	SB-114	SB-114	SB-115	SB-115	SB-115	SB-116	SB-116	SB-116	SB-117	SB-117	SB-117	SB-118	SB-118	SB-118
	Date Collected		12/10/12	12/10/12	12/10/12	12/10/12	12/10/12	12/10/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12
	Depth Below Grade (ft)		4-5	7-8	20-21	6-7	13-14	17-18	4-5	7-8	12-13	6-7	9-10	18-19	3.5-4.5	7-8	16-17
ANALYTE (ug/kg)	DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Acetone	15,000	34,000	130	135	152	139	91	121	191	119	161	138	220	119	102	72	
2 Butanone (MEK)	2.6 E+5	44,000	79	123	126	122	89	98	135	86	134	113	113	81	67	59	78
Chloromethane	5,200	NC	144	155	179	174	133	128	176	127	167	145	168	158	127	111	155
Vinyl Chloride	40	260									260						250
1,1-Dichloroethene	140	2,600															110
Methylene Chloride	100	30,000	13	15	16	18	13.3	13	16	10.8	16	14	14	15	11	11.5	12
trans-1,2-Dichloroethene	2,000	30,000									27						200
1,1-Dichloroethane	18,000	15,000									35						80
cis-1,2-Dichloroethene	1,400	12,000			170						2,610			580			11,960
Tetrahydrofuran	1,900	2.2 E+5	350	400	470	440	350	330	460	310	430	390	430	360	330	270	360
Benzene	100	4,000															26
Trichloroethene	100	4,000			1,220						27			5,980			29
Naphthalene	35,000	730	540	60	22									31			
2-Methylnaphthalene	57,000	4,200	234	62	30	24	18							33			

	Sample ID		DUP 4	DUP 5	DUP 6	TB	FB	TB	FB
	Date Collected		12/10/12	12/11/12	12/11/12	12/10/12	12/10/12	12/11/12	12/11/12
	Depth Below Grade (ft)								
ANALYTE (ug/kg)	DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Acetone	15,000	34,000	129	72	80	58		72	66
2 Butanone (MEK)	2.6 E+5	44,000	92	63	60	48	41	42	44
Chloromethane	5,200	NC	110	128	121	99	95	95	103
Methylene Chloride	100	30,000	12	13	12	9.0		9.0	8.5
trans-1,2-Dichloroethene	2,000	30,000							
Tetrahydrofuran	1,900	2.2 E+5	350	290	300	230	230	230	230

NOTES:

	Exceeds one or more criteria
	Blank cells indicate no detectable concentrations
NC	No Criteria
111	Compound also found in associated method blank, suggesting a laboratory artifact.
GSI	Groundwater to Surface Water Interface Criteria - calculated based on 257ppm total hardness in the Flint River
DW	Drinking Water criteria

GROUNDWATER ANALYTICAL DATA
RACER - Flint West #12990

	Sample ID		MW-100S	MW-101S	MW-102S	MW-103S	MW-104S	MW-105S	MW-106S	MW-107S	MW-108S	MW-109S	MW-110S	MW-111S	Dup 1	Dup 2
	Date Collected		12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12
ANALYTE (mg/L)	DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Arsenic	0.01	0.01	DRY		0.0020	0.055			DRY			0.003	0.004	0.013	0.055	0.015
Barium	2	1.2 G	DRY	0.279	0.0840	0.586	0.065	0.054	DRY	0.118	0.101	0.109	0.308	0.077	0.602	0.074
Cadmium	0.005	0.004 G	DRY	0.0018					DRY			0.0008	0.0003	0.0002		
Chromium	0.01	0.16 G	DRY		0.0100				DRY			0.006	0.0040	0.004		0.002
Chromium VI	0.01	0.011	DRY						DRY							
Copper	1	0.02 G	DRY		0.0050			0.002	DRY		0.003	0.028	0.049	0.005		0.003
Lead	0.004	0.028 G	DRY		0.0020				DRY		0.002	0.02	0.016	0.003		0.002
Mercury	0.002	0.0001	DRY	0.0004					DRY			0.000049	0.000037			
Selenium	0.05	0.005	DRY		0.0030		0.003	0.010	DRY							
Silver	0.034	0.0002	DRY						DRY							
Zinc	2.4	0.26 G	DRY	0.021	0.0120	0.002	0.002	0.005	DRY	0.003	0.008	0.047	0.047	0.014	0.002	0.006

	Sample ID		MW-100S	MW-101S	MW-102S	MW-103S	MW-104S	MW-105S	MW-106S	MW-107S	MW-108S	MW-109S	MW-110S	MW-111S	Dup 1	Dup 2
	Date Collected		12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12
ANALYTE (ug/L)	DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
PNAs	varies	varies	DRY	ND	ND	ND	ND	ND	DRY	ND	ND	ND	ND	ND	ND	ND

	Sample ID		MW-100S	MW-101S	MW-102S	MW-103S	MW-104S	MW-105S	MW-106S	MW-107S	MW-108S	MW-109S	MW-110S	MW-111S	Dup 1	Dup 2	Trip Blank	Field Blank
	Date Collected		12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12
ANALYTE (ug/L)	DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Acetone	730	1,700		0.072		3.2			DRY				2.71		1.67			
Carbon disulfide	800	NC							DRY				0.58				0.86	5
2 Butanone (MEK)	13,000	2,200							DRY				0.37		0.66			3.1
Chloromethane	260	NC							DRY									0.46
Vinyl Chloride	2.0	13				0.96			DRY	1		28		195	0.80	188		
Chloroethane	430	1,100							DRY					1.26				
1,1-Dichloroethene	7.0	130							DRY	0.18		5		10		0.97		
Methylene Chloride	5.0	1,500							DRY								0.080	0.090
trans-1,2-Dichloroethene	100	1,500							DRY		0.130	1.95		2		2		
1,1-Dichloroethane	880	740							DRY	0.950		4		5		10		
cis-1,2-Dichloroethene	70	620	0.077			0.170	0.340		DRY	6	2	105		69		71		
Tetrahydrofuran	95	11,000	1.04		0.99	0.97	1.06	0.96	DRY	1.00	1.25	8.2		1.12		1.23	31.37	108
Chloroform	80	350	0.140	1			0.500		DRY		6			0.530		0.550		
1,1,1-Trichloroethane	200	89							DRY					0.470		0.460		
Carbontetrachloride	5.0	45						0.15	DRY		3							
Benzene	5.0	200		0.30		0.210			DRY	0.100				0.17	0.21	0.150		
Trichloroethene	5.0	200	4	5	0.68	0.17	0.85	25	DRY	6		166	0.30	115		116		
Toluene	790	270	0.190	0.67	0.120	0.110			DRY					0.100			0.160	0.120
Tetrachloroethene	5.0	60		0.27					DRY					0.140		0.140		
Chlorobenzene	100	25				0.080			DRY									
Total Xylenes	280	41				0.28			DRY									
1,2,4-Trimethylbenzene	63	17					0.14		DRY									
1,2,3-Trimethylbenzene	NC	NC					0.140		DRY						0.130			
Naphthalene	520	11	0.090						DRY									
2-Methylnaphthalene	260	19			0.110		0.250		DRY		0.07			0.040	0.23			

NOTES:

	Exceeds one or more criteria
G	Groundwater to Surface Water Interface Criteria - calculated based on 257ppm total hardness in the Flint River
	Blank cells indicate no detectable concentrations
1.00	Compound also found in associated method blank, suggesting a laboratory artifact.
NC	Insufficient data to develop criterion/no criterion

GROUNDWATER ANALYTICAL DATA
RACER - Flint West #12990

	Sample ID		MW-100S	MW-101S	MW-102S	MW-103S	MW-104S	MW-105S	MW-106SR	MW-107S	MW-108S	MW-109S	MW-110S	MW-111S	Dup 1	Dup 2
	Date Collected		4/25/13	4/25/13	4/25/13	4/25/13	4/25/13	4/25/13	4/30/13	4/25/13	4/26/13	4/26/13	4/26/13	4/26/13	4/26/13	4/26/13
ANALYTE (mg/L)	DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Arsenic	0.01	0.01				0.041		0.003	0.002	0.003		0.004	0.007	0.002	0.003	0.041
Barium	2	1.2 G	0.049	0.034	0.0600	0.246	0.036	0.134	0.113	0.076	0.049	0.086	0.134	0.025	0.026	0.232
Cadmium	0.005	0.004 G	0.0021													
Chromium	0.1	0.16 G			0.0230		0.014	0.022								
Lead	0.004	0.028 G														
Mercury	0.002	0.0001														
Selenium	0.05	0.005						0.007			0.006					
Silver	0.034	0.0002														

	Sample ID		MW-100S	MW-101S	MW-102S	MW-103S	MW-104S	MW-105S	MW-106SR	MW-107S	MW-108S	MW-109S	MW-110S	MW-111S	Dup 1	Dup 2
	Date Collected		4/25/13	4/25/13	4/25/13	4/25/13	4/25/13	4/25/13	4/30/13	4/25/13	4/26/13	4/26/13	4/26/13	4/26/13	4/26/13	4/26/13
ANALYTE (ug/L)	DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
PNAs	varies	varies														

