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MEMO

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From:
Brad Saunders

Date:
July 24, 2014

ARCADIS Project No.:
B0064486.2014.00003

Subject:
Employee Development Center Site (Facility ID: 0-0015260) -
2014 Groundwater and Storm Sewer Monitoring Activities Memo

ARCADIS of Michigan, LLC (ARCADIS) has prepared this memorandum on behalf of Revitalizing Auto Communities Environmental Response Trust (RACER) for Part 201 Corrective Action activities being completed at the Employee Development Center (EDC) located at 65 East University Drive in Pontiac, Michigan (Site) (see **Figure 1**). The purpose of this memorandum is to transmit groundwater and storm sewer sampling results for discussion with MDEQ. These activities were proposed to be completed within 1st quarter 2014. However, due to the local weather and site conditions during 1st quarter of 2014, the groundwater and storm sewer sampling activities were postponed until 2nd quarter of 2014.

May 2014 Groundwater Monitoring Event

On May 21 through May 23, 2014, ARCADIS collected groundwater samples from all the monitoring wells located at the Site. Sampling methods, techniques and analytical parameters were identical to the 1st, 2nd, and 3rd quarter groundwater sampling events completed in 2013. Locations of the monitoring wells and sampled storm sewers are shown on **Figure 2**.

Updated groundwater elevations are shown on **Table 1**. The groundwater gauging data from May 2014 indicates that groundwater flow remains radial from a mound in the vicinity of the former gasoline UST area as depicted on **Figure 3**.

The groundwater analytical results indicate the following:

- MW-24D: GW continues to exceed Part 201 Non-Residential Drinking Water (NRDW), Groundwater Surface Water Interface (GSI), and Groundwater Contact (GC) Criteria for benzene. Additionally, concentrations of toluene, ethylbenzene, xylenes, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene in GW continue to exceed Part 201 NRDW and GSI Criteria. Also, the concentration of naphthalene in GW continues to exceed Part 201 GSI Criteria, and the concentration of 2-methylnaphthalene in GW continues to exceed NRDW Criteria.
- MW-8: GW continues to exceed Part 201 NRDW and GSI Criteria for benzene, ethylbenzene, xylenes, and 1,2,4-trimethylbenzene. In addition, concentrations of naphthalene and 1,3,5-trimethylbenzene in GW continue to exceed Part 201 GSI Criteria.
- MW-26: GW continues to exceed Part 201 NRDW and GSI Criteria for benzene. Other contaminants remain below detection limits.
- MW-5: GW continues to exceed NRDW Criteria for trichloroethene only.
- MW-12 and MW-27: GW concentrations of trichloroethene remain detected but no longer exceed NRDW Criteria. In addition, GW is below Part 201 Generic Cleanup Criteria and/or laboratory method detection limits in MW-2, MW-4, MW-9, MW-10, MW-11, MW-13, MW-14, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, MW-24S, MW-25, MW-28, MW-29, MW-30, and MW-31.

Based on the groundwater analytical results following the June 2012 excavation activities, where groundwater impacts exist concentrations appear to be stable or decreasing in most wells. However, groundwater impacts at MW-24D and MW-8 appear to be stable and slightly increasing, respectively. Analytical results from the monitoring wells are included as **Table 2** and depicted on **Figure 4**. Laboratory analytical reports are included as **Appendix A**.

May 2014 Storm Sewer Sampling Event

To evaluate the GSI pathway and potential for site contaminants to be migrating into the storm sewer system, ARCADIS collected grab samples (SS-1 through SS-5) during a period of dry weather from five storm sewer manhole locations during the May 21 through May 23, 2014 sampling event. Originally, ARCADIS had originally proposed four storm sewer locations in the *2013 Post Corrective Action Activities Update Memorandum* submitted to the MDEQ on November 12, 2013. However, the final storm sewer sampling locations were refined based on maps depicting storm and sanitary sewer locations which were obtained from the City of Pontiac, as well as through an on-site meeting conducted with City of Pontiac personnel to clarify and confirm locations. The storm sewer sample locations and observed flow directions

are depicted on **Figure 2**. Manhole locations were selected based on manholes existing closest to the impacted area at the Site (this is within the Mill Street right-of-way), as well as upgradient and downgradient locations. The storm sewer grab samples were collected with a peristaltic pump and submitted for analysis of volatile organic compounds (VOCs) via USEPA Method 8260 and semi-volatile organic compounds (SVOCs) via USEPA Method 8270C. The storm sewer analytical results indicate the following:

- Observations of storm sewer flow revealed northeasterly flow inside of Mill Street manholes SS-1 and SS-2 draining into the Augusta Relief Drain at a location immediately north of the property line. Storm sewer flow was observed to be south inside of Mill Street manholes SS-3 and SS-4, leading to the storm sewer servicing University Drive. Flow at the SS-5 manhole on the southern portion of the Site was also observed to be south to the storm sewer servicing University Drive.
- SS-1, SS-2, SS-3, SS-4, and SS-5: concentrations of water sampled from the drains were below Part 201 Generic Cleanup Criteria and/or laboratory method detection limits. Slight detections of toluene were realized at SS-1 and SS-2 (to the north), and a low detection of trichloroethene was realized at SS-5 (to the south).

Recommendations

Based on the results of groundwater and storm sewer monitoring activities and current conditions at the site, ARCADIS proposes

- Conduct an additional round of storm sewer sampling at SS-1, SS-2, SS-3, SS-4, and SS-5 in September 2014. All samples will be analyzed for VOCs via EPA Method 8260.
- Install five (5) new deep soil borings (Borings B57 through B61) down to approximately 20 feet bgl or into the clay layer as necessary based on PID readings and geology at locations approximately 30 feet east, south, southwest and west of MW-24S&D. Sample and screen soil with a photoionization detector (PID). Based on observations and PID readings, potentially install three (3) additional borings down to approximately 20 feet bgl or into the clay layer at locations approximately 30 additional feet from MW-24S&D. Approximate locations of target additional investigation locations are included on **Figure 5**. Collect one to three soil samples (unsaturated or saturated) at different depths based on the highest PID readings from each boring location as necessary to define the magnitude and depth range of contaminants present. Submit samples to a certified laboratory for analysis of VOCs via EPA Method 8260. Temporary monitoring wells may be installed at boring locations based on PID readings, soil observations, and the locations of existing permanent wells.

- Based on observed geology and subsurface conditions, install either a monitoring well (MW-32) or a nested pair of monitoring wells (MW-32S and MW-32D) to evaluate shallow and deep groundwater conditions, to the extent present, at a location south of the former building basement area near the southwest corner of the Site (refer to **Figure 5** for approximate location) and assess for the potential of off-site migration at this location.
- Conduct an additional groundwater monitoring event in late October / early November to further evaluate levels of contaminants and trending for VOCs via EPA Method 8260 (only) at monitoring wells MW-5, MW-8, MW-9, MW-11, MW-12, MW-20, MW-21, MW-22, MW-23, MW-24S, MW-24D, MW-25, MW-26, MW-27, MW-28, MW-29, MW-30, MW-31, new well(s) MW-32S/D, and any temporary monitoring wells installed during the soil investigation described above.
- Monitoring is not proposed to be conducted during this event at monitoring wells MW-2 (north near Augusta Relief Drain), MW-4 (far southeast corner of property), MW-10 (east of Augusta Relief Drain), MW-13 (north of Augusta Relief Drain), MW-14 (north near Augusta Relief Drain), MW-16 (east of Augusta Relief Drain), MW-17 and MW-18 (along southern portion of Augusta Relief Drain), and MW-19 (west adjacent property). Analysis is also not proposed to be conducted for PAHs or lead during this event. This is based on the type of contaminants and location of contaminants and exceedances as defined through monitoring results to date, observed migration patterns, and the location of monitoring wells which are included in the proposed sampling event.

Enclosures:

Table 1: Groundwater Level & Elevation Data

Table 2: Groundwater Analytical Data

Table 3: Storm Sewer Analytical Data

Figure 1: Site Location Map

Figure 2: Site Map

Figure 3: Groundwater Elevation and Flow Map (September 2013)

Figure 4: Groundwater Analytical Map

Figure 5: Additional Investigation Location Map

Appendix A: Laboratory Analytical Reports

TABLE 1

**FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN**

GROUNDWATER LEVEL AND ELEVATION DATA

Monitoring/Extraction Well ID	Top of Casing Elevation	Date	Depth to Product (feet bgs)	Depth to Groundwater (feet bgs)	Product Thickness (feet)	Groundwater Elevation (feet bgs)*
EW-1 (3-13')	916.91	12/11/2006	NP	3.76	NP	913.15
	916.91	1/5/2007	NP	3.21	NP	913.70
	916.91	9/25/2007	NP	4.02	NP	912.89
	916.91	7/28/2008	NP	3.37	NP	913.54
	916.91	10/20/2008	NP	3.63	NP	913.28
	916.91	11/1/2010	Well was destroyed during building demolition activities			
EW-2 (4-14')	916.63	9/25/2007	NP	4.77	NP	911.86
	916.63	7/28/2008	3.92	4.22	0.30	912.94
	916.63	9/18/2008	4.62	4.82	0.20	912.16
	916.63	10/20/2008	4.31	4.54	0.23	912.49
	916.63	11/19/2008	4.31	4.34	0.03	912.34
	916.63	12/4/2008	4.40	4.43	0.03	912.25
	916.63	12/17/2008	NP	4.03	NP	912.60
	916.63	11/1/2010	3.86	3.90	0.04	912.80
	916.63	2/28/2011	NP	2.28	NP	914.35
	916.63	1/28/2013	Well was abandoned prior to the June 2012 excavation activities			
MW-2 (3-13')	917.46	12/11/2006	NP	6.07	NP	911.39
	917.46	1/5/2007	NP	5.36	NP	912.10
	917.46	9/25/2007	NP	7.20	NP	910.26
	917.46	2/8/2008	NM	NM	NM	NM
	917.46	7/28/2008	NP	6.66	NP	910.80
	917.46	11/1/2010	NP	7.73	NP	909.73
	917.46	12/2/2010	NP	7.35	NP	910.11
	917.46	1/28/2013	NP	7.22	NP	910.24
	917.46	6/24/2013	NP	5.95	NP	911.51
	917.46	9/17/2013	NP	7.34	NP	910.12
	917.46	5/21/2014	NP	5.39	NP	912.07
MW-3 (5-15')	916.90	12/11/2006	NP	5.01	NP	911.89
	916.90	1/5/2007	NP	4.96	NP	911.94
	916.90	9/25/2007	NP	5.48	NP	911.42
	916.90	2/8/2008	NP	4.32	NP	912.58
	916.90	7/28/2008	NP	4.95	NP	911.95
	916.90	11/1/2010	NP	4.89	NP	912.01
	916.90	12/2/2010	NP	4.35	NP	912.55
	916.90	1/28/2013	Well was abandoned prior to the June 2012 excavation activities			
MW-4 (3-13')	912.78	12/11/2006	NP	2.57	NP	910.21
	912.78	1/5/2007	NP	1.95	NP	910.83
	912.78	9/25/2007	NP	3.64	NP	909.14
	912.78	2/8/2008	NP	1.75	NP	911.03
	912.78	7/28/2008	NP	2.71	NP	910.07
	912.78	11/1/2010	NP	4.35	NP	908.43
	912.78	12/2/2010	NP	2.85	NP	909.93
	912.78	1/28/2013	NP	3.35	NP	909.43
	912.78	6/24/2013	NP	2.65	NP	910.13
	912.78	9/17/2013	NP	3.92	NP	908.86
	912.78	5/21/2014	NP	2.75	NP	910.03

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GROUNDWATER LEVEL AND ELEVATION DATA

Monitoring/Extraction Well ID	Top of Casing Elevation	Date	Depth to Product (feet bgs)	Depth to Groundwater (feet bgs)	Product Thickness (feet)	Groundwater Elevation (feet bgs)*
MW-5 (7-17')	916.14	12/11/2006	NP	10.35	NP	905.79
	916.14	1/5/2007	NP	10.23	NP	905.91
	916.14	9/25/2007	NP	9.51	NP	906.63
	916.14	2/8/2008	NP	8.84	NP	907.30
	916.14	7/28/2008	NP	9.83	NP	906.31
	916.14	11/1/2010	NP	6.83	NP	909.31
	916.14	12/2/2010	NP	5.40	NP	910.74
	916.14	1/28/2013	NP	5.12	NP	911.02
	916.14	6/24/2013	NP	4.01	NP	912.13
	916.14	9/17/2013	NP	4.68	NP	911.46
	916.14	5/21/2014	NP	3.71	NP	912.43
MW-6 (3-13')	916.66	9/25/2007	NP	2.76	NP	913.90
	916.66	2/8/2008	NP	2.46	NP	914.20
	916.66	7/28/2008	NP	2.29	NP	914.37
	916.66	11/1/2010	NP	2.62	NP	914.04
	916.66	12/2/2010	NP	2.45	NP	914.21
	916.66	1/28/2013	Well was abandoned prior to the June 2012 excavation activities			
MW-7 (5-15')	916.48	9/25/2007	NP	5.80	NP	910.68
	916.48	2/8/2008	NP	5.36	NP	911.12
	916.48	7/28/2008	NP	4.83	NP	911.65
	916.48	11/1/2010	NP	4.11	NP	912.37
	916.48	12/2/2010	NP	4.00	NP	912.48
	916.48	1/28/2013	Well was abandoned prior to the June 2012 excavation activities			
MW-8 (8-18')	916.66	9/25/2007	NP	9.31	NP	907.35
	916.66	2/8/2008	NP	9.13	NP	907.53
	916.66	7/28/2008	NP	9.03	NP	907.63
	916.66	11/1/2010	NP	6.28	NP	910.38
	916.66	12/2/2010	NP	5.40	NP	911.26
	916.66	1/28/2013	NP	3.95	NP	912.71
	916.66	6/24/2013	NP	3.22	NP	913.44
	916.66	9/17/2013	NP	3.64	NP	913.02
	916.66	5/21/2014	NP	3.46	NP	913.20
MW-9 (3-13')	915.19	9/25/2007	NP	7.13	NP	908.06
	915.19	2/8/2008	NP	NM	NP	NM
	915.19	7/28/2008	NP	6.55	NP	908.64
	915.19	11/1/2010	NP	6.35	NP	908.84
	915.19	12/2/2010	NP	5.15	NP	910.04
	915.19	1/28/2013	NP	5.02	NP	910.17
	915.19	6/24/2013	NP	4.43	NP	910.76
	915.19	9/17/2013	NP	5.20	NP	909.99
	915.19	5/21/2014	NP	3.89	NP	911.30

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Monitoring/Extraction Well ID	Top of Casing Elevation	Date	Depth to Product (feet bgs)	Depth to Groundwater (feet bgs)	Product Thickness (feet)	Groundwater Elevation (feet bgs)*
MW-10 (6-16')	918.71	9/25/2007	NP	10.56	NP	908.15
	918.71	2/8/2008	NM	NM	NM	NM
	918.71	7/28/2008	NP	10.19	NP	908.52
	918.71	11/1/2010	NP	11.62	NP	907.09
	918.71	12/2/2010	NP	11.00	NP	907.71
	918.71	1/28/2013	NP	10.59	NP	908.12
	918.71	6/24/2013	NP	8.45	NP	910.26
	918.71	9/17/2013	NP	10.04	NP	908.67
	918.71	5/21/2014	NP	8.25	NP	910.46
MW-11 (9-19')	916.50	9/25/2007	NP	12.03	NP	904.47
	916.50	2/8/2008	NP	12.65	NP	903.85
	916.50	7/28/2008	NP	11.79	NP	904.71
	916.50	11/1/2010	NP	7.00	NP	909.50
	916.50	12/2/2010	NP	5.85	NP	910.65
	916.50	1/28/2013	NP	4.80	NP	911.70
	916.50	6/24/2013	NP	4.05	NP	912.45
	916.50	9/17/2013	NP	4.04	NP	912.46
	916.50	5/21/2014	NP	3.99	NP	912.51
MW-12 (9-19')	916.10	9/25/2007	10.02	10.03	0.01	906.09
	916.10	2/8/2008	NP	9.33	NP	906.77
	916.10	7/28/2008	NP	10.43	NP	905.67
	916.10	11/1/2010	NP	6.40	NP	909.70
	916.10	12/2/2010	NP	4.65	NP	911.45
	916.10	1/28/2013	NP	4.24	NP	911.86
	916.10	6/24/2013	NP	3.30	NP	912.80
	916.10	9/17/2013	NP	3.93	NP	912.17
	916.10	5/21/2014	NP	2.96	NP	913.14
MW-13 (8-18')	915.12	2/8/2008	NP	4.76	NP	910.36
	915.12	7/28/2008	NP	4.85	NP	910.27
	915.12	11/1/2010	NP	5.91	NP	909.21
	915.12	12/2/2010	NP	5.25	NP	909.87
	915.12	1/28/2013	NP	5.25	NP	909.87
	915.12	6/24/2013	NP	4.46	NP	910.66
	915.12	9/17/2013	NP	5.58	NP	909.54
	915.12	5/21/2014	NP	3.80	NP	911.32
MW-14 (5-15')	915.34	2/8/2008	NP	4.96	NP	910.38
	915.34	7/28/2008	NP	4.98	NP	910.36
	915.34	11/1/2010	NP	5.97	NP	909.37
	915.34	12/2/2010	NP	5.60	NP	909.74
	915.34	1/28/2013	NP	5.25	NP	910.09
	915.34	6/24/2013	NP	4.62	NP	910.72
	915.34	9/17/2013	NP	5.88	NP	909.46
	915.34	5/21/2014	NP	4.02	NP	911.32