	Sample ID		MW-100S	MW-101S	MW-102S	MW-103S	MW-104S	MW-105S	MW-106SR	MW-107S	MW-108S	MW-109S	MW-110S	MW-111S	Dup 1	Dup 2	Trip Blank	Field Blank	Trip Blank	Field Blank
	Date Collected		4/25/13	4/25/13	4/25/13	4/25/13	4/25/13	4/25/13	4/30/13	4/25/13	4/26/13	4/26/13	4/26/13	4/26/13	4/26/13	4/26/13	4/25/13	4/25/13	4/26/13	4/26/13
ANALYTE (ug/L)	DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Acetone	730	1,700														4.4				
Carbon disulfide	800	NC																		
2 Butanone (MEK)	13,000	2,200																		
Chloromethane	260	NC																		
Vinyl Chloride	2.0	13				0.66				0.44		17				0.66				
Chloroethane	430	1,100										0.49								
trichlorofluoromethane	2,600	NA		0.37																
1,1-Dichloroethene	7.0	130										4								
Methylene Chloride	5.0	1,500																		
trans-1,2-Dichloroethene	100	1,500										1								
1,1-Dichloroethane	880	740								1		3								
cis-1,2-Dichloroethene	70	620	0.95							1	0.42	70								
Tetrahydrofuran	95	11,000																		
Chloroform	80	350					4		0.051		2	0.260								
1,1,1-Trichloroethane	200	89										0.590								
Carbontetrachloride	5.0	45									2									
Benzene	5.0	200																		
bromodichloromethane	80.0	NC					0.32													
Trichloroethene	5.0	200	5	1	2					9		178								
Toluene	790	270																		
Tetrachloroethene	5.0	60						1				0.17								
Chlorobenzene	100	25																		
Total Xylenes	280	41																		
1,2,4-Trimethylbenzene	63	17																		
1,2,3-Trimethylbenzene	NC	NC																		
Naphthalene	520	11																		
2-Methylnaphthalene	260	19																		

NOTES:

	Exceeds one or more criteria
G	Groundwater to Surface Water Interface Criteria - calculated based on 257ppm total hardness in the Flint River
	Blank cells indicate no detectable concentrations
1.00	Compound also found in associated method blank, suggesting a laboratory artifact.
NC	Insufficient data to develop criterion/no criterion

SOIL ANALYTICAL DATA - DETECTED VOCs
RACER - Flint West #12990

	Sample ID		SB-119	SB-119	SB-120	SB-121	SB-121	SB-122	SB-123	DUP1	FB	TB
	Date Collected		4/30/13	4/30/13	4/30/13	4/30/13	4/30/13	4/30/13	4/30/13	4/30/13	4/30/13	4/30/13
	Depth Below Grade (ft)		10-11	17-18	8-9'	15-16	23-24	15-16	5-6			
ANALYTE (ug/Kg)	DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Acetone	15,000	34,000										
2 Butanone (MEK)	2.6 E+5	44,000										
Chloromethane	5,200	NC										
Vinyl Chloride	40	260					110					
Tetrahydrofuran	1,900	2.2 E+5										
Toluene	16,000	5,400										
1,3,5-Trimethylbenzene	1,800	1,100							29			
1,2,4-Trimethylbenzene	2,100	570	21						37	22		
1,2,3-Trimethylbenzene	NC	NC	12			5.5			42	12		
Naphthalene	35,000	730	64	22					210	55		
2-Methylnaphthalene	57,000	4,200	49	19		25			345	39		
n-Butylbenzene	1,600	NC										
methylene Chloride	100	30,000	13	15	18	14	19	100	18	12	13.5	11.5
1,1 dichloroethene	140	2,600					16					
trans-1,2dichloroethene	2,000	30,000					66					
1,1 dichloroethane	18,000	15,000					57					
cis-1,2dichloroethene	1,400	12,000					2,970	1,600				
benzne	100	4,000					44					
trichloroethene	100	4,000					400	14,400	41			
tetrachloroethylene	100	1,200							18			
o-xylene	5,600*	820*							39			
isopropylbenzene	91,000	3,200							65			
p-isopropyltoluene	NC	NC							93			

NOTES:

	Exceeds one or more criteria
	Blank cells indicate no detectable concentrations
NC	No Criteria
111	Compound also found in associated method blank, suggesting a laboratory artifact.
GSI	Groundwater to Surface Water Interface Criteria - calculated based on 257ppm total hardness in the Flint River
DW	Drinking Water criteria
*	Total Xylenes

ATTACHMENT #5: SOIL AND GROUNDWATER ANALYTICAL DATA

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services

Analytical Laboratory Report

Revised Report

Report ID: S56230.01(02)
Generated on 05/21/2013
Replaces report S56230.01(01) generated on 05/10/2013

Report to

Attention: Mike Smith
Applied Ecosystems
G4300 S. Saginaw St.
Burton, MI 48529

Phone: 810-715-2525 FAX: 810-715-2526
Email: msmith@appliedecosystems.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Tabitha Faust (tfaust@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S56230.01-S56230.17
Project: 12990-11-01/ Former Building 9
Collected Date: 04/25/2013 - 04/26/2013
Submitted Date/Time: 04/29/2013 08:00
Sampled by: Josh Adams
P.O. #: 11-4317-102

MDL's added

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified.Full certification lists are available upon request.

Violetta F. Murshak

Violetta F. Murshak
Laboratory Director

Sample Summary (17 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S56230.01	MW-100S	Groundwater	04/25/2013 14:55
S56230.02	MW-101S	Groundwater	04/25/2013 14:29
S56230.03	MW-102S	Groundwater	04/25/2013 13:41
S56230.04	MW-103S	Groundwater	04/25/2013 14:25
S56230.05	MW-104S	Groundwater	04/25/2013 12:10
S56230.06	MW-105S	Groundwater	04/25/2013 12:54
S56230.07	MW-107S	Groundwater	04/25/2013 16:03
S56230.08	MW-108S	Groundwater	04/26/2013 11:40
S56230.09	MW-109S	Groundwater	04/26/2013 12:25
S56230.10	MW-110S	Groundwater	04/26/2013 13:20
S56230.11	MW-111S	Groundwater	04/26/2013 14:10
S56230.12	DUP-1	Groundwater	04/26/2013 00:01
S56230.13	DUP-2	Groundwater	04/26/2013 00:01
S56230.14	Trip Blank (4/25)	Groundwater	04/25/2013 00:01
S56230.15	Field Blank (4/25)	Groundwater	04/25/2013 00:01
S56230.16	Trip Blank (4/26)	Groundwater	04/26/2013 00:01
S56230.17	Field Blank (4/26)	Groundwater	04/26/2013 00:01

Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.01
Sample Tag: MW-100S
Collected Date/Time: 04/25/2013 14:55
Matrix: Groundwater
COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		
Metals								
Arsenic	Not detected	mg/L	0.002	E200.8	05/10/13 14:17	PER	0.000052	
Barium	0.049	mg/L	0.005	E200.8	05/10/13 14:17	PER	0.00022	
Cadmium	0.0021	mg/L	0.0005	E200.8	05/10/13 14:17	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 14:17	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 14:17	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 15:06	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 14:17	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 14:17	PER	0.000018	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 14:31	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 14:31	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 14:31	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 14:31	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 14:31	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 14:31	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 14:31	PL	0.30	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 14:31	PL	0.28	
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 14:31	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 14:31	PL	0.32	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 14:31	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 14:31	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 14:31	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 14:31	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 14:31	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 14:31	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 14:31	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 14:31	PL	0.31	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 15:26	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 15:26	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.24	

Lab Sample ID: S56230.01 (continued)
Sample Tag: MW-100S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 15:26	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 15:26	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.15	
cis-1,2-Dichloroethene	0.95	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.21	J
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 15:26	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 15:26	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 15:26	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.17	
Trichloroethene	5	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 15:26	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.15	

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S56230.01 (continued)
Sample Tag: MW-100S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.21	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.02
Sample Tag: MW-101S
Collected Date/Time: 04/25/2013 14:29
Matrix: Groundwater
COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		
PNA Extraction (Replicate 01)	Completed			3510C	05/02/13 20:59	EMR		
Metals								
Arsenic	Not detected	mg/L	0.002	E200.8	05/10/13 14:18	PER	0.000052	
Barium	0.034	mg/L	0.005	E200.8	05/10/13 14:18	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 14:18	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 14:18	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 14:18	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 14:48	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 14:18	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 14:18	PER	0.000018	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 14:53	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 14:53	PL	0.28	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 14:53	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 14:53	PL	0.28	S
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 14:53	PL	0.27	S
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 14:53	PL	0.30	S
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 14:53	PL	0.29	S
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 14:53	PL	0.27	S
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 14:53	PL	0.30	S
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 14:53	PL	0.31	S
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 14:53	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 14:53	PL	0.30	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 14:53	PL	0.27	S
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 14:53	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 14:53	PL	0.29	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 14:53	PL	0.29	S
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 14:53	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 14:53	PL	0.30	
Polynuclear Aromatic Hydrocarbon (Replicate 01)								
Acenaphthene	Not detected	ug/L	5	SW8270C	05/03/13 20:19	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/03/13 20:19	PL	0.28	

S-Surrogate recovery outside of control limits

Lab Sample ID: S56230.02 (continued)
Sample Tag: MW-101S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Semi-Volatiles (continued)								
Polynuclear Aromatic Hydrocarbon (Replicate 01) (continued)								
Anthracene	Not detected	ug/L	5	SW8270C	05/03/13 20:19	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/03/13 20:19	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/03/13 20:19	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/03/13 20:19	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/03/13 20:19	PL	0.29	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/03/13 20:19	PL	0.27	
Chrysene	Not detected	ug/L	1	SW8270C	05/03/13 20:19	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/03/13 20:19	PL	0.31	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/03/13 20:19	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/03/13 20:19	PL	0.30	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/03/13 20:19	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/03/13 20:19	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/03/13 20:19	PL	0.29	
Pyrene	Not detected	ug/L	5	SW8270C	05/03/13 20:19	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/03/13 20:19	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/03/13 20:19	PL	0.30	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 15:46	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 15:46	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.24	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 15:46	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 15:46	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.21	
Trichlorofluoromethane	0.37	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.28	J
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 15:46	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 15:46	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 15:46	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.17	
Trichloroethene	1	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.18	

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S56230.02 (continued)
Sample Tag: MW-101S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 15:46	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.21	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.03
Sample Tag: MW-102S
Collected Date/Time: 04/25/2013 13:41
Matrix: Groundwater
COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		
Metals								
Arsenic	Not detected	mg/L	0.002	E200.8	05/10/13 14:20	PER	0.000052	
Barium	0.060	mg/L	0.005	E200.8	05/10/13 14:20	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 14:20	PER	0.000067	
Chromium	0.023	mg/L	0.005	E200.8	05/10/13 14:20	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 14:20	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 14:50	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 14:20	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 14:20	PER	0.000018	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 15:16	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 15:16	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 15:16	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 15:16	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 15:16	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 15:16	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 15:16	PL	0.30	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 15:16	PL	0.28	
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 15:16	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 15:16	PL	0.32	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 15:16	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 15:16	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 15:16	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 15:16	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 15:16	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 15:16	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 15:16	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 15:16	PL	0.31	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 16:07	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 16:07	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.24	

Lab Sample ID: S56230.03 (continued)
Sample Tag: MW-102S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 16:07	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 16:07	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 16:07	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 16:07	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 16:07	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.17	
Trichloroethene	2	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 16:07	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.18	

Lab Sample ID: S56230.03 (continued)
Sample Tag: MW-102S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.21	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.04
Sample Tag: MW-103S
Collected Date/Time: 04/25/2013 14:25
Matrix: Groundwater
COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		
Metals								
Arsenic	0.041	mg/L	0.002	E200.8	05/10/13 14:22	PER	0.000052	
Barium	0.246	mg/L	0.005	E200.8	05/10/13 14:22	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 14:22	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 14:22	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 14:22	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 14:52	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 14:22	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 14:22	PER	0.000018	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 15:38	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 15:38	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 15:38	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 15:38	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 15:38	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 15:38	PL	0.31	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 15:38	PL	0.30	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 15:38	PL	0.28	
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 15:38	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 15:38	PL	0.32	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 15:38	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 15:38	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 15:38	PL	0.28	
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 15:38	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 15:38	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 15:38	PL	0.30	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 15:38	PL	0.29	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 15:38	PL	0.31	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 16:27	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 16:27	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.24	

Lab Sample ID: S56230.04 (continued)
Sample Tag: MW-103S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 16:27	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 16:27	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.20	
Vinyl chloride	0.66	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.24	J
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 16:27	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 16:27	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 16:27	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 16:27	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.15	

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S56230.04 (continued)
Sample Tag: MW-103S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.21	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.05
Sample Tag: MW-104S
Collected Date/Time: 04/25/2013 12:10
Matrix: Groundwater
COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		
Metals								
Arsenic	Not detected	mg/L	0.002	E200.8	05/10/13 14:26	PER	0.000052	
Barium	0.036	mg/L	0.005	E200.8	05/10/13 14:26	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 14:26	PER	0.000067	
Chromium	0.014	mg/L	0.005	E200.8	05/10/13 14:26	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 14:26	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 14:54	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 14:26	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 14:26	PER	0.000018	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 16:01	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 16:01	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 16:01	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 16:01	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 16:01	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 16:01	PL	0.31	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 16:01	PL	0.30	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 16:01	PL	0.28	
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 16:01	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 16:01	PL	0.32	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 16:01	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 16:01	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 16:01	PL	0.28	
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 16:01	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 16:01	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 16:01	PL	0.30	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 16:01	PL	0.29	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 16:01	PL	0.31	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 16:47	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 16:47	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.24	

Lab Sample ID: S56230.05 (continued)
Sample Tag: MW-104S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 16:47	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 16:47	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 16:47	JGH	1.2	
Chloroform	4	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 16:47	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 16:47	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.18	
Bromodichloromethane	0.32	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.19	J
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 16:47	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.15	

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S56230.05 (continued)
Sample Tag: MW-104S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.21	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.06
Sample Tag: MW-105S
Collected Date/Time: 04/25/2013 12:54
Matrix: Groundwater
COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		
Metals								
Arsenic	0.003	mg/L	0.002	E200.8	05/10/13 15:51	PER	0.000052	
Barium	0.134	mg/L	0.005	E200.8	05/10/13 15:51	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 15:51	PER	0.000067	
Chromium	0.022	mg/L	0.005	E200.8	05/10/13 15:51	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 15:51	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 14:56	CCM	0.000030	
Selenium	0.007	mg/L	0.005	E200.8	05/10/13 15:51	PER	0.00027	
Silver	0.0006	mg/L	0.0005	E200.8	05/10/13 15:51	PER	0.000018	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 16:23	PL	0.33	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 16:23	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 16:23	PL	0.31	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 16:23	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 16:23	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 16:23	PL	0.31	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 16:23	PL	0.30	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 16:23	PL	0.28	
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 16:23	PL	0.31	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 16:23	PL	0.32	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 16:23	PL	0.33	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 16:23	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 16:23	PL	0.28	
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 16:23	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 16:23	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 16:23	PL	0.30	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 16:23	PL	0.29	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 16:23	PL	0.31	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 17:08	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 17:08	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.24	

Lab Sample ID: S56230.06 (continued)
Sample Tag: MW-105S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 17:08	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 17:08	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 17:08	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 17:08	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 17:08	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.34	
Tetrachloroethene	1	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 17:08	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.18	

Lab Sample ID: S56230.06 (continued)
Sample Tag: MW-105S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.21	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.07
Sample Tag: MW-107S
Collected Date/Time: 04/25/2013 16:03
Matrix: Groundwater
COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		
Metals								
Arsenic	0.003	mg/L	0.002	E200.8	05/10/13 15:53	PER	0.000052	
Barium	0.076	mg/L	0.005	E200.8	05/10/13 15:53	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 15:53	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 15:53	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 15:53	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 14:58	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 15:53	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 15:53	PER	0.000018	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 16:46	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 16:46	PL	0.28	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 16:46	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 16:46	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 16:46	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 16:46	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 16:46	PL	0.29	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 16:46	PL	0.27	
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 16:46	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 16:46	PL	0.31	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 16:46	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 16:46	PL	0.30	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 16:46	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 16:46	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 16:46	PL	0.29	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 16:46	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 16:46	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 16:46	PL	0.30	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 17:28	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 17:28	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.24	

Lab Sample ID: S56230.07 (continued)
Sample Tag: MW-107S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 17:28	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 17:28	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.20	
Vinyl chloride	0.44	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.24	J
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.14	
1,1-Dichloroethane	1	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.15	
cis-1,2-Dichloroethene	1	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 17:28	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 17:28	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 17:28	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.17	
Trichloroethene	9	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 17:28	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.15	

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S56230.07 (continued)
Sample Tag: MW-107S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.21	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.08
Sample Tag: MW-108S
Collected Date/Time: 04/26/2013 11:40
Matrix: Groundwater
COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		
Metals								
Arsenic	Not detected	mg/L	0.002	E200.8	05/10/13 14:27	PER	0.000052	
Barium	0.049	mg/L	0.005	E200.8	05/10/13 14:27	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 14:27	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 14:27	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 14:27	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 15:00	CCM	0.000030	
Selenium	0.006	mg/L	0.005	E200.8	05/10/13 14:27	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 14:27	PER	0.000018	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 17:08	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 17:08	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 17:08	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 17:08	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 17:08	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 17:08	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 17:08	PL	0.30	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 17:08	PL	0.28	
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 17:08	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 17:08	PL	0.32	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 17:08	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 17:08	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 17:08	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 17:08	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 17:08	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 17:08	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 17:08	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 17:08	PL	0.31	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 17:48	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 17:48	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.24	

Lab Sample ID: S56230.08 (continued)
Sample Tag: MW-108S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 17:48	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 17:48	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.15	
cis-1,2-Dichloroethene	0.42	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.21	J
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 17:48	JGH	1.2	
Chloroform	2	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 17:48	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 17:48	JGH	0.19	
Carbon tetrachloride	2	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 17:48	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.15	