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Monitoring/Extraction Well ID	Top of Casing Elevation	Date	Depth to Product (feet bgs)	Depth to Groundwater (feet bgs)	Product Thickness (feet)	Groundwater Elevation (feet bgs)*
MW-15 (4-14')	916.78	2/8/2008	NP	2.47	NP	914.31
	916.78	7/28/2008	NP	1.52	NP	915.26
	916.78	11/1/2010	NP	3.26	NP	913.52
	916.78	12/2/2010	NP	1.45	NP	915.33
	916.78	1/28/2013	Well was abandoned prior to the June 2012 excavation activities			
MW-16 (4-9')	918.37	2/8/2008	NP	8.99	NP	909.38
	918.37	7/28/2008	NP	2.41	NP	915.96
	918.37	11/1/2010	NP	3.33	NP	915.04
	918.37	12/2/2010	NP	7.23	NP	911.14
	918.37	1/28/2013	NP	2.77	NP	915.60
	918.37	6/24/2013	NP	1.93	NP	916.44
	918.37	9/17/2013	NP	2.54	NP	915.83
	918.37	5/21/2014	NP	2.05	NP	916.32
MW-17 (2-7')	916.99	2/8/2008	NM	NM	NM	NM
	916.99	7/28/2008	NP	1.92	NP	915.07
	916.99	11/1/2010	NP	3.36	NP	913.63
	916.99	12/2/2010	NP	1.53	NP	915.46
	916.99	1/28/2013	NP	3.48	NP	913.51
	916.99	6/24/2013	NP	2.12	NP	914.87
	916.99	5/21/2014	NP	1.89	NP	915.10
MW-18 (4-14')	916.43	2/8/2008	NP	6.12	NP	910.31
	916.43	7/28/2008	NP	5.85	NP	910.58
	916.43	11/1/2010	NP	6.81	NP	909.62
	916.43	12/2/2010	NP	7.43	NP	909.00
	916.43	1/28/2013	NP	6.09	NP	910.34
	916.43	6/24/2013	NP	5.26	NP	911.17
	916.43	9/17/2013	NP	6.40	NP	910.03
	916.43	5/21/2014	NP	4.36	NP	912.07
MW-19 (3-13')	917.38	12/2/2010	NP	4.21	NP	913.17
	917.38	1/28/2013	NP	5.63	NP	911.75
	917.38	6/24/2013	NP	4.87	NP	912.51
	917.38	9/17/2013	NP	6.02	NP	911.36
	917.38	5/21/2014	NP	4.29	NP	913.09
MW-20 (3-13')	917.44	12/2/2010	NP	7.15	NP	910.29
	917.44	1/28/2013	NP	7.05	NP	910.39
	917.44	6/24/2013	NP	6.67	NP	910.77
	917.44	9/17/2013	NP	7.51	NP	909.93
	917.44	5/21/2014	NP	6.24	NP	911.20
MW-21 (5.5-10.5')	917.42	1/28/2013	NP	3.77	NP	913.65
	917.42	6/24/2013	NP	2.75	NP	914.67
	917.42	9/17/2013	NP	3.81	NP	913.61
	917.42	5/21/2014	NP	1.21	NP	916.21

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Monitoring/Extraction Well ID	Top of Casing Elevation	Date	Depth to Product (feet bgs)	Depth to Groundwater (feet bgs)	Product Thickness (feet)	Groundwater Elevation (feet bgs)*
MW-22 (4-14')	917.44	1/28/2013	NP	4.12	NP	913.32
	917.44	6/24/2013	NP	2.71	NP	914.73
	917.44	9/17/2013	NP	3.97	NP	913.47
	917.44	5/21/2014	NP	1.22	NP	916.22
MW-23 (3-13')	916.7	1/28/2013	NP	2.78	NP	913.92
	916.7	6/24/2013	NP	2.10	NP	914.60
	916.7	9/17/2013	NP	3.14	NP	913.56
	916.7	5/21/2014	NP	1.60	NP	915.10
MW-24S (4-9')	916.56	1/28/2013	NP	3.67	NP	912.89
	916.56	6/24/2013	NP	2.82	NP	913.74
	916.56	9/17/2013	NP	3.50	NP	913.06
	916.56	5/21/2014	NP	3.23	NP	913.33
MW-24D (15-20')	917.37	1/28/2013	NP	4.25	NP	913.12
	917.37	6/24/2013	NP	3.44	NP	913.93
	917.37	9/17/2013	NP	3.95	NP	913.42
	917.37	5/21/2014	NP	2.93	NP	914.44
MW-25 (4-14')	915.68	1/28/2013	NP	5.25	NP	910.43
	915.68	6/24/2013	NP	4.71	NP	910.97
	915.68	9/17/2013	NP	5.91	NP	909.77
	915.68	5/21/2014	NP	4.11	NP	911.57
MW-26 (3-13')	916.67	1/28/2013	NP	3.49	NP	913.18
	916.67	6/24/2013	NP	3.43	NP	913.24
	916.67	9/17/2013	NP	3.64	NP	913.03
	916.67	5/21/2014	NP	3.40	NP	913.27
MW-27 (6.5-16.5')	916.75	1/28/2013	NP	8.11	NP	908.64
	916.75	6/24/2013	NP	6.83	NP	909.92
	916.75	9/17/2013	NP	6.67	NP	910.08
	916.75	5/21/2014	NP	6.79	NP	909.96
MW-28 (4-9')	917.01	1/28/2013	NP	3.19	NP	913.82
	917.01	6/24/2013	NP	2.65	NP	914.36
	917.01	9/17/2013	NP	3.40	NP	913.61
	917.01	5/21/2014	NP	2.89	NP	914.12
MW-29 (4.5-9.5')	918.48	1/28/2013	NP	6.67	NP	911.81
	918.48	6/24/2013	NP	5.11	NP	913.37
	918.48	9/17/2013	NP	6.56	NP	911.92
	918.48	5/21/2014	NP	4.50	NP	913.98
MW-30 (3-13')	917.38	1/28/2013	NP	5.15	NP	912.23
	917.38	6/24/2013	NP	3.35	NP	914.03
	917.38	9/17/2013	NP	4.28	NP	913.10
	917.38	5/21/2014	NP	2.53	NP	914.85

TABLE 1

**FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN**

GROUNDWATER LEVEL AND ELEVATION DATA

Monitoring/Extraction Well ID	Top of Casing Elevation	Date	Depth to Product (feet bgs)	Depth to Groundwater (feet bgs)	Product Thickness (feet)	Groundwater Elevation (feet bgs)*
MW-31 (3-8')	915.11	1/28/2013	NP	6.11	NP	909.00
	915.11	6/24/2013	NP	5.47	NP	909.64
	915.11	9/17/2013	NP	5.97	NP	909.14
	915.11	5/21/2014	NP	5.06	NP	910.05

Notes:

- Elevations are based on feet above the North American Vertical Datum of 1988 (NAVD88).
- Coordinates are on the Michigan State Plane Coordinate System.
- Elevations and coordinates were determined during surveys completed on December 11, 2006, February 12, 2008, and November 1, 2010 .

NM = Well was not measured

NP = No product

* = Groundwater elevation was corrected for the presence of free product where applicable.

TABLE 2
FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER ANALYTICAL DATA

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels					EW-1 Outside North- NE Corner of Building - Former Gas Dispenser	MW-2 Northwest Portion of Site - Release Delineation Monitoring Well	MW-2 Northwest Portion of Site - Release Delineation Monitoring Well	MW-2 Northwest Portion of Site - Release Delineation Monitoring Well	MW-2 Northwest Portion of Site - Release Delineation Monitoring Well	MW-2 Northwest Portion of Site - Release Delineation Monitoring Well	MW-2 Northwest Portion of Site - Release Delineation Monitoring Well	MW-2 Northwest Portion of Site - Release Delineation Monitoring Well	MW-3 Outside NW Corner of Building - Dyno Pit	MW-3 Outside NW Corner of Building - Dyno Pit	MW-3 Outside NW Corner of Building - Dyno Pit
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	Flammability and Explosivity Screening Level	12/11/2006	12/11/2006	7/28/2008	11/1/2010	1/29/2013	6/26/2013	9/18/2013	5/21/2014	12/11/2006	2/11/2008	11/3/2010
Date Collected:																	
Screened Interval (feet bgl):							3-13	3-13	3-13	3-13	3-13	3-13	3-13	3-13	5-15	5-15	5-15
Analytical Parameter																	
TPH (EPA Method 418.1)	mg/L	none	none	none	none	none	NS	NS	NS	NA	NA	NA	NA	NA	NS	NA	NA
Semivolatile Hydrocarbons (EPA Method 8015B)																	
Gasoline Range Organics	mg/L	none	none	none	none	none	29	<0.1	NA	NA	NA	NA	NA	NA	12	NA	NA
Diesel Range Organics	mg/L	none	none	none	none	none	<0.5	<0.1	NA	NA	NA	NA	NA	NA	<0.1	NA	NA
Fuel Oil	mg/L	none	none	none	none	none	12	<0.1	NA	NA	NA	NA	NA	NA	1.9	NA	NA
Hydraulic Fluid	mg/L	none	none	none	none	none	<0.5	<0.1	NA	NA	NA	NA	NA	NA	<0.1	NA	NA
Kerosene	mg/L	none	none	none	none	none	<0.5	<0.1	NA	NA	NA	NA	NA	NA	<0.1	NA	NA
Mineral Spirits	mg/L	none	none	none	none	none	<0.5	<0.1	NA	NA	NA	NA	NA	NA	<0.1	NA	NA
Motor Oil	mg/L	none	none	none	none	none	<0.5	0.26	NA	NA	NA	NA	NA	NA	<0.1	NA	NA
PAH (EPA Method 8310)																	
1-Methylnaphthalene	ug/L	none	none	none	none	none	56	<0.1	NA	NA	<5	<5	<5	<5	0.55	<5	NA
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	25,000 (S)	ID	98	<0.1	<5	<5	<5	<5	<5	<5	0.41	<5	12
Acenaphthene	ug/L	3,800	38	4,200 (S)	4,200 (S)	ID	<1.5	<0.1	<5	<5	<5	<5	<5	<5	<0.1	<5	<5
Acenaphthylene	ug/L	150	ID	3,900 (S)	3,900 (S)	ID	8.2	<0.1	<5	<5	<5	<5	<5	<5	<0.1	<5	<5
Anthracene	ug/L	43 (S)	ID	43 (S)	43 (S)	ID	<1.5	<0.1	<5	<5	<5	<5	<5	<5	<0.1	<5	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	9.4 (S,AA)	ID	<1.5	<0.1	<1	<1	<1	<1	<1	<1	<0.1	<5	<1
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	1.0 (M,AA); 0.64	ID	<1.5	<0.1	<1	<1	<1	<1	<1	<1	<0.1	<5	<1
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	1.5 (S,AA)	ID	<1.5	<0.1	<1	<1	<1	<1	<1	<1	<0.1	<5	<1
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	1.0 (M,AA); 0.26 (S)	ID	<1.5	<0.1	<1	<1	<1	<1	<1	<1	<0.1	<5	<1
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	1.0 (M,AA); 0.8 (S)	ID	<1.5	<0.1	<1	<1	<1	<1	<1	<1	<0.1	<5	<1
Chrysene	ug/L	1.6 (S)	ID	ID	1.6 (S,AA)	ID	<1.5	<0.1	<1	<1	<1	<1	<1	<1	<0.1	<5	<1
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	2.0 (M,AA); 0.31	ID	<1.5	<0.1	<2	<2	<2	<2	<2	<2	<0.1	<5	<2
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	210 (S)	ID	<1.5	<0.1	<1	<1	<1	<1	<1	<1	<0.1	<5	<1
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	2,000 (S)	ID	<1.5	<0.1	<5	<5	<5	<5	<5	<5	<0.1	<5	<5
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	2.0 (M, AA); 0.022 (S)	ID	<0.19	<0.1	<2	<2	<2	<2	<2	<2	<0.1	<5	<2
Naphthalene	ug/L	1,500	11	31,000 (S)	31,000 (S)	NA	280	<0.1	<5	<5	<5	<5	<5	<5	2.4	6	31
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	1,000 (S)	ID	<1.5	<0.1	<2	<2	<2	<2	<2	<2	0.13	<5	<2
Pyrene	ug/L	140 (S)	ID	140 (S)	140 (S)	ID	<1.5	<0.1	<5	<5	<5	<5	<5	<5	<0.1	<5	<5
Other Target PAHs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCs (EPA Method 8260)																	
1,1,1-Trichloroethane	ug/L	200 (A)	89	1.3E+06 (S)	1.3E+06 (S)	ID	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	4,700	ID	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	21,000	NA	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	2.40E+06	3.80E+05	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50
1,1-Dichloroethene	ug/L	7.0 (A)	130	1,300	11,000	97,000	<5	<5	<1	<1	<1	<1	<1	<1	7	<30	<50
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	790	<5	<1	<1	<1	<1	<1	<1	40	80	450 Y
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	19,000	2.50E+06	13	<5	<1	<1	<1	<1	<1	<1	14	<30	<160
1,2-Dichloropropane	ug/L	5.0 (A)	230 (X)	36,000	16,000	5.50E+05	<5	<5	<1	<1	<1	<1	<1	<1	140	200	<50
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	61,000 (S)	ID	190	<5	<1	<1	<1	<1	<1	<1	13	<30	150 Y
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	2.4E+08 (S)	ID	<20	<20	<30	<30	<25	<25	<25	<25	21	<600	<1000
2-Hexanone	ug/L	2,900	ID	8.70E+06	5.20E+06	NA	11	<10	<50	<50	<50	<50	<50	<50	<10	<1,000	<3000
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	1.30E+07	ID	<10	<10	<50	<50	<50	<50	<50	<50	<10	<1,000	<3000
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	3.10E+07	1.50E+07	<100	<100	<50	<50	<50	<50	<50	<50	<100	<1,000	<3000
Benzene	ug/L	5.0 (A)	200 (X)	35,000	11,000	68,000	930	<5	<1	<1	<1	<1	<1	<1	3,000	2,530	4470 Y
Bromochloromethane	ug/L	none	none	none	none	none	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	1.40E+05	ID	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50
Bromomethane	ug/L	29	35	9,000	70,000	ID	<10	<10	<5	<5	<5	<5	<5	<5	<10	<100	<300
n-Butylbenzene	ug/L	230	ID	ID	5,900	ID	NA	NA	<1	<1	<1	<1	<1	<1	NA	<30	<50
Carbon disulfide	ug/L	2,300	ID	5.50E+05	1.2E+06 (S)	13,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<300
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	4,600	ID	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50
Chlorobenzene	ug/L	100 (A)	25	4.70E+05	86,000	1.60E+05	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50
Chloroethane	ug/L	1,700	1,100 (X)	5.7E+06 (S)	4.40E+05	1.10E+05	<10	<10	<5	<5	<5	<5	<5	<5	<10	<100	<300
Chloroform	ug/L	80 (A, W)	350	1.80E+05	1.50E+05	ID	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50
Chloromethane	ug/L	1,100	ID	45,000	4.90E+05	36,000	<10	<10	<5	<5	<5	<5	<5	<5	<10	<100	<300
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	18,000	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<300
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	1.7E+05 (S)	43,000	1,500	<5	<1	<1	<1	<1	<1	<1	54	150	650 Y
Methylene chloride	ug/L	5.0 (A)	1,500 (X)	1.40E+06	2.20E+05	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<300
n-Propylbenzene	ug/L	230	ID	ID	15,000	ID	NA	NA	<1	<1	<1	<1	<1	<1	NA	<30	100 Y
Styrene	ug/L	100 (A)	80 (X)	3.1E+05 (S)	9,700	1.40E+05	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	12,000	ID	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50
Toluene	ug/L	790 (E)	270	5.3E+05 (S)	5.3E+05 (S)	61,000	520	<5	<1	<1	<1	<1	<1	<1	140 J	740	70 Y
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	22,000	ID	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50
Vinyl chloride	ug/L	2.0 (A)	13 (X)	13,000	1,000	33,000	<2	<2	<1	<1	<1	<1	<1	<1	<2	<30	<50
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.10E+05	2.00E+05	5.30E+05	<5	<5	<1	<1	<1	<1	<1	<1	19	<30	<50
cis-1,3-Dichloropropene	ug/L	none	none	none	none	none	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50
m,p-Xylene	ug/L	none	none	none	none	none	4,400	<5	<2	<2	<1	<1	<1	<2	240	260	600 Y
o-Xylene	ug/L	none	none	none	none	none	1,200	<5	<1	<1	<2	<2	<2	<1	87	40	60 Y
Xylenes, Total	ug/L	280 (E)	41	1.9E+05 (S)	1.9E+05 (S)	70,000	5,600	<5	<3	NA	<3	<3	<3	<3	327	300	NA
trans-1,2-Dichloroethene	ug/L	100 (A)	1,500 (X)	2.0E+05 (S)	2.20E+05	2.3E+05 (S)	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50
trans-1,3-Dichloropropene	ug/L	none	none	none	none	none	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50
1,2-Dichloroethene (total)	ug/L	none	none	none	none	none	<5	<5	<2	NA	NA	NA	NA	NA	19	<30	NA
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	none	NA	NA	<5	<1	<1	<1	<1	<1	NA	<30	<50
Other Target VOCs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE (EPA Method 8021B)	ug/L	40 (E)	7,100 (X)	4.7E+07 (S)	6.												

TABLE 2
FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN
GROUNDWATER ANALYTICAL DATA

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels					MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	Sump in Basement	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
							Eastern Corner of Site	Eastern Corner of Site	Eastern Corner of Site	Eastern Corner of Site	Eastern Corner of Site	Eastern Corner of Site	Eastern Corner of Site	Outside East-SE Corner of Building - Boiler Room Sump Area		Outside East-SE Corner of Building - Boiler Room Sump Area	Outside East-SE Corner of Building - Boiler Room Sump Area	Outside East-SE Corner of Building - Boiler Room Sump Area	Outside East-SE Corner of Building - Boiler Room Sump Area	Outside East-SE Corner of Building - Boiler Room Sump Area	Outside East-SE Corner of Building - Boiler Room Sump Area	
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	Flammability and Explosivity Screening Level																
Date Collected:						12/11/2006	2/13/2008	11/2/2010	2/1/2013	6/26/2013	9/17/2013	5/22/2014		12/11/2006	12/11/2006	2/13/2008	11/3/2010	2/1/2013	6/25/2013	9/19/2013	5/22/2014	
Screened Interval (feet bgl):						3-13	3-13	3-13	3-13	3-13	3-13	3-13		7-17	7-17	7-17	7-17	7-17	7-17	7-17	7-17	
Analytical Parameter																						
TPH (EPA Method 418.1)	mg/L	none	none	none	none	none	NS	NA	NA	NA	NA	NA	NA	NS	NS	NA	NA	NA	NA	NA	NA	
Semivolatile Hydrocarbons (EPA Method 8015B)																						
Gasoline Range Organics	mg/L	none	none	none	none	none	<0.1	NA	NA	NA	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	NA	NA	
Diesel Range Organics	mg/L	none	none	none	none	none	<0.11	NA	NA	NA	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	NA	NA	
Fuel Oil	mg/L	none	none	none	none	none	0.79	NA	NA	NA	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	NA	NA	
Hydraulic Fluid	mg/L	none	none	none	none	none	<0.11	NA	NA	NA	NA	NA	NA	1.2	<0.1	NA	NA	NA	NA	NA	NA	
Kerosene	mg/L	none	none	none	none	none	<0.11	NA	NA	NA	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	NA	NA	
Mineral Spirits	mg/L	none	none	none	none	none	<0.11	NA	NA	NA	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	NA	NA	
Motor Oil	mg/L	none	none	none	none	none	<0.11	NA	NA	NA	NA	NA	NA	<0.1	0.19	NA	NA	NA	NA	NA	NA	
PAH (EPA Method 8310)																						
1-Methylnaphthalene	ug/L	none	none	none	none	none	<0.1	<5	NA	<5	<5	<5	<5	<0.1	<0.1	<5	NA	<5	<5	<5	<5	
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	25,000 (S)	ID	<0.1	<5	<5	<5	<5	<5	<5	<0.1	<0.1	<5	<5	<5	<5	<5	<5	
Acenaphthene	ug/L	3,800	38	4,200 (S)	4,200 (S)	ID	<0.1	<5	<5	<5	<5	<5	<5	<0.1	<0.1	<5	<5	<5	<5	<5	<5	
Acenaphthylene	ug/L	150	ID	3,900 (S)	3,900 (S)	ID	<0.1	<5	<5	<5	<5	<5	<5	<0.1	<0.1	<5	<5	<5	<5	<5	<5	
Anthracene	ug/L	43 (S)	ID	43 (S)	43 (S)	ID	<0.1	<5	<5	<5	<5	<5	<5	<0.1	<0.1	<5	<5	<5	<5	<5	<5	
Benz(a)anthracene	ug/L	8.5	ID	NLV	9.4 (S,AA)	ID	<0.1	<5	<1	<1	<1	<1	<1	<0.1	<0.1	<5	<1	<1	<1	<1	<1	
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	1.0 (M,AA); 0.64	ID	<0.1	<5	<1	<1	<1	<1	<1	<0.1	<0.1	<5	<1	<1	<1	<1	<1	
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	1.5 (S,AA)	ID	<0.1	<5	<1	<1	<1	<1	<1	<0.1	<0.1	<5	<1	<1	<1	<1	<1	
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	1.0 (M,AA); 0.26 (S)	ID	<0.1	<5	<1	<1	<1	<1	<1	<0.1	<0.1	<5	<1	<1	<1	<1	<1	
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	1.0 (M,AA); 0.8 (S)	ID	<0.1	<5	<1	<1	<1	<1	<1	<0.1	<0.1	<5	<1	<1	<1	<1	<1	
Chrysene	ug/L	1.6 (S)	ID	ID	1.6 (S,AA)	ID	<0.1	<5	<1	<1	<1	<1	<1	<0.1	<0.1	<5	<1	<1	<1	<1	<1	
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	2.0 (M,AA); 0.31	ID	<0.1	<5	<2	<2	<2	<2	<2	<0.1	<0.1	<5	<2	<2	<2	<2	<2	
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	210 (S)	ID	<0.1	<5	<1	<1	<1	<1	<1	<0.1	<0.1	<5	<1	<1	<1	<1	<1	
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	2,000 (S)	ID	<0.1	<5	<5	<5	<5	<5	<5	<0.1	<0.1	<5	<5	<5	<5	<5	<5	
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	2.0 (M, AA); 0.022 (S)	ID	<0.1	<5	<2	<2	<2	<2	<2	<0.015	<0.1	<5	<2	<2	<2	<2	<2	
Naphthalene	ug/L	1,500	11	31,000 (S)	31,000 (S)	NA	<0.1	<5	<5	<5	<5	<5	<5	<0.1	<0.1	<5	<5	<5	<5	<5	<5	
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	1,000 (S)	ID	0.12	<5	<2	<2	<2	<2	<2	<0.1	<0.1	<5	<2	<2	<2	<2	<2	
Pyrene	ug/L	140 (S)	ID	140 (S)	140 (S)	ID	0.15	<5	<5	<5	<5	<5	<5	0.15	<0.1	<5	<5	<5	<5	<5	<5	
Other Target PAHs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
VOCs (EPA Method 8260)																						
1,1,1-Trichloroethane	ug/L	200 (A)	89	1.3E+06 (S)	1.3E+06 (S)	ID	<5	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	4,700	ID	<5	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	21,000	NA	<5	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	2.40E+06	3.80E+05	<5	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethene	ug/L	7.0 (A)	130	1,300	11,000	97,000	<5	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	<5	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	19,000	2.50E+06	<5	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	ug/L	5.0 (A)	230 (X)	36,000	16,000	5.50E+05	<5	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	61,000 (S)	ID	<5	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	2.4E+08 (S)	ID	<20	<30	<30	<25	<25	<25	<25	<20	<20	<30	<30	<25	<25	<25	<25	
2-Hexanone	ug/L	2,900	ID	8.70E+06	5.20E+06	NA	<10	<50	<50	<50	<50	<50	<50	<10	<10	<50	<50	<50	<50	<50	<50	
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	1.30E+07	ID	<10	<50	<50	<50	<50	<50	<50	<10	<10	<50	<50	<50	<50	<50	<50	
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	3.10E+07	1.50E+07	<100	<50	<50	<50	<50	<50	<50	<100	<100	<50	<50	<50	<50	<50	<50	
Benzene	ug/L	5.0 (A)	200 (X)	35,000	11,000	68,000	<5	<1	<1	<1	<1	<1	<1	8	<5	<1	<1	<1	<1	<1	<1	
Bromochloromethane	ug/L	none	none	none	none	none	<5	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	1.40E+05	ID	<5	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	
Bromomethane	ug/L	29	35	9,000	70,000	ID	<10	<5	<5	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	
n-Butylbenzene	ug/L	230	ID	ID	5,900	ID	NA	<1	<1	<1	<1	<1	<1	<1	NA	NA	<1	<1	<1	<1	<1	
Carbon disulfide	ug/L	2,300	ID	5.50E+05	1.2E+06 (S)	13,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	4,600	ID	<5	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	
Chlorobenzene	ug/L	100 (A)	25	4.70E+05	86,000	1.60E+05	<5	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	
Chloroethane	ug/L	1,700	1,100 (X)	5.7E+06 (S)	4.40E+05	1.10E+05	<10	<5	<5	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	
Chloroform	ug/L	80 (A, W)	350	1.80E+05	1.50E+05	ID	<5	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	
Chloromethane	ug/L	1,100	ID	45,000	4.90E+05	36,000	<10	<5	<5	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	18,000	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	1.7E+05 (S)	43,000	<5	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	
Methylene chloride	ug/L	5.0 (A)	1,500 (X)	1.40E+06	2.20E+05	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
n-Propylbenzene	ug/L	230	ID	ID	15,000	ID	NA	<1	<1	<1	<1	<1	<1	NA	NA	<1	<1	<1	<1	<1	<1	
Styrene	ug/L	100 (A)	80 (X)	3.1E+05 (S)	9,700	1.40E+05	<5	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	12,000	ID	<5	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	
Toluene	ug/L	790 (E)	270	5.3E+05 (S)	5.3E+05 (S)	61,000	<5	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	22,000	ID	<5	<1	<1	<1	<1	<1	<1	<5	11	14	23	59	62	65	49	
Vinyl chloride	ug/L	2.0 (A)	13 (X)	13,000	1,000	33,000	<2	<1	<1	<1	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.1																		

Notes: See Last Page

TABLE 2
FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER ANALYTICAL DATA

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels					MW-6 Northeast Corner of Building - Classroom	MW-6 Northeast Corner of Building - Classroom	MW-7 Southern Portion of East Garage	MW-7 Southern Portion of East Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage
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TABLE 2
FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN
GROUNDWATER ANALYTICAL DATA

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels					MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11
							East-Northeast of Building	East-Northeast of Building	East-Northeast of Building	East-Northeast of Building	East-Northeast of Building	East-Northeast of Building	East-Northeast of Building	West of Building on Sidewalk	West of Building on Sidewalk	West of Building on Sidewalk	West of Building on Sidewalk	West of Building on Sidewalk	West of Building on Sidewalk
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	Flammability and Explosivity Screening Level													
Date Collected:						2/12/2008	7/28/2008	11/2/2010	1/29/2013	6/25/2013	9/17/2013	5/21/2014	2/13/2008	11/2/2010	1/30/2013	6/27/2013	9/19/2013	5/23/2014	
Screened Interval (feet bgl):						6-16	6-16	6-16	6-16	6-16	6-16	6-16	9-19	9-19	9-19	9-19	9-19	9-19	
Analytical Parameter																			
TPH (EPA Method 418.1)	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Hydrocarbons (EPA Method 8015B)																			
Gasoline Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fuel Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydraulic Fluid	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kerosene	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mineral Spirits	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Motor Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PAH (EPA Method 8310)																			
1-Methylnaphthalene	ug/L	none	none	none	none	none	<5	NA	NA	<5	<5	<5	<5	<5	NA	<5	<5	<5	<5
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	25,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acenaphthene	ug/L	3,800	38	4,200 (S)	4,200 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acenaphthylene	ug/L	150	ID	3,900 (S)	3,900 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Anthracene	ug/L	43 (S)	ID	43 (S)	43 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	9.4 (S,AA)	ID	<5	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	1.0 (M,AA); 0.64	ID	<5	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	1.5 (S,AA)	ID	<5	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	1.0 (M,AA); 0.26 (S)	ID	<5	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	1.0 (M,AA); 0.8 (S)	ID	<5	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1
Chrysene	ug/L	1.6 (S)	ID	ID	1.6 (S,AA)	ID	<5	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	2.0 (M,AA); 0.31	ID	<5	<2	<2	<2	<2	<2	<2	<5	<2	<2	<2	<2	<2
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	210 (S)	ID	<5	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<1
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	2,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	2.0 (M, AA); 0.022 (S)	ID	<5	<2	<2	<2	<2	<2	<2	<5	<2	<2	<2	<2	<2
Naphthalene	ug/L	1,500	11	31,000 (S)	31,000 (S)	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	1,000 (S)	ID	<5	<2	<2	<2	<2	<2	<2	<5	<2	<2	<2	<2	<2
Pyrene	ug/L	140 (S)	ID	140 (S)	140 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Other Target PAHs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCs (EPA Method 8260)																			
1,1,1-Trichloroethane	ug/L	200 (A)	89	1.3E+06 (S)	1.3E+06 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	4,700	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	21,000	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	2.40E+06	3.80E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	7.0 (A)	130	1,300	11,000	97,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	19,000	2.50E+06	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	5.0 (A)	230 (X)	36,000	16,000	5.50E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	61,000 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	2.4E+08 (S)	ID	<30	<30	<30	<25	<25	<25	<25	<30	<30	<25	<25	<25	<25
2-Hexanone	ug/L	2,900	ID	8.70E+06	5.20E+06	NA	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	1.30E+07	ID	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	3.10E+07	1.50E+07	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	5.0 (A)	200 (X)	35,000	11,000	68,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	1.40E+05	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	70,000	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	5,900	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide	ug/L	2,300	ID	5.50E+05	1.2E+06 (S)	13,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	4,600	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	25	4.70E+05	86,000	1.60E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	1,700	1,100 (X)	5.7E+06 (S)	4.40E+05	1.10E+05	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		

TABLE 2
FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN
GROUNDWATER ANALYTICAL DATA

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels					MW-12 Outside East of the Building - Northeast of Freight Elevator	MW-12 Outside East of the Building - Northeast of Freight Elevator	MW-12 Outside East of the Building - Northeast of Freight Elevator	MW-12 Outside East of the Building - Northeast of Freight Elevator	MW-12 Outside East of the Building - Northeast of Freight Elevator	MW-12 Outside East of the Building - Northeast of Freight Elevator		MW-13 North of Building Along Mill Street Fence	MW-13 North of Building Along Mill Street Fence	MW-13 North of Building Along Mill Street Fence	MW-13 North of Building Along Mill Street Fence	MW-13 North of Building Along Mill Street Fence	MW-13 North of Building Along Mill Street Fence
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	Flammability and Explosivity Screening Level													
Date Collected:						2/12/2008	11/3/2010	1/31/2013	6/27/2013	9/19/2013	5/22/2014		2/12/2008	11/1/2010	1/29/2013	6/26/2013	9/18/2013	5/21/2014	
Screened Interval (feet bgl):						9-19	9-19	9-19	9-19	9-19	9-19		8-18	8-18	8-18	8-18	8-18	8-18	
Analytical Parameter																			
TPH (EPA Method 418.1)	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	
Semivolatile Hydrocarbons (EPA Method 8015B)																			
Gasoline Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	
Diesel Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	
Fuel Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	
Hydraulic Fluid	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	
Kerosene	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	
Mineral Spirits	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	
Motor Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	
PAH (EPA Method 8310)																			
1-Methylnaphthalene	ug/L	none	none	none	none	none	<5	NA	<5	<5	<5	<5	<5	NA	<5	<5	<5	<5	
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	25,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Acenaphthene	ug/L	3,800	38	4,200 (S)	4,200 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Acenaphthylene	ug/L	150	ID	3,900 (S)	3,900 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Anthracene	ug/L	43 (S)	ID	43 (S)	43 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Benz(a)anthracene	ug/L	8.5	ID	NLV	9.4 (S,AA)	ID	<5	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	1.0 (M,AA); 0.64	ID	<5	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	1.5 (S,AA)	ID	<5	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	1.0 (M,AA); 0.26 (S)	ID	<5	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	1.0 (M,AA); 0.8 (S)	ID	<5	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	
Chrysene	ug/L	1.6 (S)	ID	ID	1.6 (S,AA)	ID	<5	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	2.0 (M,AA); 0.31	ID	<5	<2	<2	<2	<2	<2	<2	<5	<2	<2	<2	<2	
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	210 (S)	ID	<5	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	2,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	2.0 (M, AA); 0.022 (S)	ID	<5	<2	<2	<2	<2	<2	<2	<5	<2	<2	<2	<2	
Naphthalene	ug/L	1,500	11	31,000 (S)	31,000 (S)	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	1,000 (S)	ID	<5	<2	<2	<2	<2	<2	<2	<5	<2	<2	<2	<2	
Pyrene	ug/L	140 (S)	ID	140 (S)	140 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Other Target PAHs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
VOCs (EPA Method 8260)																			
1,1,1-Trichloroethane	ug/L	200 (A)	89	1.3E+06 (S)	1.3E+06 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	4,700	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	21,000	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	2.40E+06	3.80E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethene	ug/L	7.0 (A)	130	1,300	11,000	97,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	19,000	2.50E+06	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	ug/L	5.0 (A)	230 (X)	36,000	16,000	5.50E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	61,000 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	2.4E+08 (S)	ID	<30	<30	<25	<25	<25	<25	<25	<30	<30	<25	<25	<25	
2-Hexanone	ug/L	2,900	ID	8.70E+06	5.20E+06	NA	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	1.30E+07	ID	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	3.10E+07	1.50E+07	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	
Benzene	ug/L	5.0 (A)	200 (X)	35,000	11,000	68,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Bromochloromethane	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	1.40E+05	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Bromomethane	ug/L	29	35	9,000	70,000	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
n-Butylbenzene	ug/L	230	ID	ID	5,900	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Carbon disulfide	ug/L	2,300	ID	5.50E+05	1.2E+06 (S)	13,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	4,600	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chlorobenzene	ug/L	100 (A)	25	4.70E+05	86,000	1.60E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chloroethane	ug/L	1,700	1,100 (X)	5.7E+06 (S)	4.40E+05	1.10E+05	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Chloroform	ug/L	80 (A, W)	350	1.80E+05	1.50E+05	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chloromethane	ug/L</																		