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S56230.08 (continued)
Sample Tag: MW-108S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.21	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.09
Sample Tag: MW-109S
Collected Date/Time: 04/26/2013 12:25
Matrix: Groundwater
COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		
Metals								
Arsenic	0.004	mg/L	0.002	E200.8	05/10/13 15:54	PER	0.000052	
Barium	0.086	mg/L	0.005	E200.8	05/10/13 15:54	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 15:54	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 15:54	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 15:54	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 15:02	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 15:54	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 15:54	PER	0.000018	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 17:31	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 17:31	PL	0.28	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 17:31	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 17:31	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 17:31	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 17:31	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 17:31	PL	0.29	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 17:31	PL	0.27	
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 17:31	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 17:31	PL	0.31	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 17:31	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 17:31	PL	0.30	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 17:31	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 17:31	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 17:31	PL	0.29	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 17:31	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 17:31	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 17:31	PL	0.30	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 22:31	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 22:31	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.24	

Lab Sample ID: S56230.09 (continued)
Sample Tag: MW-109S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 22:31	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 22:31	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.20	
Vinyl chloride	17	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.18	
Chloroethane	0.49	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.21	J
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.28	
1,1-Dichloroethene	4	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.16	
trans-1,2-Dichloroethene	1	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.14	
1,1-Dichloroethane	3	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.15	
cis-1,2-Dichloroethene	70	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 22:31	JGH	1.2	
Chloroform	0.26	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.15	J
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.36	
1,1,1-Trichloroethane	0.59	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.27	J
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 22:31	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 22:31	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.17	
Trichloroethene	178	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.34	
Tetrachloroethene	0.17	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.13	J
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 22:31	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.15	

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S56230.09 (continued)
Sample Tag: MW-109S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.21	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.10
Sample Tag: MW-110S
Collected Date/Time: 04/26/2013 13:20
Matrix: Groundwater
COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		
Metals								
Arsenic	0.007	mg/L	0.002	E200.8	05/10/13 15:56	PER	0.000052	
Barium	0.134	mg/L	0.005	E200.8	05/10/13 15:56	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 15:56	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 15:56	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 15:56	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 15:22	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 15:56	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 15:56	PER	0.000018	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 17:53	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 17:53	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 17:53	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 17:53	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 17:53	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 17:53	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 17:53	PL	0.30	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 17:53	PL	0.28	
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 17:53	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 17:53	PL	0.32	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 17:53	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 17:53	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 17:53	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 17:53	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 17:53	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 17:53	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 17:53	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 17:53	PL	0.31	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 18:09	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 18:09	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.24	

Lab Sample ID: S56230.10 (continued)
Sample Tag: MW-110S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 18:09	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 18:09	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 18:09	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 18:09	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 18:09	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 18:09	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.18	

Lab Sample ID: S56230.10 (continued)
Sample Tag: MW-110S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.21	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.11
Sample Tag: MW-111S
Collected Date/Time: 04/26/2013 14:10
Matrix: Groundwater
COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		
PNA Extraction (Replicate 01)	Completed			3510C	05/02/13 20:59	EMR		
Metals								
Arsenic	0.002	mg/L	0.002	E200.8	05/10/13 15:58	PER	0.000052	
Barium	0.025	mg/L	0.005	E200.8	05/10/13 15:58	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 15:58	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 15:58	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 15:58	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 15:04	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 15:58	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 15:58	PER	0.000018	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 18:16	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 18:16	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 18:16	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 18:16	PL	0.28	S
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 18:16	PL	0.27	S
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 18:16	PL	0.30	S
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 18:16	PL	0.30	S
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 18:16	PL	0.28	S
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 18:16	PL	0.30	S
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 18:16	PL	0.32	S
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 18:16	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 18:16	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 18:16	PL	0.27	S
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 18:16	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 18:16	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 18:16	PL	0.29	S
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 18:16	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 18:16	PL	0.31	
Polynuclear Aromatic Hydrocarbon (Replicate 01)								
Acenaphthene	Not detected	ug/L	5	SW8270C	05/03/13 20:41	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/03/13 20:41	PL	0.28	

S-Surrogate recovery outside of control limits

Lab Sample ID: S56230.11 (continued)
Sample Tag: MW-111S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Semi-Volatiles (continued)								
Polynuclear Aromatic Hydrocarbon (Replicate 01) (continued)								
Anthracene	Not detected	ug/L	5	SW8270C	05/03/13 20:41	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/03/13 20:41	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/03/13 20:41	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/03/13 20:41	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/03/13 20:41	PL	0.29	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/03/13 20:41	PL	0.27	
Chrysene	Not detected	ug/L	1	SW8270C	05/03/13 20:41	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/03/13 20:41	PL	0.31	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/03/13 20:41	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/03/13 20:41	PL	0.30	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/03/13 20:41	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/03/13 20:41	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/03/13 20:41	PL	0.29	
Pyrene	Not detected	ug/L	5	SW8270C	05/03/13 20:41	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/03/13 20:41	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/03/13 20:41	PL	0.30	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 18:29	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 18:29	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.24	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 18:29	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 18:29	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 18:29	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 18:29	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 18:29	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.19	

Lab Sample ID: S56230.11 (continued)
Sample Tag: MW-111S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 18:29	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.21	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.12
Sample Tag: DUP-1
Collected Date/Time: 04/26/2013 00:01
Matrix: Groundwater
COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		
Metals								
Arsenic	0.003	mg/L	0.002	E200.8	05/10/13 16:00	PER	0.000052	
Barium	0.026	mg/L	0.005	E200.8	05/10/13 16:00	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 16:00	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 16:00	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 16:00	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 15:16	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 16:00	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 16:00	PER	0.000018	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 18:38	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 18:38	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 18:38	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 18:38	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 18:38	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 18:38	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 18:38	PL	0.30	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 18:38	PL	0.28	
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 18:38	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 18:38	PL	0.32	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 18:38	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 18:38	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 18:38	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 18:38	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 18:38	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 18:38	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 18:38	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 18:38	PL	0.31	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 20:50	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 20:50	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.24	

Lab Sample ID: S56230.12 (continued)
Sample Tag: DUP-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 20:50	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 20:50	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 20:50	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 20:50	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 20:50	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 20:50	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.18	

Lab Sample ID: S56230.12 (continued)
Sample Tag: DUP-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.21	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.13
Sample Tag: DUP-2
Collected Date/Time: 04/26/2013 00:01
Matrix: Groundwater
COC Reference: 81594

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		
Metals								
Arsenic	0.041	mg/L	0.002	E200.8	05/10/13 16:01	PER	0.000052	
Barium	0.232	mg/L	0.005	E200.8	05/10/13 16:01	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 16:01	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 16:01	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 16:01	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 15:18	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 16:01	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 16:01	PER	0.000018	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 19:01	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 19:01	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 19:01	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 19:01	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 19:01	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 19:01	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 19:01	PL	0.30	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 19:01	PL	0.28	
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 19:01	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 19:01	PL	0.32	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 19:01	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 19:01	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 19:01	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 19:01	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 19:01	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 19:01	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 19:01	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 19:01	PL	0.31	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 21:10	JGH	0.27	
Acetone	4.4	ug/L	50	SW8260B	05/06/13 21:10	JGH	4.0	J

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S56230.13 (continued)
Sample Tag: DUP-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.24	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 21:10	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 21:10	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.20	
Vinyl chloride	0.66	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.24	J
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 21:10	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 21:10	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 21:10	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 21:10	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.12	

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S56230.13 (continued)
Sample Tag: DUP-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.21	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.14
Sample Tag: Trip Blank (4/25)
Collected Date/Time: 04/25/2013 00:01
Matrix: Groundwater
COC Reference: 81594

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 18:49	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 18:49	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.24	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 18:49	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 18:49	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 18:49	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 18:49	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 18:49	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.12	

Lab Sample ID: S56230.14 (continued)
Sample Tag: Trip Blank (4/25)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 18:49	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.21	

Lab Sample ID: S56230.15
Sample Tag: Field Blank (4/25)
Collected Date/Time: 04/25/2013 00:01
Matrix: Groundwater
COC Reference: 81594

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 19:10	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 19:10	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.24	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 19:10	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 19:10	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 19:10	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 19:10	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 19:10	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.12	

Lab Sample ID: S56230.15 (continued)
Sample Tag: Field Blank (4/25)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 19:10	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.21	

Lab Sample ID: S56230.16
Sample Tag: Trip Blank (4/26)
Collected Date/Time: 04/26/2013 00:01
Matrix: Groundwater
COC Reference: 81594

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 19:30	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 19:30	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.24	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 19:30	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 19:30	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 19:30	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 19:30	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 19:30	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.12	

Lab Sample ID: S56230.16 (continued)
Sample Tag: Trip Blank (4/26)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 19:30	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.21	

Lab Sample ID: S56230.17
Sample Tag: Field Blank (4/26)
Collected Date/Time: 04/26/2013 00:01
Matrix: Groundwater
COC Reference: 81594

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:30	WAT		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 19:50	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 19:50	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.24	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 19:50	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 19:50	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 19:50	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 19:50	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 19:50	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.12	

Lab Sample ID: S56230.17 (continued)
Sample Tag: Field Blank (4/26)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 19:50	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.21	

Merit Laboratories, Inc.

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Phone (517) 332-0167 Fax (517) 332-4034
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C.O.C. PAGE # 1 OF 2

81592

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Mike Smith
COMPANY: Applied EcoSystems, Inc.
ADDRESS: 6-4300 S. Saginaw
CITY: Burton STATE: MI ZIP CODE: 48529
PHONE NO.: 810.715.2525 FAX NO.: 810.715.2526 P.O. NO.: 11-4317-102
E-MAIL ADDRESS: mds_ae@yahoo.com QUOTE NO.:

INVOICE TO

CONTACT NAME: RACER ☐ SAME
COMPANY: ↳ 12990-11-01
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 12990-11-01 / Former Building 9
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Josh Adams / Josh Adams

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☒ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☐ Other

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs	PNAs	8 RCRA Metals	Special Instructions
56230.01	4/25/13	14:55	MW-100S	GW	6	2	3	1					X	X	X	Task 6
.02	4/25/13	14:29	MW-101S													
.03	4/25/13	13:41	MW-102S													
.04	4/26/13	14:25	MW-103S													
.05	4/25/13	12:10	MW-104S													
.06	4/25/13	12:54	MW-105S													
.07	4/25/13	16:03	MW-107S													
.08	4/26/13	11:40	MW-108S													
.09	4/26/13	12:25	MW-109S													
.10	4/26/13	13:20	MW-110S													
.11	4/26/13	14:10	MW-111S													
.12	4/26/13	—	DUP-1													

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Josh Adams ☒ Sampler DATE: 4/26/13 TIME: 17:48
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Dropbox DATE: TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: Tabitha Faust DATE: 4/29/13 TIME: 800

RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 2.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

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Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 2 OF 2

81594

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Mike Smith
COMPANY: Applied EcoSystems, Inc.
ADDRESS: 5-4300 S. Saginaw
CITY: Burton STATE: MI ZIP CODE: 48529
PHONE NO.: 810.715.2525 FAX NO.: 810.715.2526 P.O. NO.: 11-4317-102
E-MAIL ADDRESS: ae_mds@yahoo.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY: RACER
ADDRESS: → 12990-11-01
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 12990-11-01 / Former Building 9
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Josh Adams / [signature]

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☒ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☐ Other

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG. IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs	PNAs	8 RCRA Metals	Special Instructions
56230.13	4/26/13	—	DUP-2	GW	6	2	3	1					X	X	X	Task 6
.14	4/25/13	—	Trip Blank (4/25)		3		3									
.15	4/25/13	—	Field Blank (4/25)				3									
.16	4/26/13	—	Trip Blank (4/26)				3									
.17	4/26/13	—	Field Blank (4/26)				3									

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] ☒ Sampler	DATE: 4/26/13	TIME: 17:40	RELINQUISHED BY: SIGNATURE/ORGANIZATION: Dropbox
RECEIVED BY: SIGNATURE/ORGANIZATION:	DATE	TIME	RECEIVED BY: SIGNATURE/ORGANIZATION: Tatiana Faust
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	DATE: 4/29/13 TIME: 800
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 2.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S56254.01(01)
Generated on 05/10/2013

Report to

Attention: Mike Smith
Applied Ecosystems
G4300 S. Saginaw St.
Burton, MI 48529

Phone: 810-715-2525 FAX: 810-715-2526
Email: msmith@appliedecosystems.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Tabitha Faust (tfaust@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S56254.01-S56254.10
Project: 12990-11-01/ Former Building 9-Delphi
Collected Date: 04/30/2013
Submitted Date/Time: 05/01/2013 08:41
Sampled by: Josh Adams
P.O. #: 11-4317-102

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified.Full certification lists are available upon request.

Violetta F. Murshak

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (10 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S56254.01	SB-119 (04/30/2013) (10-11)	Soil	04/30/2013 13:47
S56254.02	SB-119 (04/30/2013) (17-18)	Soil	04/30/2013 14:03
S56254.03	SB-120 (04/30/2013) (8-9)	Soil	04/30/2013 14:51
S56254.04	SB-121 (04/30/2013) (15-16)	Soil	04/30/2013 15:18
S56254.05	SB-121 (04/30/2013) (23-24)	Soil	04/30/2013 15:26
S56254.06	SB-122 (04/30/2013) (15-16)	Soil	04/30/2013 16:04
S56254.07	SB-123 (04/30/2013) (5-6)	Soil	04/30/2013 16:33
S56254.08	DUP-1 (04/30/2013)	Soil	04/30/2013 00:01
S56254.09	Field Blank (04/30/2013)	Methanol	04/30/2013 00:01
S56254.10	Trip Blank (04/30/2013)	Methanol	04/30/2013 00:01

Analytical Laboratory Report

Lab Sample ID: S56254.01
Sample Tag: SB-119 (04/30/2013) (10-11)
Collected Date/Time: 04/30/2013 13:47
Matrix: Soil
COC Reference: 82695

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Inorganics								
Total Solids	86	%	1	Std M 2540 B	05/02/13 11:00	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:17	WAT	16	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 14:17	WAT	67	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	18	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:17	WAT	7.8	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:17	WAT	13	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	18	
2-Butanone (MEK)	Not detected	ug/kg	1,100	SW8260B/5035	05/08/13 14:17	WAT	18	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:17	WAT	27	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:17	WAT	40	
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	17	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:17	WAT	11	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:17	WAT	8.5	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	11	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	13	
Methylene chloride	13	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	11	BJ
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	12	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	9.9	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	14	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 14:17	WAT	230	
Chloroform	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	12	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	15	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	7.1	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	05/08/13 14:17	WAT	28	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	05/08/13 14:17	WAT	16	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	8.5	
Benzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	13	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	13	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	11	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	13	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	11	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:17	WAT	15	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	6.4	
Toluene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	11	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	7.8	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	23	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	12	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	21	

B-Compound also found in associated method blank J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S56254.01 (continued)
Sample Tag: SB-119 (04/30/2013) (10-11)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	9.2	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	05/08/13 14:17	WAT	14	M
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	13	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	7.8	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	16	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	31	
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	15	
Styrene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	12	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:17	WAT	15	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	9.2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	21	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	19	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	16	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	18	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	18	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	15	
1,2,4-Trimethylbenzene	21	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	16	J
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	18	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	19	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	14	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	13	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	18	
1,2,3-Trimethylbenzene	12.1	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	2.8	BJ
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	17	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:17	WAT	11	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:17	WAT	13	
1,2,4-Trichlorobenzene	Not detected	ug/kg	470	SW8260B/5035	05/08/13 14:17	WAT	16	
1,2,3-Trichlorobenzene	Not detected	ug/kg	470	SW8260B/5035	05/08/13 14:17	WAT	20	
Naphthalene	64	ug/kg	470	SW8260B/5035	05/08/13 14:17	WAT	18	J
2-Methylnaphthalene	49	ug/kg	470	SW8260B/5035	05/08/13 14:17	WAT	20	J

M-Result reported to MDL not RDL
J-Estimated value less than reporting limit, but greater than MDL
B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S56254.02
Sample Tag: SB-119 (04/30/2013) (17-18)
Collected Date/Time: 04/30/2013 14:03
Matrix: Soil
COC Reference: 82695

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Inorganics								
Total Solids	87	%	1	Std M 2540 B	05/02/13 11:00	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:36	WAT	16	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 14:36	WAT	64	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	17	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:36	WAT	7.4	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:36	WAT	13	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	17	
2-Butanone (MEK)	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 14:36	WAT	17	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:36	WAT	26	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:36	WAT	39	
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	16	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:36	WAT	11	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:36	WAT	8.1	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	11	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	12	
Methylene chloride	15	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	11	BJ
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	12	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	9.5	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	14	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 14:36	WAT	220	
Chloroform	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	12	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	14	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	6.8	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	05/08/13 14:36	WAT	26	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	05/08/13 14:36	WAT	15	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	8.1	
Benzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	13	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	12	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	11	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	13	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	10	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:36	WAT	14	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	6.1	
Toluene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	11	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	7.4	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	22	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	12	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	20	

B-Compound also found in associated method blank J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S56254.02 (continued)
Sample Tag: SB-119 (04/30/2013) (17-18)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	8.8	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	05/08/13 14:36	WAT	14	M
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	12	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	7.4	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	16	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	30	
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	14	
Styrene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	12	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:36	WAT	14	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	8.8	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	20	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	18	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	16	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	17	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	18	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	14	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	15	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	17	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	18	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	14	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	13	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	18	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	2.7	
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	16	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:36	WAT	10	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:36	WAT	13	
1,2,4-Trichlorobenzene	Not detected	ug/kg	450	SW8260B/5035	05/08/13 14:36	WAT	16	
1,2,3-Trichlorobenzene	Not detected	ug/kg	450	SW8260B/5035	05/08/13 14:36	WAT	19	
Naphthalene	22	ug/kg	450	SW8260B/5035	05/08/13 14:36	WAT	17	J
2-Methylnaphthalene	19	ug/kg	450	SW8260B/5035	05/08/13 14:36	WAT	19	J

M-Result reported to MDL not RDL
J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S56254.03
Sample Tag: SB-120 (04/30/2013) (8-9)
Collected Date/Time: 04/30/2013 14:51
Matrix: Soil
COC Reference: 82695

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Inorganics								
Total Solids	79	%	1	Std M 2540 B	05/02/13 11:00	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:54	WAT	18	
Acetone	Not detected	ug/kg	2,000	SW8260B/5035	05/08/13 14:54	WAT	74	
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	20	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:54	WAT	8.7	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:54	WAT	15	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	20	
2-Butanone (MEK)	Not detected	ug/kg	1,200	SW8260B/5035	05/08/13 14:54	WAT	20	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:54	WAT	30	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:54	WAT	45	
Vinyl chloride	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	19	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:54	WAT	13	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:54	WAT	9.5	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	13	
1,1-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	14	
Methylene chloride	18	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	13	BJ
trans-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	13	
1,1-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	11	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	16	
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260B/5035	05/08/13 14:54	WAT	260	
Chloroform	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	13	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	17	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	7.9	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	05/08/13 14:54	WAT	31	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	05/08/13 14:54	WAT	17	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	9.5	
Benzene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	15	
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	14	
Trichloroethene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	13	
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	15	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	12	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:54	WAT	17	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	7.1	
Toluene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	13	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	8.7	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	25	
Tetrachloroethene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	13	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	23	