TABLE 2
FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER ANALYTICAL DATA

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels					MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-15	MW-15	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16
							North of Building Along Mill Street Fence	North of Building Along Mill Street Fence	North of Building Along Mill Street Fence	North of Building Along Mill Street Fence	North of Building Along Mill Street Fence	North of Building Along Mill Street Fence	East-Northeast of Building	East-Northeast of Building	East-Northeast of Building	East-Northeast of Building	East-Northeast of Building	East-Northeast of Building	East-Northeast of Building	East-Northeast of Building
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	Flammability and Explosivity Screening Level														
Date Collected:						2/12/2008	11/1/2010	1/29/2013	6/26/2013	9/19/2013	5/21/2014	2/12/2008	11/3/2010	2/12/2008	11/2/2010	2/1/2013	6/25/2013	9/17/2013	5/21/2014	
Screened Interval (feet bgl):						5-15	5-15	5-15	5-15	5-15	5-15	4-14	4-14	4-9	4-9	4-9	4-9	4-9	4-9	
Analytical Parameter																				
TPH (EPA Method 418.1)	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Hydrocarbons (EPA Method 8015B)																				
Gasoline Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fuel Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydraulic Fluid	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kerosene	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mineral Spirits	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Motor Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PAH (EPA Method 8310)																				
1-Methylnaphthalene	ug/L	none	none	none	none	none	<5	NA	<5	<5	<5	<5	11	NA	<5	NA	<5	<5	<5	<5
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	25,000 (S)	ID	<5	<5	<5	<5	<5	<5	16	59	<5	<5	<5	<5	<5	<5
Acenaphthene	ug/L	3,800	38	4,200 (S)	4,200 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acenaphthylene	ug/L	150	ID	3,900 (S)	3,900 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Anthracene	ug/L	43 (S)	ID	43 (S)	43 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	9.4 (S,AA)	ID	<5	<1	<1	<1	<1	<1	<5	<1	<5	<1	<1	<1	<1	<1
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	1.0 (M,AA); 0.64	ID	<5	<1	<1	<1	<1	<1	<5	<1	<5	<1	<1	<1	<1	<1
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	1.5 (S,AA)	ID	<5	<1	<1	<1	<1	<1	<5	<1	<5	<1	<1	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	1.0 (M,AA); 0.26 (S)	ID	<5	<1	<1	<1	<1	<1	<5	<1	<5	<1	<1	<1	<1	<1
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	1.0 (M,AA); 0.8 (S)	ID	<5	<1	<1	<1	<1	<1	<5	<1	<5	<1	<1	<1	<1	<1
Chrysene	ug/L	1.6 (S)	ID	ID	1.6 (S,AA)	ID	<5	<1	<1	<1	<1	<1	<5	<1	<5	<1	<1	<1	<1	<1
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	2.0 (M,AA); 0.31	ID	<5	<2	<2	<2	<2	<2	<5	<2	<5	<2	<2	<2	<2	<2
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	210 (S)	ID	<5	<1	<1	<1	<1	<1	<5	<1	<5	<1	<1	<1	<1	<1
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	2,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	2.0 (M, AA); 0.022 (S)	ID	<5	<2	<2	<2	<2	<2	<5	<2	<5	<2	<2	<2	<2	<2
Naphthalene	ug/L	1,500	11	31,000 (S)	31,000 (S)	NA	<5	<5	<5	<5	<5	<5	50	137	<5	<5	<5	<5	<5	<5
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	1,000 (S)	ID	<5	<2	<2	<2	<2	<2	<5	<2	<5	<2	<2	<2	<2	<2
Pyrene	ug/L	140 (S)	ID	140 (S)	140 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Other Target PAHs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCs (EPA Method 8260)																				
1,1,1-Trichloroethane	ug/L	200 (A)	89	1.3E+06 (S)	1.3E+06 (S)	ID	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	4,700	ID	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	21,000	NA	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	2.40E+06	3.80E+05	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	7.0 (A)	130	1,300	11,000	97,000	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	<1	<1	<1	<1	<1	<1	270	810 Y	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	19,000	2.50E+06	<1	<1	<1	<1	<1	<1	<30	<40	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	5.0 (A)	230 (X)	36,000	16,000	5.50E+05	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	61,000 (S)	ID	<1	<1	<1	<1	<1	<1	80	250 Y	<1	<1	<1	<1	<1	<1
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	2.4E+08 (S)	ID	<30	<30	<25	<25	<25	<25	<600	<500	<30	<30	<25	<25	<25	<25
2-Hexanone	ug/L	2,900	ID	8.70E+06	5.20E+06	NA	<50	<50	<50	<50	<50	<50	<1,000	<1000	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	1.30E+07	ID	<50	<50	<50	<50	<50	<50	<1,000	<1000	<50	<50	<50	<50	<50	<50
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	3.10E+07	1.50E+07	<50	<50	<50	<50	<50	<50	<1,000	<1000	<50	<50	<50	<50	<50	<50
Benzene	ug/L	5.0 (A)	200 (X)	35,000	11,000	68,000	<1	<1	<1	<1	<1	<1	1,460	1000 Y	<1	<1	<1	<1	<1	<1
Bromochloromethane	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	1.40E+05	ID	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	70,000	ID	<5	<5	<5	<5	<5	<5	<100	<100	<5	<5	<5	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	5,900	ID	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1
Carbon disulfide	ug/L	2,300	ID	5.50E+05	1.2E+06 (S)	13,000	<5	<5	<5	<5	<5									

TABLE 2

FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER ANALYTICAL DATA

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels					MW-17		MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18
							East of Building - Auditorium		East of Building - Auditorium	East of Building - Auditorium	East of Building - Auditorium	East of Building - Auditorium	East of Building - Auditorium	East of Building - Auditorium	East of Building - Auditorium	East of Building - Auditorium	East of Building - Auditorium	East of Building - Auditorium	East of Building - Auditorium	
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	Flammability and Explosivity Screening Level														
Date Collected:						7/28/2008		11/2/2010	2/1/2013	6/26/2013	9/17/2013	5/22/2014	2/13/2008	11/2/2010	2/1/2013	6/26/2013	9/17/2013	5/22/2014		
Screened Interval (feet bgl):						2-7		2-7	2-7	2-7	2-7	2-7	4-14	4-14	4-14	4-14	4-14	4-14		
Analytical Parameter																				
TPH (EPA Method 418.1)		mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Hydrocarbons (EPA Method 8015B)																				
Gasoline Range Organics		mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics		mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fuel Oil		mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydraulic Fluid		mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kerosene		mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mineral Spirits		mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Motor Oil		mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PAH (EPA Method 8310)																				
1-Methylnaphthalene		ug/L	none	none	none	none	none	NA	NA	<5	NA	NA	<5	<5	<5	NA	<5	<5	<5	<5
2-Methylnaphthalene		ug/L	750	19	25,000 (S)	25,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acenaphthene		ug/L	3,800	38	4,200 (S)	4,200 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acenaphthylene		ug/L	150	ID	3,900 (S)	3,900 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Anthracene		ug/L	43 (S)	ID	43 (S)	43 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Benz(a)anthracene		ug/L	8.5	ID	NLV	9.4 (S,AA)	ID	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1
Benzo(a)pyrene		ug/L	5.0 (A)	ID	NLV	1.0 (M,AA); 0.64	ID	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1
Benzo(b)fluoranthene		ug/L	1.5 (S, AA)	ID	ID	1.5 (S,AA)	ID	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1
Benzo(g,h,i)perylene		ug/L	1.0 (M); 0.26 (S)	NA	NLV	1.0 (M,AA); 0.26 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1
Benzo(k)fluoranthene		ug/L	1.0 (M); 0.8 (S)	NA	NLV	1.0 (M,AA); 0.8 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1
Chrysene		ug/L	1.6 (S)	ID	ID	1.6 (S,AA)	ID	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1
Dibenzo(a,h)anthracene		ug/L	2.0 (M); 0.85	ID	NLV	2.0 (M,AA); 0.31	ID	<2	<2	<2	<2	<2	<2	<2	<5	<2	<2	<2	<2	<2
Fluoranthene		ug/L	210 (S)	1.6	210 (S)	210 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1
Fluorene		ug/L	2,000 (S)	12	2,000 (S)	2,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Indeno(1,2,3-cd)pyrene		ug/L	2.0 (M); 0.022 (S)	ID	NLV	2.0 (M, AA); 0.022 (S)	ID	<2	<2	<2	<2	<2	<2	<2	<5	<2	<2	<2	<2	<2
Naphthalene		ug/L	1,500	11	31,000 (S)	31,000 (S)	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Phenanthrene		ug/L	150	2.0 (M); 1.4	1,000 (S)	1,000 (S)	ID	<2	<2	<2	<2	<2	<2	<2	<5	<2	<2	<2	<2	<2
Pyrene		ug/L	140 (S)	ID	140 (S)	140 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Other Target PAHs		ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCs (EPA Method 8260)																				
1,1,1-Trichloroethane		ug/L	200 (A)	89	1.3E+06 (S)	1.3E+06 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane		ug/L	35	78 (X)	77,000	4,700	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane		ug/L	5.0 (A)	330 (X)	1.10E+05	21,000	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane		ug/L	2,500	740	2.30E+06	2.40E+06	3.80E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene		ug/L	7.0 (A)	130	1,300	97,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		ug/L	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane		ug/L	5.0 (A)	360 (X)	59,000	19,000	2.50E+06	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane		ug/L	5.0 (A)	230 (X)	36,000	16,000	5.50E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		ug/L	72 (E)	45	61,000 (S)	61,000 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone		ug/L	38,000	2,200	2.4E+08 (S)	2.4E+08 (S)	ID	<30	<30	<25	<30	<30	<25	<25	<30	<25	<25	<25	<25	<25
2-Hexanone		ug/L	2,900	ID	8.70E+06	5.20E+06	NA	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone		ug/L	5,200	ID	2.0E+07 (S)	1.30E+07	ID	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Acetone		ug/L	2,100	1,700	1.0E+09 (D,S)	3.10E+07	1.50E+07	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene		ug/L	5.0 (A)	200 (X)	35,000	11,000	68,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane		ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform		ug/L	80 (A,W)	ID	3.10E+06	1.40E+05	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane		ug/L	29	35	9,000	70,000	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Butylbenzene		ug/L	230	ID	ID	5,900	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide		ug/L	2,300	ID	5.50E+05	1.2E+06 (S)	13,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Carbon tetrachloride		ug/L	5.0 (A)	45 (X)	2,400	4,600	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		ug/L	100 (A)	25	4.70E+05	86,000	1.60E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane		ug/L	1,700	1,100 (X)	5.7E+06 (S)	4.40E+05	1.10E+05	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroform		ug/L	80 (A, W)	350	1.80E+05	1.50E+05	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane		ug/L	1,100	ID	45,000	4.90E+05	36,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dibromochloromethane		ug/L	80 (A, W)	ID	1.10E+05	18,000	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene		ug/L	74 (E)	18	1.7E+05 (S)	1.7E+05 (S)	43,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride		ug/L	5.0 (A)	1,500 (X)	1.40E+06	2.20E+05	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Propylbenzene		ug/L	230	ID	ID	15,000	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene		ug/L	100 (A)	80 (X)	3.1E+05 (S)	9,700	1.40E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene		ug/L	5.0 (A)	60 (X)	1.70E+05	12,000	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene		ug/L	790 (E)	270	5.3E+05 (S)	5.3E+05 (S)	61,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene		ug/L	5.0 (A)	200 (X)	4,900	22,000	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride		ug/L	2.0 (A)	13 (X)	13,000	1,000	33,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene		ug/L	70 (A)	620	2.10E+05	2.00E+05	5.30E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene		ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m,p-Xylene		ug/L	none	none	none	none	none	<2	<2	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<2
o-Xylene		ug/L	none	none	none	none	none	<1	<1	<2	<1	<1	<1	<1	<2	<2	<2	<2	<2	<1
Xylenes, Total		ug/L	280 (E)	41	1.9E+05 (S)	1.9E+05 (S)	70,000	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
trans-1,2-Dichloroethene		ug/L	100 (A)	1,500 (X)	2.0E+05 (S)	2.20E+05	2.3E+05 (S)	<1	<1	<1	<1	<1	<1	<						

Notes: See Last Page

TABLE 2
FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER ANALYTICAL DATA

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels					MW-19	MW-19	MW-19	MW-19	MW-19	MW-20	MW-20	MW-20	MW-20	MW-20	MW-21	MW-21	MW-21	MW-21
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	Flammability and Explosivity Screening Level	Off-site - City of Pontiac Property West of the Site	Off-site - City of Pontiac Property West of the Site	Off-site - City of Pontiac Property West of the Site	Off-site - City of Pontiac Property West of the Site	Off-site - City of Pontiac Property West of the Site	Off-site - City of Pontiac Property West of the Site	Off-site - City of Pontiac Property West of the Site	Off-site - City of Pontiac Property West of the Site	Off-site - City of Pontiac Property West of the Site	Off-site - City of Pontiac Property West of the Site	East-Northeast of Building, Along Augusta Relief Drain	East-Northeast of Building, Along Augusta Relief Drain	East-Northeast of Building, Along Augusta Relief Drain	East-Northeast of Building, Along Augusta Relief Drain
Date Collected:						12/2/2010	1/30/2013	6/27/2013	9/19/2013	5/23/2014	12/2/2010	1/30/2013	6/27/2013	9/20/2013	5/22/2014	1/28/2013	6/25/2013	9/19/2013	5/21/2014	
Screened Interval (feet bgl):						3-13'	3-13'	3-13'	3-13'	3-13'	3-13'	3-13'	3-13'	3-13'	3-13'	5.5-10.5'	5.5-10.5'	5.5-10.5'	5.5-10.5'	
Analytical Parameter																				
TPH (EPA Method 418.1)	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Semivolatile Hydrocarbons (EPA Method 8015B)																				
Gasoline Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Diesel Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Fuel Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hydraulic Fluid	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Kerosene	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mineral Spirits	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Motor Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PAH (EPA Method 8310)																				
1-Methylnaphthalene	ug/L	none	none	none	none	none	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	25,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Acenaphthene	ug/L	3,800	38	4,200 (S)	4,200 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Acenaphthylene	ug/L	150	ID	3,900 (S)	3,900 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Anthracene	ug/L	43 (S)	ID	43 (S)	43 (S)	ID	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Benz(a)anthracene	ug/L	8.5	ID	NLV	9.4 (S,AA)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	1.0 (M,AA); 0.64	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	1.5 (S,AA)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	1.0 (M,AA); 0.26 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	1.0 (M,AA); 0.8 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chrysene	ug/L	1.6 (S)	ID	ID	1.6 (S,AA)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	2.0 (M,AA); 0.31	ID	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	210 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	2,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	2.0 (M, AA); 0.022 (S)	ID	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Naphthalene	ug/L	1,500	11	31,000 (S)	31,000 (S)	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	1,000 (S)	ID	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Pyrene	ug/L	140 (S)	ID	140 (S)	140 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Other Target PAHs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
VOCs (EPA Method 8260)																				
1,1,1-Trichloroethane	ug/L	200 (A)	89	1.3E+06 (S)	1.3E+06 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	4,700	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	21,000	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	2.40E+06	3.80E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethene	ug/L	7.0 (A)	130	1,300	11,000	97,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	19,000	2.50E+06	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	ug/L	5.0 (A)	230 (X)	36,000	16,000	5.50E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	61,000 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	2.4E+08 (S)	ID	<30	<25	<25	<25	<25	<30	<25	<25	<25	<25	<25	<25	<25	
2-Hexanone	ug/L	2,900	ID	8.70E+06	5.20E+06	NA	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	1.30E+07	ID	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	3.10E+07	1.50E+07	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	
Benzene	ug/L	5.0 (A)	200 (X)	35,000	11,000	68,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Bromochloromethane	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	1.40E+05	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Bromomethane	ug/L	29	35	9,000	70,000	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
n-Butylbenzene	ug/L	230	ID	ID	5,900	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Carbon disulfide	ug/L	2,300	ID	5.50E+05	1.2E+06 (S)	13,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	4,600	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chlorobenzene	ug/L	100 (A)	25	4.70E+05	86,000	1.60E+05	<1	<1	<1											

TABLE 2

FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER ANALYTICAL DATA

[illegible]

Notes: See Last Page

TABLE 2
FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER ANALYTICAL DATA

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels					MW-24D	MW-24D	MW-24D	MW-24D		MW-25	MW-25	MW-25	MW-25	MW-26	MW-26	MW-26	MW-26	
							Southern Portion of West Garage - Within Excavation Area	Southern Portion of West Garage - Within Excavation Area	Southern Portion of West Garage - Within Excavation Area	Southern Portion of West Garage - Within Excavation Area		Off-site - Right-of-Way of Mill Street	Off-site - Right-of-Way of Mill Street	Off-site - Right-of-Way of Mill Street	Off-site - Right-of-Way of Mill Street	Off-site - Right-of-Way of Mill Street	Off-site - Right-of-Way of Mill Street	Off-site - Right-of-Way of Mill Street	Off-site - Right-of-Way of Mill Street	Off-site - Right-of-Way of Mill Street
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	Flammability and Explosivity Screening Level														
Date Collected:						1/31/2013	6/28/2013	9/20/2013	5/22/2014		1/30/2013	6/24/2013	9/19/2013	5/22/2014	1/30/2013	6/24/2013	9/19/2013	5/23/2014		
Screened Interval (feet bgl):						15-20'	15-20'	15-20'	15-20'		4-14'	4-14'	4-14'	4-14'	3-13'	3-13'	3-13'	3-13'		
Analytical Parameter																				
TPH (EPA Method 418.1)	mg/L	none	none	none	none	none	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	
Semivolatile Hydrocarbons (EPA Method 8015B)																				
Gasoline Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	
Diesel Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	
Fuel Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	
Hydraulic Fluid	mg/L	none	none	none	none	none	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	
Kerosene	mg/L	none	none	none	none	none	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	
Mineral Spirits	mg/L	none	none	none	none	none	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	
Motor Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	
PAH (EPA Method 8310)																				
1-Methylnaphthalene	ug/L	none	none	none	none	none	12	6	10	10	12	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	25,000 (S)	ID	23	13	19	18	23	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acenaphthene	ug/L	3,800	38	4,200 (S)	4,200 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acenaphthylene	ug/L	150	ID	3,900 (S)	3,900 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Anthracene	ug/L	43 (S)	ID	43 (S)	43 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	9.4 (S,AA)	ID	<4	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	1.0 (M,AA); 0.64	ID	<4	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	1.5 (S,AA)	ID	<4	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	1.0 (M,AA); 0.26 (S)	ID	<4	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	1.0 (M,AA); 0.8 (S)	ID	<4	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chrysene	ug/L	1.6 (S)	ID	ID	1.6 (S,AA)	ID	<4	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	2.0 (M,AA); 0.31	ID	<4	<5	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	210 (S)	ID	<4	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	2,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	2.0 (M, AA); 0.022 (S)	ID	<4	<5	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Naphthalene	ug/L	1,500	11	31,000 (S)	31,000 (S)	NA	133	71	101	94	118	<5	<5	<5	<5	<5	<5	<5	<5	<5
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	1,000 (S)	ID	<4	<5	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Pyrene	ug/L	140 (S)	ID	140 (S)	140 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Other Target PAHs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCs (EPA Method 8260)																				
1,1,1-Trichloroethane	ug/L	200 (A)	89	1.3E+06 (S)	1.3E+06 (S)	ID	<200	<200	<200	<200	<200	<1	<1	<1	<1	<50	<50	<100	<50	<50
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	4,700	77,000	ID	<200	<200	<200	<200	<200	<1	<1	<1	<1	<50	<50	<100	<50	<50
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	21,000	NA	<200	<200	<200	<200	<200	<1	<1	<1	<1	<50	<50	<100	<50	<50
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	2.40E+06	3.80E+05	<200	<200	<200	<200	<200	<1	<1	<1	<1	<50	<50	<100	<50	<50
1,1-Dichloroethene	ug/L	7.0 (A)	130	1,300	11,000	97,000	<200	<200	<200	<200	<200	<1	<1	<1	<1	<50	<50	<100	<50	<50
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	700	800	600	900	1,000	<1	<1	<1	<1	<50	<50	<100	<50	<50
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	19,000	2.50E+06	<200	<200	<200	<200	<200	<1	<1	<1	<1	<50	<50	<100	<50	<50
1,2-Dichloropropane	ug/L	5.0 (A)	230 (X)	36,000	16,000	5.50E+05	<200	<200	<200	<200	<200	<1	<1	<1	<1	<50	<50	<100	<50	<50
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	61,000 (S)	ID	<200	<200	<200	300	300	<1	<1	<1	<1	<50	<50	<100	<50	<50
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	2.4E+08 (S)	ID	<5,000	<5,000	<500	<500	<500	<25	<25	<25	<25	<1,300	<1,300	<250	<1,300	<1,300
2-Hexanone	ug/L	2,900	ID	8.70E+06	5.20E+06	NA	<10,000	<10,000	<10,000	<10,000	<10,000	<50	<50	<50	<50	<2,500	<2,500	<500	<2,500	<2,500
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	1.30E+07	ID	<10,000	<10,000	<10,000	<10,000	<10,000	<50	<50	<50	<50	<2,500	<2,500	<500	<2,500	<2,500
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	3.10E+07	1.50E+07	<10,000	<10,000	<10,000	<10,000	<10,000	<50	<50	<50	<50	<2,500	<2,500	<500	<2,500	<2,500
Benzene	ug/L	5.0 (A)	200 (X)	35,000	11,000	68,000	20,900	21,300	19,700	26,200	28,200	<1	<1	<1	<1	3,360	3,020	2,600	2,450	2,530
Bromochloromethane	ug/L	none	none	none	none	none	<200	<200	<200	<200	<200	<1	<1	<1	<1	<50	<50	<100	<50	<50
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	1.40E+05	ID	<200	<200	<200	<200	<200	<1	<1	<1	<1	<50	<50	<100	<50	<50
Bromomethane	ug/L	29	35	9,000	70,000	ID	<1,000	<1,000	<1,000	<1,000	<1,000	<5	<5	<5	<5	<300	<300	<500	<300	<300
n-Butylbenzene	ug/L	230	ID	ID	5,900	ID	<200	<200	<200	<200	<200	<1	<1	<1	<1	<50	<50	<100	<50	<50
Carbon disulfide	ug/L	2,300	ID	5.50E+05	1.2E+06 (S)	13,000	<1,000	<1,000	<1,000	<1,000	<1,000	<5	<5							

TABLE 2
FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER ANALYTICAL DATA

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels					MW-27 Off-site - Right- of-Way of Mill Street	MW-27 Off-site - Right- of-Way of Mill Street	MW-27 Off-site - Right- of-Way of Mill Street	MW-27 Off-site - Right- of-Way of Mill Street	MW-28 North of Building, within Excavation Area	MW-28 North of Building, within Excavation Area	MW-28 North of Building, within Excavation Area	MW-28 North of Building, within Excavation Area	MW-29 Northeast of Building, Along Augusta Relief Drain	MW-29 Northeast of Building, Along Augusta Relief Drain	MW-29 Northeast of Building, Along Augusta Relief Drain	MW-29 Northeast of Building, Along Augusta Relief Drain	
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	Flammability and Explosivity Screening Level													
Date Collected:							1/30/2013	6/24/2013	9/19/2013	5/23/2014	1/28/2013	6/27/2013	9/19/2013	5/21/2014	1/29/2013	6/26/2013	9/17/2013	5/21/2014	
Screened Interval (feet bgl):							6.5-16.5'	6.5-16.5'	6.5-16.5'	6.5-16.5'	4-9'	4-9'	4-9'	4-9'	4.5-9.5'	4.5-9.5'	4.5-9.5'	4.5-9.5'	
Analytical Parameter																			
TPH (EPA Method 418.1)	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Semivolatile Hydrocarbons (EPA Method 8015B)																			
Gasoline Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Diesel Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Fuel Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hydraulic Fluid	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Kerosene	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mineral Spirits	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Motor Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PAH (EPA Method 8310)																			
1-Methylnaphthalene	ug/L	none	none	none	none	none	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	25,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Acenaphthene	ug/L	3,800	38	4,200 (S)	4,200 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Acenaphthylene	ug/L	150	ID	3,900 (S)	3,900 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Anthracene	ug/L	43 (S)	ID	43 (S)	43 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Benz(a)anthracene	ug/L	8.5	ID	NLV	9.4 (S,AA)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	1.0 (M,AA); 0.64	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	1.5 (S,AA)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	1.0 (M,AA); 0.26 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	1.0 (M,AA); 0.8 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chrysene	ug/L	1.6 (S)	ID	ID	1.6 (S,AA)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	2.0 (M,AA); 0.31	ID	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	210 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	2,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	2.0 (M, AA); 0.022 (S)	ID	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Naphthalene	ug/L	1,500	11	31,000 (S)	31,000 (S)	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	1,000 (S)	ID	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Pyrene	ug/L	140 (S)	ID	140 (S)	140 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Other Target PAHs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
VOCs (EPA Method 8260)																			
1,1,1-Trichloroethane	ug/L	200 (A)	89	1.3E+06 (S)	1.3E+06 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	4,700	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	21,000	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	2.40E+06	3.80E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethene	ug/L	7.0 (A)	130	1,300	11,000	97,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	19,000	2.50E+06	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	ug/L	5.0 (A)	230 (X)	36,000	16,000	5.50E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	61,000 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	2.4E+08 (S)	ID	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
2-Hexanone	ug/L	2,900	ID	8.70E+06	5.20E+06	NA	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	1.30E+07	ID	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	3.10E+07	1.50E+07	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	
Benzene	ug/L	5.0 (A)	200 (X)	35,000	11,000	68,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Bromochloromethane	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	1.40E+05	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Bromomethane	ug/L	29	35	9,000	70,000	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
n-Butylbenzene	ug/L	230	ID	ID	5,900	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Carbon disulfide	ug/L	2,300	ID	5.50E+05	1.2E+06 (S)	13,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	4,600	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chlorobenzene	ug/L	100 (A)	25	4.70E+05	86,000	1.60E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chloroethane	ug/L	1,700	1,100 (X)	5.7E+06 (S)	4.40E+05	1.10E+05	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Chloroform	ug/L	80 (A, W)	350	1.80E+05	1.50E+05	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chloromethane	ug/L	1,100	ID	45,000	4.90E+05	36,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	18,000	ID	<5	<5	<5	<5									

TABLE 2
FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER ANALYTICAL DATA

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels					MW-30 East of Building, Along Augusta Relief Drain	MW-30 East of Building, Along Augusta Relief Drain	MW-30 East of Building, Along Augusta Relief Drain	MW-30 East of Building, Along Augusta Relief Drain	MW-31 South of Building - Adjacent to Storm Sewer	MW-31 South of Building - Adjacent to Storm Sewer	MW-31 South of Building - Adjacent to Storm Sewer	MW-31 South of Building - Adjacent to Storm Sewer
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	Flammability and Explosivity Screening Level								
Date Collected:							1/31/2013	6/25/2013	9/20/2013	5/22/2014	2/1/2013	6/25/2013	9/20/2013	5/22/2014
Screened Interval (feet bgl):							3-13'	3-13'	3-13'	3-13'	3-8'	3-8'	3-8'	3-8'
Analytical Parameter														
TPH (EPA Method 418.1)	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatle Hydrocarbons (EPA Method 8015B)														
Gasoline Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA
Fuel Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA
Hydraulic Fluid	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA
Kerosene	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA
Mineral Spirits	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA
Motor Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA
PAH (EPA Method 8310)														
1-Methylnaphthalene	ug/L	none	none	none	none	none	<5	<5	<5	<5	<5	<5	<5	<5
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	25,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5
Acenaphthene	ug/L	3,800	38	4,200 (S)	4,200 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5
Acenaphthylene	ug/L	150	ID	3,900 (S)	3,900 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5
Anthracene	ug/L	43 (S)	ID	43 (S)	43 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	9.4 (S,AA)	ID	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	1.0 (M,AA); 0.64	ID	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	1.5 (S,AA)	ID	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	1.0 (M,AA); 0.26 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	1.0 (M,AA); 0.8 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1
Chrysene	ug/L	1.6 (S)	ID	ID	1.6 (S,AA)	ID	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	2.0 (M,AA); 0.31	ID	<2	<2	<2	<2	<2	<2	<2	<2
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	210 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	2,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	2.0 (M, AA); 0.022 (S)	ID	<2	<2	<2	<2	<2	<2	<2	<2
Naphthalene	ug/L	1,500	11	31,000 (S)	31,000 (S)	NA	<5	<5	<5	<5	<5	<5	<5	<5
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	1,000 (S)	ID	<2	<2	<2	<2	<2	<2	<2	<2
Pyrene	ug/L	140 (S)	ID	140 (S)	140 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5
Other Target PAHs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND
VOCs (EPA Method 8260)														
1,1,1-Trichloroethane	ug/L	200 (A)	89	1.3E+06 (S)	1.3E+06 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	4,700	ID	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	21,000	NA	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	2.40E+06	3.80E+05	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	7.0 (A)	130	1,300	11,000	97,000	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	19,000	2.50E+06	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	5.0 (A)	230 (X)	36,000	16,000	5.50E+05	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	61,000 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	2.4E+08 (S)	ID	<25	<25	<25	<25	<25	<25	<25	<25
2-Hexanone	ug/L	2,900	ID	8.70E+06	5.20E+06	NA	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	1.30E+07	ID	<50	<50	<50	<50	<50	<50	<50	<50
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	3.10E+07	1.50E+07	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	5.0 (A)	200 (X)	35,000	11,000	68,000	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	1.40E+05	ID	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	70,000	ID	<5	<5	<5	<5	<5	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	5,900	ID	<1	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide	ug/L	2,300	ID	5.50E+05	1.2E+06 (S)	13,000	<5	<5	<5	<5	<5	<5	<5	<5
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	4,600	ID	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	25	4.70E+05	86,000	1.60E+05	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	1,700	1,100 (X)	5.7E+06 (S)	4.40E+05	1.10E+05	<5	<5	<5	<5	<5	<5	<5	<5
Chloroform	ug/L	80 (A, W)	350	1.80E+05	1.50E+05	ID	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	1,100	ID	45,000	4.90E+05	36,000	<5	<5	<5	<5	<5	<5	<5	<5
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	18,000	ID	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	1.7E+05 (S)	43,000	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	5.0 (A)	1,500 (X)	1.40E+06	2.20E+05	ID	<5	<5	<5	<5	<5	<5	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	15,000	ID	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	ug/L	100 (A)	80 (X)	3.1E+05 (S)	9,700	1.40E+05	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	12,000	ID	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	ug/L	790 (E)	270	5.3E+05 (S)	5.3E+05 (S)	61,000	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	22,000	ID	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	ug/L	2.0 (A)	13 (X)	13,000	1,000	33,000	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.10E+05	2.00E+05	5.30E+05	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1
m,p-Xylene	ug/L	none	none	none	none	none	<1	<1	<1	<2	<1	<1	<1	<2
o-Xylene	ug/L	none	none	none	none	none	<2	<2	<2	<1	<2	<2	<2	<1
Xylenes, Total	ug/L	280 (E)	41	1.9E+05 (S)	1.9E+05 (S)	70,000	<3	<3	<3	<3	<3	<3	<3	<3
trans-1,2-Dichloroethene	ug/L	100 (A)	1,500 (X)	2.0E+05 (S)	2.20E+05	2.3E+05 (S)	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethene (total)	ug/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1
Other Target VOCs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND
MTBE (EPA Method 8021B)														
MTBE	ug/L	40 (E)	7,100 (X)	4.7E+07 (S)	6.10E+05	ID	<5	<5	<5	<5	<5	<5	<5	<5
Dissolved Metals (Method 6020)														
Lead	mg/L	0.004 (L)	(G,X)	NLV	ID	ID	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003

Notes: See Last Page

**EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN**

NOTES FOR THE GROUNDWATER AND STORM SEWER SAMPLE ANALYTICAL RESULTS

Notes:

Exceedances: Cleanup criteria exceedances are bolded.

Monitoring Well was properly abandoned prior to the June 2012 excavation activities

NS *: Not sampled. Borehole was dry (tight clay) with no indication of groundwater.

NS **: Not sampled. Groundwater observed in borehole after two-day recovery period, but did not recover enough volume to obtain a sample.

NS***: Not Sampled due to sheen observed in borehole.

NS****: Not sampled. Groundwater did not recover enough volume to obtain a sample within limited time constraints.

NA: Not analyzed.

ND / <: Not detected / < detection limit

Cleanup Criteria: Part 201 (Environmental Remediation) and Part 213 (Leaking Underground

Storage Tanks) of the Michigan Natural Resources and Environmental Protection Act (NREPA),

1994 PA 451 (Revised December 30, 2013). Referenced are Non-Residential Cleanup Criteria and Screening Levels.

No TPH criteria exist; however, additional PAH constituents tested if detected TPH exceeded 1 mg/L.

(A) Criterion is the State of Michigan Drinking Water Standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.

(D) Calculated criterion exceeds 100%, hence it is reduced to 100% or 1.0E+9 parts per billion (ppb).

(E) Criterion is the aesthetic drinking water value, as required by section 20120a(5) of the act.

(L) Criteria for lead are derived using a biologically based model, as allowed for under section 20120a(10) of the act, and are not calculated using the algorithms and assumptions specified in pathway-specific rules. The generic residential drinking water criterion of 4 µg/L is linked to the generic soil direct contact criterion of 400 mg/kg. A higher concentrations in the drinking water, up to the state action level or 15 µg/L, may be allowed as a site-specific remedy, and still allow for drinking water use, under section 20120a(2) of the act if soil concentration are appropriately lower than 400 mg/kg. If a site specific criterion is approved based on this subdivision, a notice shall be filed on the deed for all property where the groundwater concentrations will exceed 4 µg/L to provide notice of the potential for unacceptable risk if soil or groundwater concentrations increase.

(M) Calculated criterion is below the analytical Target Detection Limit (TDL), therefore, the criterion defaults to the TDL.

(S) Criterion defaults to the hazardous substance-specific water solubility limit.

(AA)

Comparison to these criteria may take into account an evaluation of whether the hazardous substances are adsorbed to particulates rather than dissolved in water and whether filtered groundwater samples were used to evaluate groundwater. means insufficient data to develop criterion

"ID"

(G)

Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. Where water hardness exceeds 400 mg CaCO₃/L, use 400 mg CaCO₃/L for the FCV calculation. The FCV formula provides values in units of ug/L or ppb. The generic GSI criterion is the lesser of the calculated FCV, the wildlife value (WV), and the surface water human non-drinking water value (HNDV).

(X)

The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the table in this footnote, except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. see formulas in footnote (G). Soil protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure.

(Y)

Elevated Reporting Limit due to high target concentration

(W)

Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with the Michigan drinking water standard of 80 ug/L. Concentrations of trihalomethanes in soil shall be added together to determine compliance with the drinking water protection criterion of 1,600 ug/kg.