B-Compound also found in associated method blank J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S56254.03 (continued)
Sample Tag: SB-120 (04/30/2013) (8-9)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	10	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	05/08/13 14:54	WAT	16	M
Chlorobenzene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	14	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	8.7	
Ethylbenzene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	18	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	35	
o-Xylene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	17	
Styrene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	13	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:54	WAT	17	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	10	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	23	
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	21	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	18	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	20	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	21	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	17	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	17	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	20	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	21	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	16	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	15	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	21	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	3.2	
n-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	19	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	05/08/13 14:54	WAT	12	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:54	WAT	15	
1,2,4-Trichlorobenzene	Not detected	ug/kg	520	SW8260B/5035	05/08/13 14:54	WAT	18	
1,2,3-Trichlorobenzene	Not detected	ug/kg	520	SW8260B/5035	05/08/13 14:54	WAT	22	
Naphthalene	Not detected	ug/kg	520	SW8260B/5035	05/08/13 14:54	WAT	20	
2-Methylnaphthalene	Not detected	ug/kg	520	SW8260B/5035	05/08/13 14:54	WAT	22	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S56254.04
Sample Tag: SB-121 (04/30/2013) (15-16)
Collected Date/Time: 04/30/2013 15:18
Matrix: Soil
COC Reference: 82695

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Inorganics								
Total Solids	86	%	1	Std M 2540 B	05/02/13 11:00	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:13	WAT	16	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 15:13	WAT	65	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	17	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:13	WAT	7.6	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:13	WAT	13	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	17	
2-Butanone (MEK)	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 15:13	WAT	17	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:13	WAT	26	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:13	WAT	39	
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	17	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:13	WAT	11	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:13	WAT	8.3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	11	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	12	
Methylene chloride	14	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	11	BJ
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	12	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	9.7	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	14	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 15:13	WAT	230	
Chloroform	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	12	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	14	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	6.9	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	05/08/13 15:13	WAT	27	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	05/08/13 15:13	WAT	15	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	8.3	
Benzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	13	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	12	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	11	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	13	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	10	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:13	WAT	14	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	6.2	
Toluene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	11	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	7.6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	22	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	12	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	20	

B-Compound also found in associated method blank J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S56254.04 (continued)
Sample Tag: SB-121 (04/30/2013) (15-16)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	9.0	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	05/08/13 15:13	WAT	14	M
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	12	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	7.6	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	16	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	30	
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	14	
Styrene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	12	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:13	WAT	14	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	9.0	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	20	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	19	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	16	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	17	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	18	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	14	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	15	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	17	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	19	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	14	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	13	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	18	
1,2,3-Trimethylbenzene	5.5	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	2.8	BJ
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	17	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 15:13	WAT	10	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:13	WAT	13	
1,2,4-Trichlorobenzene	Not detected	ug/kg	460	SW8260B/5035	05/08/13 15:13	WAT	16	
1,2,3-Trichlorobenzene	Not detected	ug/kg	460	SW8260B/5035	05/08/13 15:13	WAT	19	
Naphthalene	Not detected	ug/kg	460	SW8260B/5035	05/08/13 15:13	WAT	17	
2-Methylnaphthalene	25	ug/kg	460	SW8260B/5035	05/08/13 15:13	WAT	19	J

M-Result reported to MDL not RDL
B-Compound also found in associated method blank J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S56254.05
Sample Tag: SB-121 (04/30/2013) (23-24)
Collected Date/Time: 04/30/2013 15:26
Matrix: Soil
COC Reference: 82695

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Inorganics								
Total Solids	81	%	1	Std M 2540 B	05/02/13 11:00	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:31	WAT	18	
Acetone	Not detected	ug/kg	2,000	SW8260B/5035	05/08/13 15:31	WAT	73	
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	20	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	05/08/13 15:31	WAT	8.6	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:31	WAT	15	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	20	
2-Butanone (MEK)	Not detected	ug/kg	1,200	SW8260B/5035	05/08/13 15:31	WAT	20	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 15:31	WAT	30	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 15:31	WAT	44	
Vinyl chloride	110	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	19	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:31	WAT	12	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 15:31	WAT	9.4	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	12	
1,1-Dichloroethene	16	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	14	J
Methylene chloride	19	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	12	BJ
trans-1,2-Dichloroethene	66	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	13	J
1,1-Dichloroethane	57	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	11	J
cis-1,2-Dichloroethene	2,970	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	16	
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260B/5035	05/08/13 15:31	WAT	260	
Chloroform	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	13	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	16	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	7.8	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	05/08/13 15:31	WAT	30	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	05/08/13 15:31	WAT	17	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	9.4	
Benzene	44	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	15	J
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	14	
Trichloroethene	400	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	12	
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	15	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	12	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 15:31	WAT	16	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	7.0	
Toluene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	12	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	8.6	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	25	
Tetrachloroethene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	13	

J-Estimated value less than reporting limit, but greater than MDL
B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S56254.05 (continued)
Sample Tag: SB-121 (04/30/2013) (23-24)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	23	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	10	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	05/08/13 15:31	WAT	16	M
Chlorobenzene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	14	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	8.6	
Ethylbenzene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	18	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	34	
o-Xylene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	16	
Styrene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	13	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	05/08/13 15:31	WAT	16	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	10	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	23	
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	21	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	18	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	20	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	20	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	16	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	17	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	20	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	21	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	16	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	15	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	20	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	3.1	
n-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	19	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	05/08/13 15:31	WAT	12	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 15:31	WAT	15	
1,2,4-Trichlorobenzene	Not detected	ug/kg	510	SW8260B/5035	05/08/13 15:31	WAT	18	
1,2,3-Trichlorobenzene	Not detected	ug/kg	510	SW8260B/5035	05/08/13 15:31	WAT	22	
Naphthalene	Not detected	ug/kg	510	SW8260B/5035	05/08/13 15:31	WAT	20	
2-Methylnaphthalene	Not detected	ug/kg	510	SW8260B/5035	05/08/13 15:31	WAT	22	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S56254.06
Sample Tag: SB-122 (04/30/2013) (15-16)
Collected Date/Time: 04/30/2013 16:04
Matrix: Soil
COC Reference: 82695

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Inorganics								
Total Solids	91	%	1	Std M 2540 B	05/02/13 11:00	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:18	JGH	150	Y
Acetone	Not detected	ug/kg	10,000	SW8260B/5035	05/09/13 13:18	JGH	590	Y
Methyl iodide	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	160	Y
Carbon disulfide	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:18	JGH	69	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:18	JGH	120	Y
Acrylonitrile	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	160	Y
2-Butanone (MEK)	Not detected	ug/kg	9,500	SW8260B/5035	05/09/13 13:18	JGH	160	Y
Dichlorodifluoromethane	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:18	JGH	240	Y
Chloromethane	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:18	JGH	360	Y
Vinyl chloride	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	150	Y
Bromomethane	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:18	JGH	100	Y
Chloroethane	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:18	JGH	76	Y
Trichlorofluoromethane	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	100	Y
1,1-Dichloroethene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	110	Y
Methylene chloride	100	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	100	BJY
trans-1,2-Dichloroethene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	110	Y
1,1-Dichloroethane	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	88	Y
cis-1,2-Dichloroethene	1,600	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	130	Y
Tetrahydrofuran	Not detected	ug/kg	10,000	SW8260B/5035	05/09/13 13:18	JGH	2100	Y
Chloroform	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	110	Y
Bromochloromethane	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	130	Y
1,1,1-Trichloroethane	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	63	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	30,000	SW8260B/5035	05/09/13 13:18	JGH	250	Y
2-Hexanone	Not detected	ug/kg	30,000	SW8260B/5035	05/09/13 13:18	JGH	140	Y
Carbon tetrachloride	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	76	Y
Benzene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	120	Y
1,2-Dichloroethane	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	110	Y
Trichloroethene	14,400	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	100	Y
1,2-Dichloropropane	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	120	Y
Bromodichloromethane	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	95	Y
Dibromomethane	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:18	JGH	130	Y
cis-1,3-Dichloropropene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	57	Y
Toluene	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	100	Y
trans-1,3-Dichloropropene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	69	Y
1,1,2-Trichloroethane	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	200	Y
Tetrachloroethene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	110	Y