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PONTIAC, MICHIGAN**

STORM SEWER SAMPLE ANALYTICAL DATA

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels					SS-1	SS-2	SS-3	SS-4	SS-5
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	Flammability and Explosivity Screening Level					
Date Collected:							5/21/2014	5/21/2014	5/23/2014	5/23/2014	5/23/2014
Analytical Parameter											
PAH (EPA Method 8310)											
1-Methylnaphthalene	ug/L	none	none	none	none	none	<5	<5	<5	<5	<5
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	25,000 (S)	ID	<5	<5	<5	<5	<5
Acenaphthene	ug/L	3,800	38	4,200 (S)	4,200 (S)	ID	<5	<5	<5	<5	<5
Acenaphthylene	ug/L	150	ID	3,900 (S)	3,900 (S)	ID	<5	<5	<5	<5	<5
Anthracene	ug/L	43 (S)	ID	43 (S)	43 (S)	ID	<5	<5	<5	<5	<5
Benzo(a)anthracene	ug/L	8.5	ID	NLV	9.4 (S,AA)	ID	<1	<1	<1	<1	<1
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	1.0 (M,AA); 0.64	ID	<1	<1	<1	<1	<1
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	1.5 (S,AA)	ID	<1	<1	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	1.0 (M,AA); 0.26 (S)	ID	<1	<1	<1	<1	<1
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	1.0 (M,AA); 0.8 (S)	ID	<1	<1	<1	<1	<1
Chrysene	ug/L	1.6 (S)	ID	ID	1.6 (S,AA)	ID	<1	<1	<1	<1	<1
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	2.0 (M,AA); 0.31	ID	<2	<2	<2	<2	<2
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	210 (S)	ID	<1	<1	<1	<1	<1
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	2,000 (S)	ID	<5	<5	<5	<5	<5
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	2.0 (M, AA); 0.022 (S)	ID	<2	<2	<2	<2	<2
Naphthalene	ug/L	1,500	11	31,000 (S)	31,000 (S)	NA	<5	<5	<5	<5	<5
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	1,000 (S)	ID	<2	<2	<2	<2	<2
Pyrene	ug/L	140 (S)	ID	140 (S)	140 (S)	ID	<5	<5	<5	<5	<5
Other Target PAHs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND
VOCs (EPA Method 8260)											
1,1,1-Trichloroethane	ug/L	200 (A)	89	1.3E+06 (S)	1.3E+06 (S)	ID	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	4,700	ID	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	21,000	NA	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	2.40E+06	3.80E+05	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	7.0 (A)	130	1,300	11,000	97,000	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	19,000	2.50E+06	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	5.0 (A)	230 (X)	36,000	16,000	5.50E+05	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	61,000 (S)	ID	<1	<1	<1	<1	<1
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	2.4E+08 (S)	ID	<25	<25	<25	<25	<25
2-Hexanone	ug/L	2,900	ID	8.70E+06	5.20E+06	NA	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	1.30E+07	ID	<50	<50	<50	<50	<50
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	3.10E+07	1.50E+07	<50	<50	<50	<50	<50
Benzene	ug/L	5.0 (A)	200 (X)	35,000	11,000	68,000	<1	<1	<1	<1	<1
Bromochloromethane	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	1.40E+05	ID	<1	<1	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	70,000	ID	<5	<5	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	5,900	ID	<1	<1	<1	<1	<1
Carbon disulfide	ug/L	2,300	ID	5.50E+05	1.2E+06 (S)	13,000	<5	<5	<5	<5	<5
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	4,600	ID	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	25	4.70E+05	86,000	1.60E+05	<1	<1	<1	<1	<1
Chloroethane	ug/L	1,700	1,100 (X)	5.7E+06 (S)	4.40E+05	1.10E+05	<5	<5	<5	<5	<5
Chloroform	ug/L	80 (A, W)	350	1.80E+05	1.50E+05	ID	<1	<1	<1	<1	<1
Chloromethane	ug/L	1,100	ID	45,000	4.90E+05	36,000	<5	<5	<5	<5	<5
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	18,000	ID	<5	<5	<5	<5	<5
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	1.7E+05 (S)	43,000	<1	<1	<1	<1	<1
Methylene chloride	ug/L	5.0 (A)	1,500 (X)	1.40E+06	2.20E+05	ID	<5	<5	<5	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	15,000	ID	<1	<1	<1	<1	<1
Styrene	ug/L	100 (A)	80 (X)	3.1E+05 (S)	9,700	1.40E+05	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	12,000	ID	<1	<1	<1	<1	<1
Toluene	ug/L	790 (E)	270	5.3E+05 (S)	5.3E+05 (S)	61,000	5	2	<1	<1	<1
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	22,000	ID	<1	<1	<1	<1	2
Vinyl chloride	ug/L	2.0 (A)	13 (X)	13,000	1,000	33,000	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.10E+05	2.00E+05	5.30E+05	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1
m,p-Xylene	ug/L	none	none	none	none	none	<2	<2	<2	<2	<2
o-Xylene	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1
Xylenes, Total	ug/L	280 (E)	41	1.9E+05 (S)	1.9E+05 (S)	70,000	<3	<3	<3	<3	<3
trans-1,2-Dichloroethene	ug/L	100 (A)	1,500 (X)	2.0E+05 (S)	2.20E+05	2.3E+05 (S)	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1
1,2-Dichloroethene (total)	ug/L	none	none	none	none	none	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1
Other Target VOCs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND
MTBE (EPA Method 8021B)	ug/L	40 (E)	7,100 (X)	4.7E+07 (S)	6.10E+05	ID	<0.005	<0.005	<0.005	<0.005	<0.005

Notes: See Last Page

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STORM SEWER SAMPLE ANALYTICAL DATA

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Monitoring Well was properly abandoned prior to the June 2012 excavation activities

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No TPH criteria exist; however, additional PAH constituents tested if detected TPH exceeded 1 mg/L.

Criterion is the State of Michigan Drinking Water Standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.

(A) Calculated criterion exceeds 100%, hence it is reduced to 100% or 1.0E+9 parts per billion (ppb).

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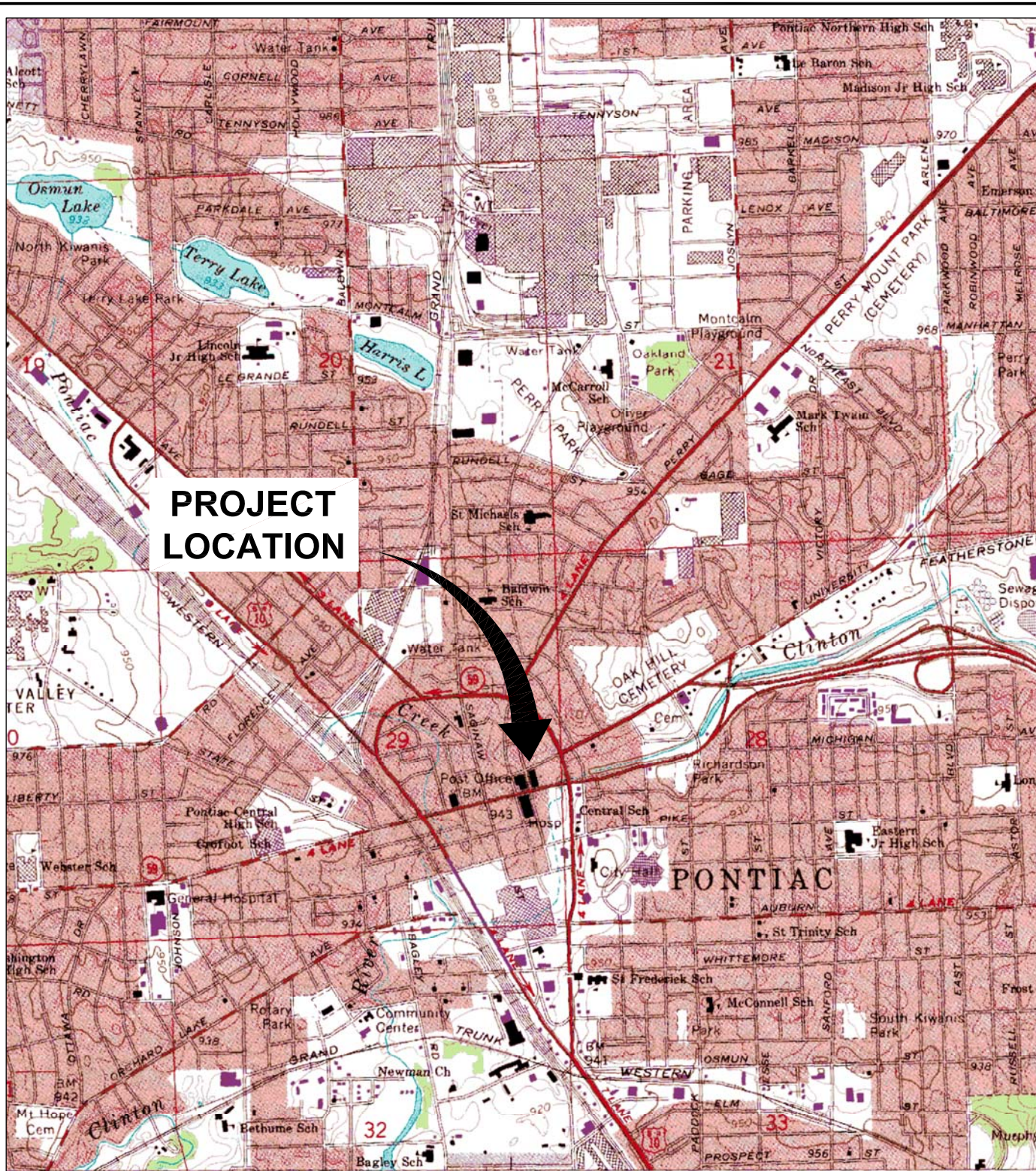
(X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the table in this footnote, except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. see formulas in footnote (G). Soil protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure.

(Y) Elevated Reporting Limit due to high target concentration

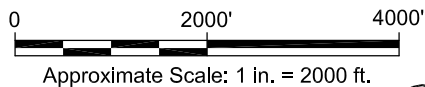
(W) Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with the Michigan drinking water standard of 80 ug/L. Concentrations of trihalomethanes in soil shall be added together to determine compliance with the drinking water protection criterion of 1,600 ug/kg.

Figures

CITY:(Read) DIV:(GROUP:(Read) DB:(Read) LD:(Opt) PM:(Read) TML:(Opt) LYR:(OPTIONAL-OFF=REF)
 G:\ENV\CAD\STRAC\USEVAC\T18006448620\100003D\DWG\448620\1.dwg LAYOUT: 1 SAVED: 8/27/2012 12:56 PM ACADVER: 18.1S (LMS TECH) PAGES: 10 PLOTSETUP: --- PLOTSTYLETABLE: PLT\FULL.CTB PLOTTED: 8/27/2012 12:57 PM BY: HOWES, DAVID



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., PONTIAC NORTH, MICH, 1968, PHOTOREVISED 1983.



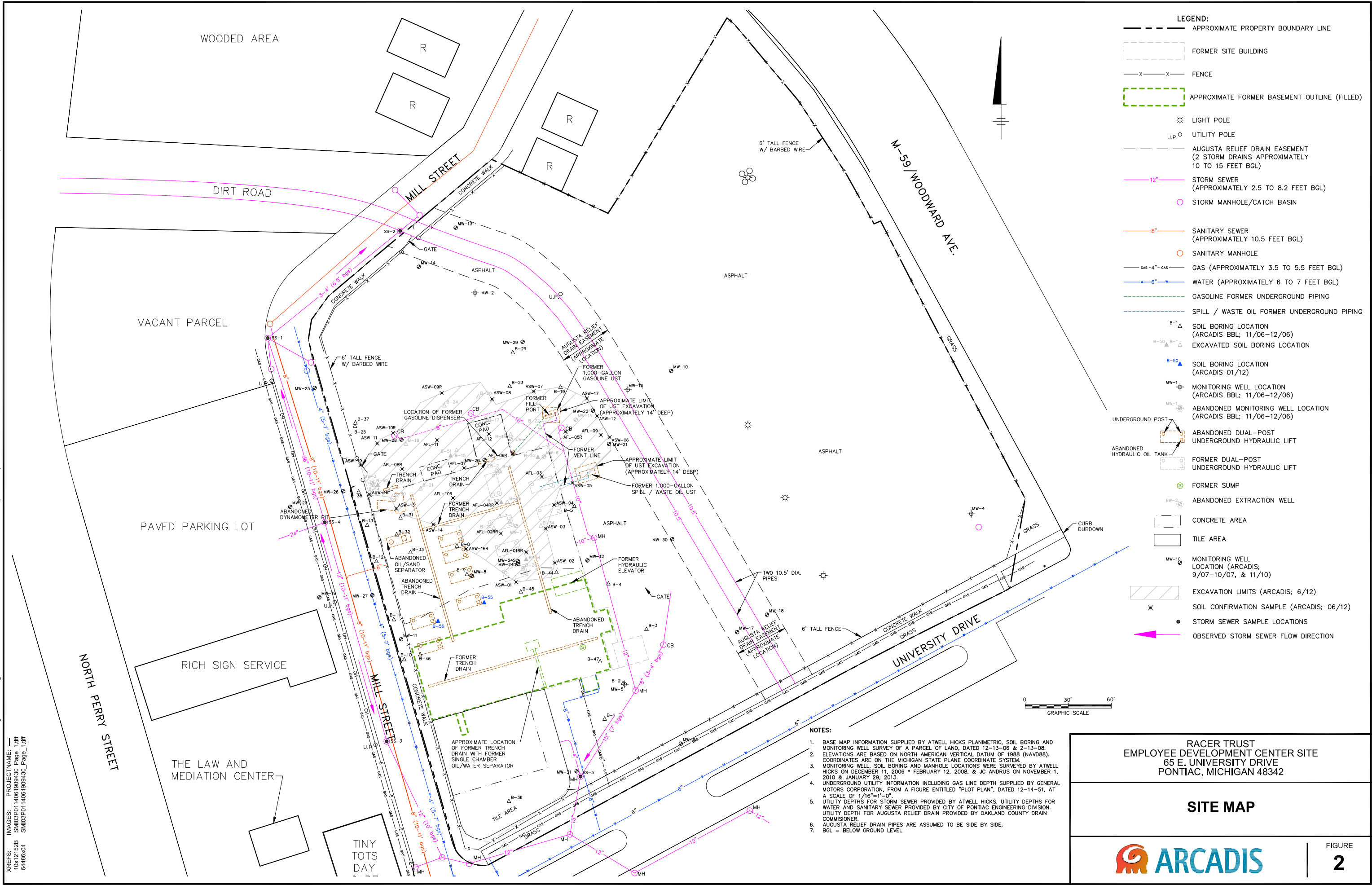
RACER TRUST
 EMPLOYEE DEVELOPMENT CENTER SITE
 65 E. UNIVERSITY DRIVE
 PONTIAC, MICHIGAN 48342

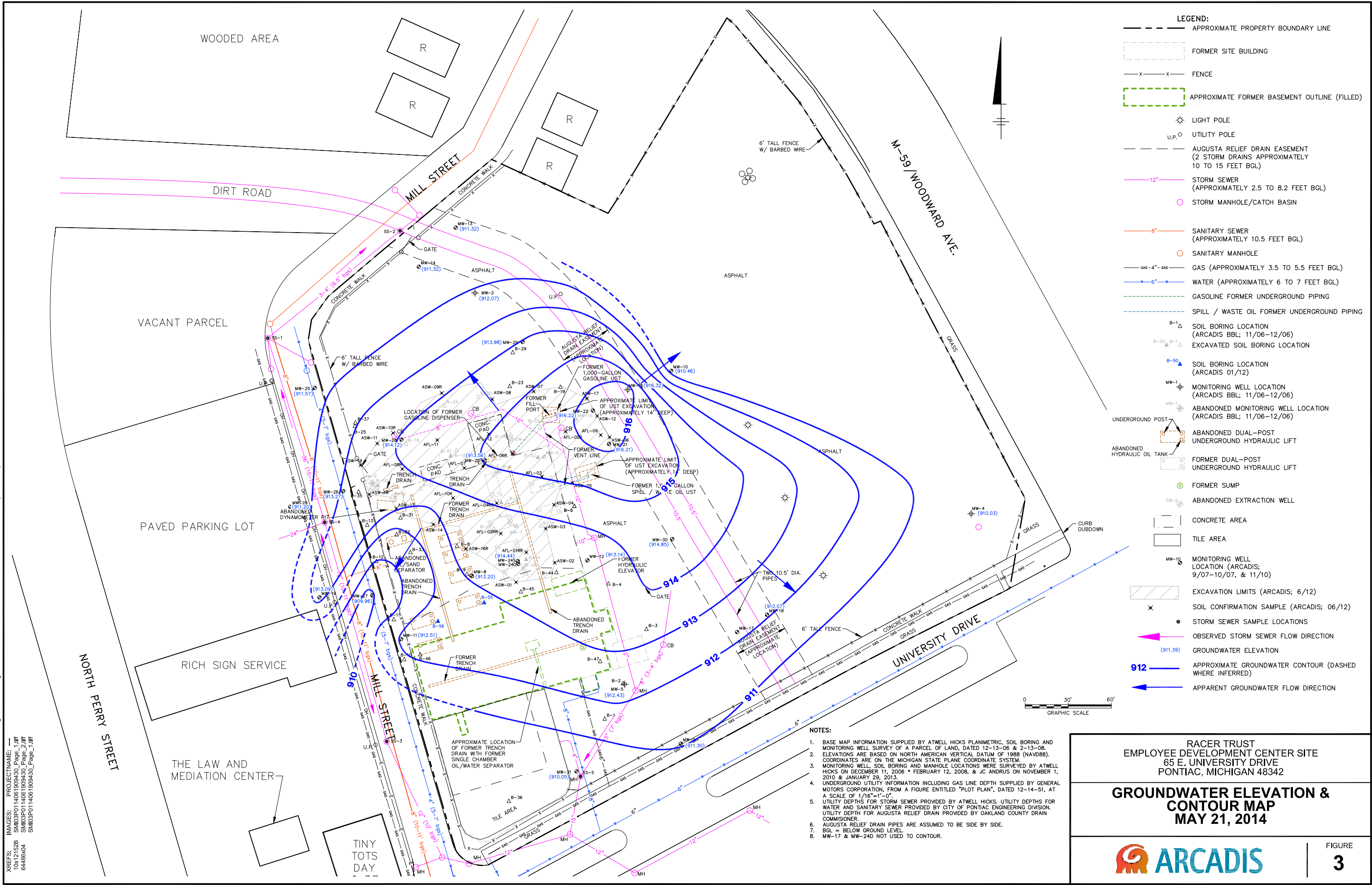
SITE LOCATION MAP



FIGURE

1

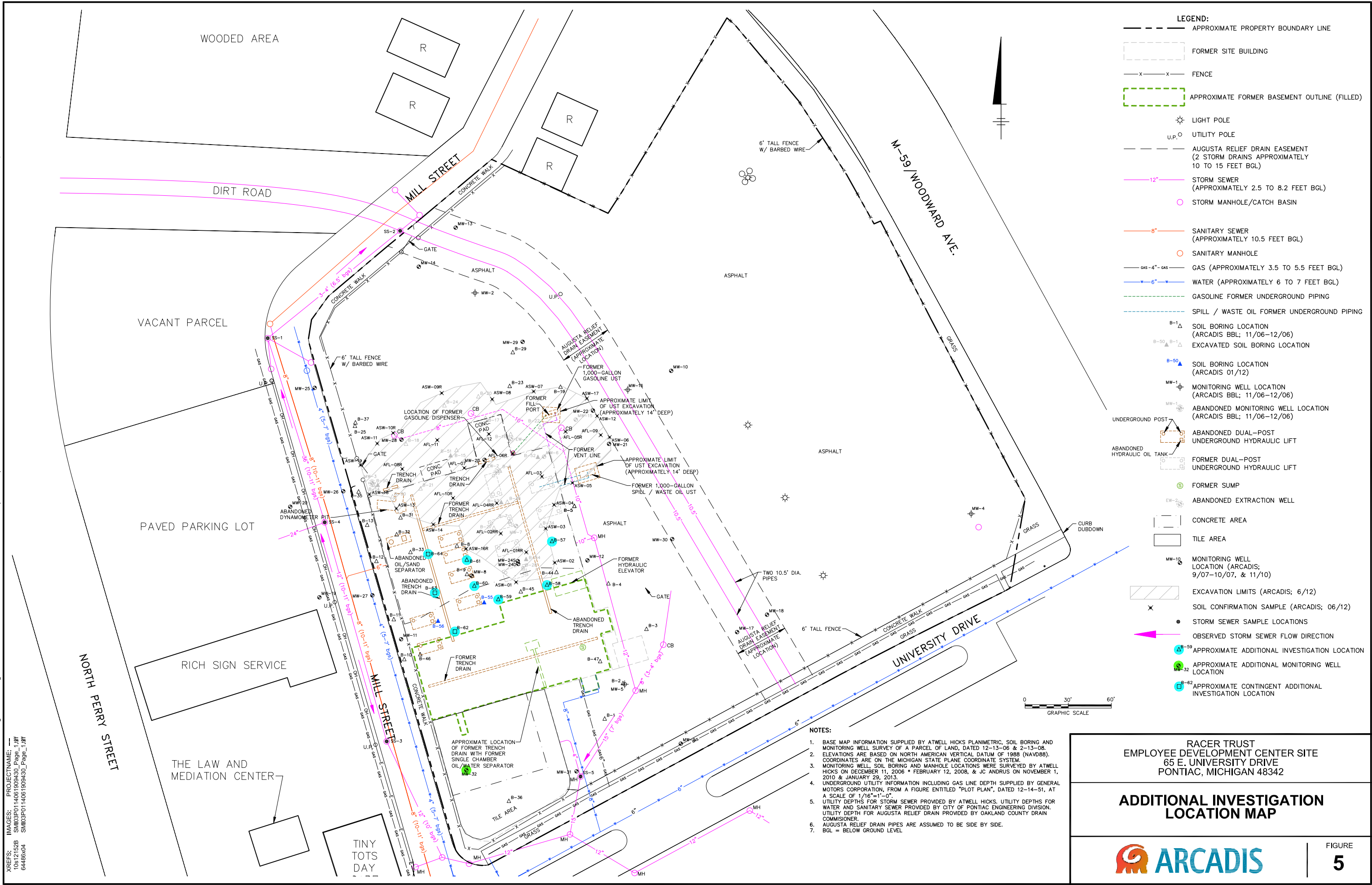




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GROUNDWATER ELEVATION & CONTOUR MAP MAY 21, 2014





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PONTIAC, MICHIGAN 48342

ADDITIONAL INVESTIGATION LOCATION MAP





Attachment 1

Laboratory Analytical Reports



Analytical Laboratory Report

Report ID: S61192.01(01)
Generated on 06/02/2014

Report to

Attention: Allyn Begnoche
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-225-1971 FAX: 810-229-8837
Email: allyn.begnoche@arcadis-us.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:

Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S61192.01-S61192.25
Project: B0064486.2014.00003 / RACER Pontiac EDC, MI
Collected Date: 05/21/2014 - 05/22/2014
Submitted Date/Time: 05/22/2014 15:30
Sampled by: A O'Neil/C Sanders
P.O. #: B0064486.2014.00003

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), NCDENR (#680), NC Drinking Water (#26702)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (25 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S61192.01	SS-1 (05212014)	Groundwater	05/21/2014 10:35
S61192.02	SS-2 (05212014)	Groundwater	05/21/2014 11:05
S61192.03	MW-2 (05212014)	Groundwater	05/21/2014 12:10
S61192.04	MW-14 (05212014)	Groundwater	05/21/2014 13:05
S61192.05	MW-13 (05212014)	Groundwater	05/21/2014 13:50
S61192.06	MW-29 (05212014)	Groundwater	05/21/2014 14:40
S61192.07	MW-28 (05212014)	Groundwater	05/21/2014 15:30
S61192.08	MW-10 (05212014)	Groundwater	05/21/2014 12:25
S61192.09	MW-16 (05212014)	Groundwater	05/21/2014 13:45
S61192.10	MW-21 (05212014)	Groundwater	05/21/2014 14:50
S61192.11	MW-22 (05212014)	Groundwater	05/21/2014 15:50
S61192.12	MW-18 (05222014)	Groundwater	05/22/2014 09:30
S61192.13	MW-17 (05222014)	Groundwater	05/22/2014 10:40
S61192.14	MW-5 (05222014)	Groundwater	05/22/2014 11:45
S61192.15	MW-31 (05222014)	Groundwater	05/22/2014 12:45
S61192.16	MW-4 (05222014)	Groundwater	05/22/2014 09:25
S61192.17	MW-4 (05222014) MS	Groundwater	05/22/2014 09:25
S61192.18	MW-4 (05222014) MSD	Groundwater	05/22/2014 09:25
S61192.19	MW-30 (05222014)	Groundwater	05/22/2014 10:35
S61192.20	MW-12 (05222014)	Groundwater	05/22/2014 11:35
S61192.21	MW-24D (05222014)	Groundwater	05/22/2014 12:40
S61192.22	DUP-01 (05222014)	Groundwater	05/22/2014 00:01
S61192.23	DUP-02 (05222014)	Groundwater	05/22/2014 00:01
S61192.24	Trip Blank	Groundwater	05/21/2014 00:01
S61192.25	MW-24S (05222014)	Groundwater	05/22/2014 13:40



Analytical Laboratory Report

Lab Sample ID: S61192.01
Sample Tag: SS-1 (05212014)
Collected Date/Time: 05/21/2014 10:35
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	05/29/14 10:42	LBR		
PNA Extraction	Completed			SW3510C	05/27/14 12:16	EMR		

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/27/14 15:29	PL	83-32-9
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/27/14 15:29	PL	208-96-8
Anthracene	Not detected	ug/L	5	SW8270C	05/27/14 15:29	PL	120-12-7
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/27/14 15:29	PL	56-55-3
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/27/14 15:29	PL	50-32-8
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 15:29	PL	205-99-2
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 15:29	PL	207-08-9
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/27/14 15:29	PL	191-24-2
Chrysene	Not detected	ug/L	1	SW8270C	05/27/14 15:29	PL	218-01-9
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/27/14 15:29	PL	53-70-3
Fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 15:29	PL	206-44-0
Fluorene	Not detected	ug/L	5	SW8270C	05/27/14 15:29	PL	86-73-7
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/27/14 15:29	PL	193-39-5
Naphthalene	Not detected	ug/L	5	SW8270C	05/27/14 15:29	PL	91-20-3
Phenanthrene	Not detected	ug/L	2	SW8270C	05/27/14 15:29	PL	85-01-8
Pyrene	Not detected	ug/L	5	SW8270C	05/27/14 15:29	PL	129-00-0
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/27/14 15:29	PL	91-57-6
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/27/14 15:29	PL	90-12-0

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/28/14 17:59	WAT	60-29-7
Acetone	Not detected	ug/L	50	SW8260B	05/28/14 17:59	WAT	67-64-1
Methyl iodide	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	74-88-4
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/28/14 17:59	WAT	75-15-0
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/28/14 17:59	WAT	1634-04-4
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/28/14 17:59	WAT	107-13-1
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/28/14 17:59	WAT	78-93-3
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/28/14 17:59	WAT	75-71-8
Chloromethane	Not detected	ug/L	5	SW8260B	05/28/14 17:59	WAT	74-87-3
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	75-01-4
Bromomethane	Not detected	ug/L	5	SW8260B	05/28/14 17:59	WAT	74-83-9
Chloroethane	Not detected	ug/L	5	SW8260B	05/28/14 17:59	WAT	75-00-3
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	75-69-4
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	75-35-4
Methylene chloride	Not detected	ug/L	5	SW8260B	05/28/14 17:59	WAT	75-09-2
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	156-60-5



Analytical Laboratory Report

Lab Sample ID: S61192.01 (continued)

Sample Tag: SS-1 (05212014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/28/14 17:59	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/28/14 17:59	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/28/14 17:59	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/28/14 17:59	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	10061-01-5	
Toluene	5	ug/L	1	SW8260B	05/28/14 17:59	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/28/14 17:59	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/28/14 17:59	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/28/14 17:59	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	75-25-2	
1,1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/28/14 17:59	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 17:59	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/28/14 17:59	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/28/14 17:59	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/28/14 17:59	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/28/14 17:59	WAT	87-61-6	



Analytical Laboratory Report

Lab Sample ID: S61192.01 (continued)

Sample Tag: SS-1 (05212014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Naphthalene	Not detected	ug/L	5	SW8260B	05/28/14 17:59	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/28/14 17:59	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61192.02
Sample Tag: SS-2 (05212014)
Collected Date/Time: 05/21/2014 11:05
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	05/29/14 10:42	LBR		
PNA Extraction	Completed			SW3510C	05/27/14 12:16	EMR		

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/27/14 15:50	PL	83-32-9
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/27/14 15:50	PL	208-96-8
Anthracene	Not detected	ug/L	5	SW8270C	05/27/14 15:50	PL	120-12-7
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/27/14 15:50	PL	56-55-3
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/27/14 15:50	PL	50-32-8
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 15:50	PL	205-99-2
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 15:50	PL	207-08-9
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/27/14 15:50	PL	191-24-2
Chrysene	Not detected	ug/L	1	SW8270C	05/27/14 15:50	PL	218-01-9
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/27/14 15:50	PL	53-70-3
Fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 15:50	PL	206-44-0
Fluorene	Not detected	ug/L	5	SW8270C	05/27/14 15:50	PL	86-73-7
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/27/14 15:50	PL	193-39-5
Naphthalene	Not detected	ug/L	5	SW8270C	05/27/14 15:50	PL	91-20-3
Phenanthrene	Not detected	ug/L	2	SW8270C	05/27/14 15:50	PL	85-01-8
Pyrene	Not detected	ug/L	5	SW8270C	05/27/14 15:50	PL	129-00-0
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/27/14 15:50	PL	91-57-6
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/27/14 15:50	PL	90-12-0

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/28/14 18:21	WAT	60-29-7
Acetone	Not detected	ug/L	50	SW8260B	05/28/14 18:21	WAT	67-64-1
Methyl iodide	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	74-88-4
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/28/14 18:21	WAT	75-15-0
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/28/14 18:21	WAT	1634-04-4
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/28/14 18:21	WAT	107-13-1
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/28/14 18:21	WAT	78-93-3
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/28/14 18:21	WAT	75-71-8
Chloromethane	Not detected	ug/L	5	SW8260B	05/28/14 18:21	WAT	74-87-3
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	75-01-4
Bromomethane	Not detected	ug/L	5	SW8260B	05/28/14 18:21	WAT	74-83-9
Chloroethane	Not detected	ug/L	5	SW8260B	05/28/14 18:21	WAT	75-00-3
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	75-69-4
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	75-35-4
Methylene chloride	Not detected	ug/L	5	SW8260B	05/28/14 18:21	WAT	75-09-2
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	156-60-5



Analytical Laboratory Report

Lab Sample ID: S61192.02 (continued)

Sample Tag: SS-2 (05212014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/28/14 18:21	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/28/14 18:21	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/28/14 18:21	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/28/14 18:21	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	10061-01-5	
Toluene	2	ug/L	1	SW8260B	05/28/14 18:21	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/28/14 18:21	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/28/14 18:21	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/28/14 18:21	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	75-25-2	
1,1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/28/14 18:21	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:21	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/28/14 18:21	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/28/14 18:21	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/28/14 18:21	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/28/14 18:21	WAT	87-61-6	



Analytical Laboratory Report

Lab Sample ID: S61192.02 (continued)

Sample Tag: SS-2 (05212014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Naphthalene	Not detected	ug/L	5	SW8260B	05/28/14 18:21	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/28/14 18:21	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61192.03
Sample Tag: MW-2 (05212014)
Collected Date/Time: 05/21/2014 12:10
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/29/14 10:42	LBR		
PNA Extraction	Completed			SW3510C	05/27/14 12:16	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:00	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/27/14 16:10	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/27/14 16:10	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/27/14 16:10	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/27/14 16:10	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/27/14 16:10	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 16:10	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 16:10	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/27/14 16:10	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	05/27/14 16:10	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/27/14 16:10	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 16:10	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	05/27/14 16:10	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/27/14 16:10	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	05/27/14 16:10	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/27/14 16:10	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/27/14 16:10	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/27/14 16:10	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/27/14 16:10	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/28/14 18:43	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	05/28/14 18:43	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/28/14 18:43	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/28/14 18:43	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/28/14 18:43	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/28/14 18:43	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/28/14 18:43	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	05/28/14 18:43	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	05/28/14 18:43	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61192.03 (continued)

Sample Tag: MW-2 (05212014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	05/28/14 18:43	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/28/14 18:43	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/28/14 18:43	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/28/14 18:43	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/28/14 18:43	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/28/14 18:43	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/28/14 18:43	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/28/14 18:43	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/28/14 18:43	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/28/14 18:43	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61192.03 (continued)

Sample Tag: MW-2 (05212014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/28/14 18:43	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/28/14 18:43	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/28/14 18:43	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/28/14 18:43	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/28/14 18:43	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	05/28/14 18:43	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/28/14 18:43	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61192.04
Sample Tag: MW-14 (05212014)
Collected Date/Time: 05/21/2014 13:05
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/30/14 10:14	LBR		
PNA Extraction	Completed			SW3510C	05/27/14 12:16	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:01	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/27/14 16:31	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/27/14 16:31	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/27/14 16:31	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/27/14 16:31	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/27/14 16:31	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 16:31	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 16:31	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/27/14 16:31	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	05/27/14 16:31	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/27/14 16:31	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 16:31	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	05/27/14 16:31	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/27/14 16:31	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	05/27/14 16:31	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/27/14 16:31	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/27/14 16:31	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/27/14 16:31	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/27/14 16:31	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/29/14 15:47	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	05/29/14 15:47	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/29/14 15:47	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/29/14 15:47	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/29/14 15:47	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/29/14 15:47	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/29/14 15:47	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	05/29/14 15:47	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	05/29/14 15:47	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61192.04 (continued)

Sample Tag: MW-14 (05212014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	05/29/14 15:47	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/29/14 15:47	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/29/14 15:47	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/29/14 15:47	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/29/14 15:47	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/29/14 15:47	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/29/14 15:47	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/29/14 15:47	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/29/14 15:47	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/29/14 15:47	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61192.04 (continued)

Sample Tag: MW-14 (05212014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:47	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/29/14 15:47	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/29/14 15:47	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 15:47	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 15:47	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	05/29/14 15:47	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/29/14 15:47	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61192.05
Sample Tag: MW-13 (05212014)
Collected Date/Time: 05/21/2014 13:50
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/30/14 10:14	LBR		
PNA Extraction	Completed			SW3510C	05/27/14 12:16	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:02	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/27/14 16:52	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/27/14 16:52	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/27/14 16:52	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/27/14 16:52	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/27/14 16:52	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 16:52	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 16:52	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/27/14 16:52	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	05/27/14 16:52	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/27/14 16:52	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 16:52	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	05/27/14 16:52	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/27/14 16:52	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	05/27/14 16:52	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/27/14 16:52	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/27/14 16:52	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/27/14 16:52	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/27/14 16:52	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/29/14 16:09	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	05/29/14 16:09	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/29/14 16:09	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/29/14 16:09	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/29/14 16:09	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/29/14 16:09	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/29/14 16:09	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	05/29/14 16:09	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	05/29/14 16:09	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61192.05 (continued)

Sample Tag: MW-13 (05212014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	05/29/14 16:09	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/29/14 16:09	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/29/14 16:09	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/29/14 16:09	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/29/14 16:09	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/29/14 16:09	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/29/14 16:09	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/29/14 16:09	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/29/14 16:09	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/29/14 16:09	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61192.05 (continued)