Y-Elevated reporting limit due to high target concentration
B-Compound also found in associated method blank J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S56254.06 (continued)
Sample Tag: SB-122 (04/30/2013) (15-16)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	180	Y
Dibromochloromethane	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	82	Y
1,2-Dibromoethane	Not detected	ug/kg	300	SW8260B/5035	05/09/13 13:18	JGH	130	YM
Chlorobenzene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	110	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	69	Y
Ethylbenzene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	150	Y
p,m-Xylene	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	280	Y
o-Xylene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	130	Y
Styrene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	110	Y
Isopropylbenzene	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:18	JGH	130	Y
Bromoform	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	82	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	180	Y
1,2,3-Trichloropropane	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	170	Y
n-Propylbenzene	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	150	Y
Bromobenzene	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	160	Y
1,3,5-Trimethylbenzene	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	160	Y
tert-Butylbenzene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	130	Y
1,2,4-Trimethylbenzene	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	140	Y
sec-Butylbenzene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	160	Y
p-Isopropyltoluene	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	170	Y
1,3-Dichlorobenzene	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	130	Y
1,4-Dichlorobenzene	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	120	Y
1,2-Dichlorobenzene	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	160	Y
1,2,3-Trimethylbenzene	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	25	Y
n-Butylbenzene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	150	Y
Hexachloroethane	Not detected	ug/kg	4,000	SW8260B/5035	05/09/13 13:18	JGH	95	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:18	JGH	120	Y
1,2,4-Trichlorobenzene	Not detected	ug/kg	4,200	SW8260B/5035	05/09/13 13:18	JGH	150	Y
1,2,3-Trichlorobenzene	Not detected	ug/kg	4,200	SW8260B/5035	05/09/13 13:18	JGH	180	Y
Naphthalene	Not detected	ug/kg	4,200	SW8260B/5035	05/09/13 13:18	JGH	160	Y
2-Methylnaphthalene	Not detected	ug/kg	4,200	SW8260B/5035	05/09/13 13:18	JGH	180	Y

Y-Elevated reporting limit due to high target concentration
M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S56254.07
Sample Tag: SB-123 (04/30/2013) (5-6)
Collected Date/Time: 04/30/2013 16:33
Matrix: Soil
COC Reference: 82695

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Inorganics								
Total Solids	86	%	1	Std M 2540 B	05/02/13 11:00	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	05/08/13 16:07	WAT	16	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 16:07	WAT	67	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	18	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	05/08/13 16:07	WAT	7.9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	05/08/13 16:07	WAT	14	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	18	
2-Butanone (MEK)	Not detected	ug/kg	1,100	SW8260B/5035	05/08/13 16:07	WAT	18	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 16:07	WAT	27	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 16:07	WAT	41	
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	17	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 16:07	WAT	11	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 16:07	WAT	8.6	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	11	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	13	
Methylene chloride	18	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	11	BJ
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	12	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	10.0	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	14	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 16:07	WAT	240	
Chloroform	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	12	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	15	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	7.1	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	05/08/13 16:07	WAT	28	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	05/08/13 16:07	WAT	16	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	8.6	
Benzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	14	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	13	
Trichloroethene	41	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	11	J
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	14	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	11	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 16:07	WAT	15	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	6.4	
Toluene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	11	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	7.9	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	23	
Tetrachloroethene	18	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	12	J
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	21	

B-Compound also found in associated method blank J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S56254.07 (continued)
Sample Tag: SB-123 (04/30/2013) (5-6)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	9.3	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	05/08/13 16:07	WAT	14	M
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	13	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	7.9	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	16	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	31	
o-Xylene	39	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	15	J
Styrene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	12	
Isopropylbenzene	65	ug/kg	400	SW8260B/5035	05/08/13 16:07	WAT	15	J
Bromoform	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	9.3	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	21	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	19	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	16	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	18	
1,3,5-Trimethylbenzene	29	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	19	J
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	15	
1,2,4-Trimethylbenzene	37	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	16	J
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	18	
p-Isopropyltoluene	93	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	19	J
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	14	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	14	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	19	
1,2,3-Trimethylbenzene	42.1	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	2.9	BJ
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	17	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 16:07	WAT	11	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 16:07	WAT	14	
1,2,4-Trichlorobenzene	Not detected	ug/kg	470	SW8260B/5035	05/08/13 16:07	WAT	16	
1,2,3-Trichlorobenzene	Not detected	ug/kg	470	SW8260B/5035	05/08/13 16:07	WAT	20	
Naphthalene	210	ug/kg	470	SW8260B/5035	05/08/13 16:07	WAT	18	J
2-Methylnaphthalene	345	ug/kg	470	SW8260B/5035	05/08/13 16:07	WAT	20	J

M-Result reported to MDL not RDL
J-Estimated value less than reporting limit, but greater than MDL
B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S56254.08
Sample Tag: DUP-1 (04/30/2013)
Collected Date/Time: 04/30/2013 00:01
Matrix: Soil
COC Reference: 82695

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Inorganics								
Total Solids	87	%	1	Std M 2540 B	05/02/13 11:00	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	05/09/13 13:00	JGH	15	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:00	JGH	61	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	16	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	05/09/13 13:00	JGH	7.2	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	05/09/13 13:00	JGH	12	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	16	
2-Butanone (MEK)	Not detected	ug/kg	980	SW8260B/5035	05/09/13 13:00	JGH	16	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	05/09/13 13:00	JGH	25	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	05/09/13 13:00	JGH	37	
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	16	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	05/09/13 13:00	JGH	10	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	05/09/13 13:00	JGH	7.8	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	10	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	12	
Methylene chloride	12	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	10	BJ
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	11	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	9.1	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	13	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:00	JGH	220	
Chloroform	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	11	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	14	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	6.5	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:00	JGH	25	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:00	JGH	14	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	7.8	
Benzene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	12	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	12	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	10	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	12	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	9.8	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	05/09/13 13:00	JGH	14	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	5.9	
Toluene	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	10	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	7.2	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	21	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	11	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	19	

B-Compound also found in associated method blank J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S56254.08 (continued)
Sample Tag: DUP-1 (04/30/2013)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	8.5	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	05/09/13 13:00	JGH	13	M
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	12	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	7.2	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	15	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	29	
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	14	
Styrene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	11	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	05/09/13 13:00	JGH	14	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	8.5	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	19	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	18	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	15	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	16	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	17	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	14	
1,2,4-Trimethylbenzene	22	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	14	J
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	16	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	18	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	13	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	12	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	17	
1,2,3-Trimethylbenzene	11.7	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	2.6	J
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	16	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	05/09/13 13:00	JGH	9.8	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	05/09/13 13:00	JGH	12	
1,2,4-Trichlorobenzene	Not detected	ug/kg	430	SW8260B/5035	05/09/13 13:00	JGH	15	
1,2,3-Trichlorobenzene	Not detected	ug/kg	430	SW8260B/5035	05/09/13 13:00	JGH	18	
Naphthalene	55	ug/kg	430	SW8260B/5035	05/09/13 13:00	JGH	16	J
2-Methylnaphthalene	39	ug/kg	430	SW8260B/5035	05/09/13 13:00	JGH	18	BJ

M-Result reported to MDL not RDL
J-Estimated value less than reporting limit, but greater than MDL
B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S56254.09
Sample Tag: Field Blank (04/30/2013)
Collected Date/Time: 04/30/2013 00:01
Matrix: Methanol
COC Reference: 82695

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	05/08/13 16:43	WAT	12	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 16:43	WAT	47	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	13	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	05/08/13 16:43	WAT	5.5	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	05/08/13 16:43	WAT	9.5	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	13	
2-Butanone (MEK)	Not detected	ug/kg	750	SW8260B/5035	05/08/13 16:43	WAT	13	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 16:43	WAT	19	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 16:43	WAT	29	
Vinyl chloride	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	12	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 16:43	WAT	8.0	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 16:43	WAT	6.0	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	8.0	
1,1-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	9.0	
Methylene chloride	13.5	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	8.0	BJ
trans-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	8.5	
1,1-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	7.0	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	10	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 16:43	WAT	170	
Chloroform	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	8.5	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	11	
1,1,1-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	5.0	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	05/08/13 16:43	WAT	20	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	05/08/13 16:43	WAT	11	
Carbon tetrachloride	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	6.0	
Benzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	9.5	
1,2-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	9.0	
Trichloroethene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	8.0	
1,2-Dichloropropane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	9.5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	7.5	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 16:43	WAT	11	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	4.5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	8.0	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	5.5	
1,1,2-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	16	
Tetrachloroethene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	8.5	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	15	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	6.5	
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260B/5035	05/08/13 16:43	WAT	10	M
Chlorobenzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	9.0	

B-Compound also found in associated method blank J-Estimated value less than reporting limit, but greater than MDL
M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S56254.09 (continued)
Sample Tag: Field Blank (04/30/2013)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	5.5	
Ethylbenzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	12	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	22	
o-Xylene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	11	
Styrene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	8.5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	05/08/13 16:43	WAT	11	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	6.5	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	15	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	14	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	12	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	13	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	13	
tert-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	11	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	11	
sec-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	13	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	14	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	10	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	9.5	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	13	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	2.0	
n-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	12	
Hexachloroethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 16:43	WAT	7.5	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 16:43	WAT	9.5	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	05/08/13 16:43	WAT	12	
1,2,3-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	05/08/13 16:43	WAT	14	
Naphthalene	Not detected	ug/kg	330	SW8260B/5035	05/08/13 16:43	WAT	13	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8260B/5035	05/08/13 16:43	WAT	14	

Analytical Laboratory Report

Lab Sample ID: S56254.10
Sample Tag: Trip Blank (04/30/2013)
Collected Date/Time: 04/30/2013 00:01
Matrix: Methanol
COC Reference: 82695

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	05/08/13 17:01	WAT	12	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 17:01	WAT	47	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	13	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	05/08/13 17:01	WAT	5.5	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	05/08/13 17:01	WAT	9.5	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	13	
2-Butanone (MEK)	Not detected	ug/kg	750	SW8260B/5035	05/08/13 17:01	WAT	13	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 17:01	WAT	19	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 17:01	WAT	29	
Vinyl chloride	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	12	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 17:01	WAT	8.0	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 17:01	WAT	6.0	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	8.0	
1,1-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	9.0	
Methylene chloride	11.5	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	8.0	BJ
trans-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	8.5	
1,1-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	7.0	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	10	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 17:01	WAT	170	
Chloroform	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	8.5	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	11	
1,1,1-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	5.0	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	05/08/13 17:01	WAT	20	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	05/08/13 17:01	WAT	11	
Carbon tetrachloride	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	6.0	
Benzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	9.5	
1,2-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	9.0	
Trichloroethene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	8.0	
1,2-Dichloropropane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	9.5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	7.5	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 17:01	WAT	11	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	4.5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	8.0	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	5.5	
1,1,2-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	16	
Tetrachloroethene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	8.5	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	15	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	6.5	
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260B/5035	05/08/13 17:01	WAT	10	M
Chlorobenzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	9.0	

B-Compound also found in associated method blank J-Estimated value less than reporting limit, but greater than MDL
M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S56254.10 (continued)
Sample Tag: Trip Blank (04/30/2013)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	5.5	
Ethylbenzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	12	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	22	
o-Xylene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	11	
Styrene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	8.5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	05/08/13 17:01	WAT	11	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	6.5	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	15	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	14	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	12	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	13	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	13	
tert-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	11	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	11	
sec-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	13	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	14	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	10	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	9.5	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	13	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	2.0	
n-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	12	
Hexachloroethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 17:01	WAT	7.5	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 17:01	WAT	9.5	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	05/08/13 17:01	WAT	12	
1,2,3-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	05/08/13 17:01	WAT	14	
Naphthalene	Not detected	ug/kg	330	SW8260B/5035	05/08/13 17:01	WAT	13	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8260B/5035	05/08/13 17:01	WAT	14	

Analytical Laboratory Report

Revised Report

Report ID: S56255.01(02)
Generated on 05/21/2013
Replaces report S56255.01(01) generated on 05/10/2013

Report to

Attention: Mike Smith
Applied Ecosystems
G4300 S. Saginaw St.
Burton, MI 48529

Phone: 810-715-2525 FAX: 810-715-2526
Email: msmith@appliedecosystems.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Tabitha Faust (tfaust@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S56255.01-S56255.04
Project: 12990-11-01/ Former Building 9-Delphi
Collected Date: 04/30/2013
Submitted Date/Time: 05/01/2013 08:41
Sampled by: Josh Adams
P.O. #: 11-4317-102

MDL's added to the report

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified.Full certification lists are available upon request.

Violetta F. Murshak

Violetta F. Murshak
Laboratory Director

Sample Summary (4 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S56255.01	MW-106SR	Groundwater	04/30/2013 13:04
S56255.02	DUP	Groundwater	04/30/2013 00:01
S56255.03	Field Blank	Groundwater	04/30/2013 00:01
S56255.04	Trip Blank	Groundwater	04/30/2013 00:01

Analytical Laboratory Report

Revised Report

Lab Sample ID: S56255.01
Sample Tag: MW-106SR
Collected Date/Time: 04/30/2013 13:04
Matrix: Groundwater
COC Reference: 82694

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.2	IR
2	1L Amber	None	Yes	4.2	IR
1	125ml Plastic	HNO3	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	05/01/13 12:30	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	05/07/13 21:45	EMR		
Metals								
Arsenic	0.002	mg/L	0.002	E200.8	05/10/13 16:03	PER	0.000052	
Barium	0.113	mg/L	0.005	E200.8	05/10/13 16:03	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 16:03	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 16:03	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 16:03	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	05/01/13 16:11	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 16:03	PER	0.00027	
Silver	0.0005	mg/L	0.0005	E200.8	05/10/13 16:03	PER	0.000018	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	05/08/13 12:31	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/08/13 12:31	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/08/13 12:31	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/08/13 12:31	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/08/13 12:31	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/08/13 12:31	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/08/13 12:31	PL	0.30	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/08/13 12:31	PL	0.28	
Chrysene	Not detected	ug/L	1	SW8270C	05/08/13 12:31	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/08/13 12:31	PL	0.32	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/08/13 12:31	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/08/13 12:31	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/08/13 12:31	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/08/13 12:31	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/08/13 12:31	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/08/13 12:31	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/08/13 12:31	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/08/13 12:31	PL	0.31	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 21:31	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 21:31	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.24	

Lab Sample ID: S56255.01 (continued)
Sample Tag: MW-106SR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 21:31	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 21:31	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 21:31	JGH	1.2	
Chloroform	0.51	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.15	J
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 21:31	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 21:31	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 21:31	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.15	

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S56255.01 (continued)
Sample Tag: MW-106SR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.21	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S56255.02
Sample Tag: DUP
Collected Date/Time: 04/30/2013 00:01
Matrix: Groundwater
COC Reference: 82694

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.2	IR
2	1L Amber	None	Yes	4.2	IR
1	125ml Plastic	HNO3	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	05/01/13 12:30	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	05/07/13 21:45	EMR		
Metals								
Arsenic	0.002	mg/L	0.002	E200.8	05/10/13 16:05	PER	0.000052	
Barium	0.112	mg/L	0.005	E200.8	05/10/13 16:05	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 16:05	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 16:05	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 16:05	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	05/01/13 16:07	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 16:05	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 16:05	PER	0.000018	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	05/08/13 12:53	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/08/13 12:53	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/08/13 12:53	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/08/13 12:53	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/08/13 12:53	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/08/13 12:53	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/08/13 12:53	PL	0.30	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/08/13 12:53	PL	0.28	
Chrysene	Not detected	ug/L	1	SW8270C	05/08/13 12:53	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/08/13 12:53	PL	0.32	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/08/13 12:53	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/08/13 12:53	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/08/13 12:53	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/08/13 12:53	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/08/13 12:53	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/08/13 12:53	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/08/13 12:53	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/08/13 12:53	PL	0.31	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 21:51	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 21:51	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.24	

Lab Sample ID: S56255.02 (continued)
Sample Tag: DUP

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 21:51	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 21:51	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 21:51	JGH	1.2	
Chloroform	0.52	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.15	J
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 21:51	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 21:51	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 21:51	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.15	

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S56255.02 (continued)
Sample Tag: DUP

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.21	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S56255.03
Sample Tag: Field Blank
Collected Date/Time: 04/30/2013 00:01
Matrix: Groundwater
COC Reference: 82694

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 20:10	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 20:10	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.24	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 20:10	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 20:10	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 20:10	JGH	1.2	
Chloroform	2	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 20:10	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 20:10	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.18	
Bromodichloromethane	0.95	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.19	J
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.26	
Dibromochloromethane	0.26	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.20	J

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S56255.03 (continued)
Sample Tag: Field Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 20:10	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.21	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S56255.04
Sample Tag: Trip Blank
Collected Date/Time: 04/30/2013 00:01
Matrix: Groundwater
COC Reference: 82694

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 20:30	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 20:30	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.24	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 20:30	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 20:30	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 20:30	JGH	1.2	
Chloroform	2	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 20:30	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 20:30	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.18	
Bromodichloromethane	0.93	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.19	J
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.26	
Dibromochloromethane	0.26	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.20	J

J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S56255.04 (continued)
Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 20:30	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.21	

Merit Laboratories, Inc.

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Phone (517) 332-0167 Fax (517) 332-4034
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C.O.C. PAGE # 1 OF 1

82694

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Mike Smith
COMPANY: Applied EcoSystems, Inc.
ADDRESS: 4300 S. Saginaw
CITY: Burton STATE: MI ZIP CODE: 48529
PHONE NO.: 810.715.2525 FAX NO.: 810.715.2526 P.O. NO.: 11-4317-102
E-MAIL ADDRESS: ae_mds@yahoo.com QUOTE NO.:

INVOICE TO

CONTACT NAME: RACER ☐ SAME
COMPANY: → 12990-11-01
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 12990-11-01 / Former Building 9-Delphi
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Josh Adams / [signature]

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☒ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☐ Other _____

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs	PNAs	8 RCRA Metals	Special Instructions
56255.01	4/30/13	13:04	MW-106SR	GW	6	2	3	1					X	X	X	Task #6
.02	4/30/13	—	DUP		6	2	3	1					X	X	X	
.03	4/30/13	—	Field Blank		3		3						X			
.04	4/30/13	—	Trip Blank		3		3						X			

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] / Applied EcoSystems, Inc. (Sampler)	DATE: 5/1/13	TIME: 8:41	RELINQUISHED BY: SIGNATURE/ORGANIZATION:
RECEIVED BY: SIGNATURE/ORGANIZATION:	DATE:	TIME:	RECEIVED BY: SIGNATURE/ORGANIZATION: Talanda Faust
RELINQUISHED BY: SIGNATURE/ORGANIZATION:	DATE:	TIME:	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS
RECEIVED BY: SIGNATURE/ORGANIZATION:	DATE:	TIME:	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS

DATE: 5/1/13 TIME: 8:41

NOTES: TEMP. ON ARRIVAL _____

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12