Sample Tag: MW-13 (05212014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:09	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/29/14 16:09	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/29/14 16:09	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 16:09	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 16:09	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	05/29/14 16:09	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/29/14 16:09	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61192.06
Sample Tag: MW-29 (05212014)
Collected Date/Time: 05/21/2014 14:40
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/30/14 10:14	LBR		
PNA Extraction	Completed			SW3510C	05/27/14 12:16	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:03	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/27/14 17:13	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/27/14 17:13	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/27/14 17:13	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/27/14 17:13	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/27/14 17:13	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 17:13	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 17:13	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/27/14 17:13	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	05/27/14 17:13	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/27/14 17:13	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 17:13	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	05/27/14 17:13	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/27/14 17:13	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	05/27/14 17:13	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/27/14 17:13	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/27/14 17:13	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/27/14 17:13	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/27/14 17:13	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/29/14 16:31	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	05/29/14 16:31	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/29/14 16:31	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/29/14 16:31	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/29/14 16:31	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/29/14 16:31	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/29/14 16:31	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	05/29/14 16:31	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	05/29/14 16:31	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61192.06 (continued)

Sample Tag: MW-29 (05212014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	05/29/14 16:31	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/29/14 16:31	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/29/14 16:31	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/29/14 16:31	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/29/14 16:31	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/29/14 16:31	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/29/14 16:31	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/29/14 16:31	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/29/14 16:31	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/29/14 16:31	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61192.06 (continued)

Sample Tag: MW-29 (05212014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:31	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/29/14 16:31	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/29/14 16:31	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 16:31	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 16:31	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	05/29/14 16:31	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/29/14 16:31	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61192.07
Sample Tag: MW-28 (05212014)
Collected Date/Time: 05/21/2014 15:30
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/30/14 10:14	LBR		
PNA Extraction	Completed			SW3510C	05/27/14 12:16	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:04	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/27/14 17:34	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/27/14 17:34	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/27/14 17:34	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/27/14 17:34	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/27/14 17:34	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 17:34	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 17:34	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/27/14 17:34	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	05/27/14 17:34	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/27/14 17:34	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 17:34	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	05/27/14 17:34	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/27/14 17:34	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	05/27/14 17:34	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/27/14 17:34	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/27/14 17:34	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/27/14 17:34	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/27/14 17:34	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/29/14 16:53	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	05/29/14 16:53	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/29/14 16:53	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/29/14 16:53	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/29/14 16:53	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/29/14 16:53	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/29/14 16:53	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	05/29/14 16:53	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	05/29/14 16:53	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61192.07 (continued)

Sample Tag: MW-28 (05212014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	05/29/14 16:53	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/29/14 16:53	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/29/14 16:53	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/29/14 16:53	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/29/14 16:53	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/29/14 16:53	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/29/14 16:53	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/29/14 16:53	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/29/14 16:53	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/29/14 16:53	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61192.07 (continued)

Sample Tag: MW-28 (05212014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 16:53	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/29/14 16:53	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/29/14 16:53	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 16:53	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 16:53	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	05/29/14 16:53	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/29/14 16:53	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61192.08
Sample Tag: MW-10 (05212014)
Collected Date/Time: 05/21/2014 12:25
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/30/14 10:14	LBR		
PNA Extraction	Completed			SW3510C	05/27/14 12:16	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:05	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/27/14 17:55	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/27/14 17:55	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/27/14 17:55	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/27/14 17:55	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/27/14 17:55	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 17:55	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 17:55	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/27/14 17:55	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	05/27/14 17:55	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/27/14 17:55	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 17:55	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	05/27/14 17:55	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/27/14 17:55	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	05/27/14 17:55	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/27/14 17:55	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/27/14 17:55	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/27/14 17:55	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/27/14 17:55	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/29/14 17:15	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	05/29/14 17:15	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/29/14 17:15	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/29/14 17:15	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/29/14 17:15	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/29/14 17:15	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/29/14 17:15	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	05/29/14 17:15	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	05/29/14 17:15	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61192.08 (continued)

Sample Tag: MW-10 (05212014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	05/29/14 17:15	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/29/14 17:15	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/29/14 17:15	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/29/14 17:15	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/29/14 17:15	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/29/14 17:15	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/29/14 17:15	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/29/14 17:15	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/29/14 17:15	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/29/14 17:15	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61192.08 (continued)

Sample Tag: MW-10 (05212014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:15	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/29/14 17:15	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/29/14 17:15	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 17:15	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 17:15	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	05/29/14 17:15	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/29/14 17:15	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61192.09
Sample Tag: MW-16 (05212014)
Collected Date/Time: 05/21/2014 13:45
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/30/14 10:14	LBR		
PNA Extraction	Completed			SW3510C	05/27/14 12:16	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:06	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/27/14 18:16	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/27/14 18:16	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/27/14 18:16	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/27/14 18:16	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/27/14 18:16	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 18:16	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 18:16	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/27/14 18:16	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	05/27/14 18:16	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/27/14 18:16	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 18:16	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	05/27/14 18:16	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/27/14 18:16	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	05/27/14 18:16	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/27/14 18:16	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/27/14 18:16	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/27/14 18:16	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/27/14 18:16	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/29/14 17:37	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	05/29/14 17:37	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/29/14 17:37	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/29/14 17:37	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/29/14 17:37	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/29/14 17:37	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/29/14 17:37	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	05/29/14 17:37	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	05/29/14 17:37	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61192.09 (continued)

Sample Tag: MW-16 (05212014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	05/29/14 17:37	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/29/14 17:37	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/29/14 17:37	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/29/14 17:37	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/29/14 17:37	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/29/14 17:37	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/29/14 17:37	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/29/14 17:37	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/29/14 17:37	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/29/14 17:37	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61192.09 (continued)

Sample Tag: MW-16 (05212014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:37	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/29/14 17:37	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/29/14 17:37	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 17:37	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 17:37	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	05/29/14 17:37	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/29/14 17:37	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61192.10
Sample Tag: MW-21 (05212014)
Collected Date/Time: 05/21/2014 14:50
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/30/14 10:14	LBR		
PNA Extraction	Completed			SW3510C	05/27/14 12:16	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:07	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/27/14 18:37	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/27/14 18:37	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/27/14 18:37	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/27/14 18:37	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/27/14 18:37	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 18:37	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 18:37	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/27/14 18:37	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	05/27/14 18:37	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/27/14 18:37	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 18:37	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	05/27/14 18:37	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/27/14 18:37	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	05/27/14 18:37	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/27/14 18:37	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/27/14 18:37	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/27/14 18:37	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/27/14 18:37	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/29/14 17:59	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	05/29/14 17:59	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/29/14 17:59	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/29/14 17:59	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/29/14 17:59	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/29/14 17:59	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/29/14 17:59	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	05/29/14 17:59	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	05/29/14 17:59	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61192.10 (continued)

Sample Tag: MW-21 (05212014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	05/29/14 17:59	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/29/14 17:59	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/29/14 17:59	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/29/14 17:59	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/29/14 17:59	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/29/14 17:59	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/29/14 17:59	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/29/14 17:59	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/29/14 17:59	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/29/14 17:59	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61192.10 (continued)

Sample Tag: MW-21 (05212014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 17:59	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/29/14 17:59	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/29/14 17:59	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 17:59	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 17:59	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	05/29/14 17:59	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/29/14 17:59	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61192.11
Sample Tag: MW-22 (05212014)
Collected Date/Time: 05/21/2014 15:50
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/30/14 10:14	LBR		
PNA Extraction	Completed			SW3510C	05/27/14 12:16	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:08	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/27/14 18:58	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/27/14 18:58	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/27/14 18:58	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/27/14 18:58	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/27/14 18:58	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 18:58	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 18:58	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/27/14 18:58	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	05/27/14 18:58	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/27/14 18:58	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/27/14 18:58	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	05/27/14 18:58	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/27/14 18:58	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	05/27/14 18:58	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/27/14 18:58	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/27/14 18:58	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/27/14 18:58	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/27/14 18:58	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/29/14 18:21	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	05/29/14 18:21	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/29/14 18:21	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/29/14 18:21	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/29/14 18:21	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/29/14 18:21	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/29/14 18:21	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	05/29/14 18:21	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	05/29/14 18:21	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61192.11 (continued)

Sample Tag: MW-22 (05212014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	05/29/14 18:21	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/29/14 18:21	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/29/14 18:21	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/29/14 18:21	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/29/14 18:21	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/29/14 18:21	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/29/14 18:21	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/29/14 18:21	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/29/14 18:21	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/29/14 18:21	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61192.11 (continued)

Sample Tag: MW-22 (05212014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:21	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/29/14 18:21	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/29/14 18:21	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 18:21	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 18:21	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	05/29/14 18:21	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/29/14 18:21	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61192.12
Sample Tag: MW-18 (05222014)
Collected Date/Time: 05/22/2014 09:30
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/30/14 10:14	LBR		
PNA Extraction	Completed			SW3510C	05/28/14 10:22	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:09	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/28/14 15:23	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/28/14 15:23	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/28/14 15:23	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/28/14 15:23	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/28/14 15:23	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 15:23	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 15:23	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/28/14 15:23	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	05/28/14 15:23	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/28/14 15:23	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 15:23	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	05/28/14 15:23	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/28/14 15:23	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	05/28/14 15:23	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/28/14 15:23	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/28/14 15:23	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/28/14 15:23	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/28/14 15:23	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/29/14 18:43	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	05/29/14 18:43	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/29/14 18:43	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/29/14 18:43	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/29/14 18:43	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/29/14 18:43	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/29/14 18:43	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	05/29/14 18:43	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	05/29/14 18:43	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61192.12 (continued)

Sample Tag: MW-18 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	05/29/14 18:43	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/29/14 18:43	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/29/14 18:43	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/29/14 18:43	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/29/14 18:43	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/29/14 18:43	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/29/14 18:43	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/29/14 18:43	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/29/14 18:43	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/29/14 18:43	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61192.12 (continued)

Sample Tag: MW-18 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 18:43	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/29/14 18:43	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/29/14 18:43	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 18:43	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 18:43	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	05/29/14 18:43	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/29/14 18:43	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61192.13

Sample Tag: MW-17 (05222014)

Collected Date/Time: 05/22/2014 10:40

Matrix: Groundwater

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/30/14 10:14	LBR		
PNA Extraction	Completed			SW3510C	05/28/14 10:22	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:17	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/28/14 15:46	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/28/14 15:46	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/28/14 15:46	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/28/14 15:46	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/28/14 15:46	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 15:46	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 15:46	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/28/14 15:46	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	05/28/14 15:46	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/28/14 15:46	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 15:46	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	05/28/14 15:46	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/28/14 15:46	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	05/28/14 15:46	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/28/14 15:46	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/28/14 15:46	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/28/14 15:46	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/28/14 15:46	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/29/14 19:05	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	05/29/14 19:05	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/29/14 19:05	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/29/14 19:05	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/29/14 19:05	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/29/14 19:05	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/29/14 19:05	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	05/29/14 19:05	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	05/29/14 19:05	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61192.13 (continued)

Sample Tag: MW-17 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	05/29/14 19:05	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/29/14 19:05	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/29/14 19:05	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/29/14 19:05	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/29/14 19:05	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/29/14 19:05	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/29/14 19:05	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/29/14 19:05	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/29/14 19:05	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/29/14 19:05	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61192.13 (continued)

Sample Tag: MW-17 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:05	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/29/14 19:05	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/29/14 19:05	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 19:05	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 19:05	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	05/29/14 19:05	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/29/14 19:05	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61192.14
Sample Tag: MW-5 (05222014)
Collected Date/Time: 05/22/2014 11:45
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/30/14 10:14	LBR		
PNA Extraction	Completed			SW3510C	05/28/14 10:22	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:18	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/28/14 16:09	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/28/14 16:09	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/28/14 16:09	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/28/14 16:09	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/28/14 16:09	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 16:09	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 16:09	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/28/14 16:09	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	05/28/14 16:09	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/28/14 16:09	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 16:09	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	05/28/14 16:09	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/28/14 16:09	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	05/28/14 16:09	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/28/14 16:09	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/28/14 16:09	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/28/14 16:09	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/28/14 16:09	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/29/14 19:27	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	05/29/14 19:27	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/29/14 19:27	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/29/14 19:27	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/29/14 19:27	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/29/14 19:27	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/29/14 19:27	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	05/29/14 19:27	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	05/29/14 19:27	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61192.14 (continued)

Sample Tag: MW-5 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	05/29/14 19:27	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/29/14 19:27	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	75-34-3	
cis-1,2-Dichloroethene	8	ug/L	1	SW8260B	05/29/14 19:27	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/29/14 19:27	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/29/14 19:27	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/29/14 19:27	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	107-06-2	
Trichloroethene	49	ug/L	1	SW8260B	05/29/14 19:27	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/29/14 19:27	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/29/14 19:27	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/29/14 19:27	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/29/14 19:27	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/29/14 19:27	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61192.14 (continued)

Sample Tag: MW-5 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 19:27	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/29/14 19:27	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/29/14 19:27	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 19:27	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 19:27	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	05/29/14 19:27	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/29/14 19:27	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61192.15
Sample Tag: MW-31 (05222014)
Collected Date/Time: 05/22/2014 12:45
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/30/14 10:14	LBR		
PNA Extraction	Completed			SW3510C	05/28/14 10:22	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:19	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/28/14 16:32	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/28/14 16:32	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/28/14 16:32	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/28/14 16:32	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/28/14 16:32	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 16:32	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 16:32	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/28/14 16:32	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	05/28/14 16:32	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/28/14 16:32	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 16:32	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	05/28/14 16:32	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/28/14 16:32	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	05/28/14 16:32	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/28/14 16:32	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/28/14 16:32	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/28/14 16:32	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/28/14 16:32	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/30/14 14:35	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	05/30/14 14:35	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/30/14 14:35	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/30/14 14:35	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/30/14 14:35	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/30/14 14:35	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/30/14 14:35	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	05/30/14 14:35	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	05/30/14 14:35	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61192.15 (continued)

Sample Tag: MW-31 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	05/30/14 14:35	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/30/14 14:35	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/30/14 14:35	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/30/14 14:35	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/30/14 14:35	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/30/14 14:35	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/30/14 14:35	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/30/14 14:35	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/30/14 14:35	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/30/14 14:35	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61192.15 (continued)

Sample Tag: MW-31 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:35	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/30/14 14:35	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/30/14 14:35	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/30/14 14:35	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/30/14 14:35	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	05/30/14 14:35	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/30/14 14:35	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61192.16
Sample Tag: MW-4 (05222014)
Collected Date/Time: 05/22/2014 09:25
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	05/29/14 11:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/30/14 10:14	LBR		
PNA Extraction	Completed			SW3510C	05/29/14 11:05	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:20	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/30/14 13:21	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/30/14 13:21	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/30/14 13:21	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/30/14 13:21	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/30/14 13:21	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/30/14 13:21	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/30/14 13:21	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/30/14 13:21	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	05/30/14 13:21	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/30/14 13:21	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/30/14 13:21	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	05/30/14 13:21	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/30/14 13:21	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	05/30/14 13:21	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/30/14 13:21	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/30/14 13:21	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/30/14 13:21	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/30/14 13:21	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/29/14 15:25	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	05/29/14 15:25	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/29/14 15:25	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/29/14 15:25	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/29/14 15:25	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/29/14 15:25	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/29/14 15:25	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	05/29/14 15:25	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	05/29/14 15:25	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61192.16 (continued)

Sample Tag: MW-4 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	05/29/14 15:25	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/29/14 15:25	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/29/14 15:25	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/29/14 15:25	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/29/14 15:25	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/29/14 15:25	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/29/14 15:25	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/29/14 15:25	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/29/14 15:25	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/29/14 15:25	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61192.16 (continued)

Sample Tag: MW-4 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/29/14 15:25	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/29/14 15:25	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/29/14 15:25	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 15:25	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/29/14 15:25	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	05/29/14 15:25	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/29/14 15:25	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61192.17
Sample Tag: MW-4 (05222014) MS
Collected Date/Time: 05/22/2014 09:25
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/30/14 10:14	LBR		
PNA Extraction	Completed			SW3510C	05/29/14 11:05	EMR		

Metals

Lead, Dissolved	0.244	mg/L	0.003	E200.8	05/29/14 14:21	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	29	ug/L	5	SW8270C	05/30/14 13:42	PL	83-32-9	1
Acenaphthylene	34	ug/L	5	SW8270C	05/30/14 13:42	PL	208-96-8	1
Anthracene	33	ug/L	5	SW8270C	05/30/14 13:42	PL	120-12-7	1
Benzo(a)anthracene	37	ug/L	1	SW8270C	05/30/14 13:42	PL	56-55-3	1
Benzo(a)pyrene	36	ug/L	1	SW8270C	05/30/14 13:42	PL	50-32-8	1
Benzo(b)fluoranthene	38	ug/L	1	SW8270C	05/30/14 13:42	PL	205-99-2	1
Benzo(k)fluoranthene	39	ug/L	1	SW8270C	05/30/14 13:42	PL	207-08-9	1
Benzo(ghi)perylene	35	ug/L	1	SW8270C	05/30/14 13:42	PL	191-24-2	1
Chrysene	37	ug/L	1	SW8270C	05/30/14 13:42	PL	218-01-9	1
Dibenzo(ah)anthracene	35	ug/L	2	SW8270C	05/30/14 13:42	PL	53-70-3	1
Fluoranthene	34	ug/L	1	SW8270C	05/30/14 13:42	PL	206-44-0	1
Fluorene	32	ug/L	5	SW8270C	05/30/14 13:42	PL	86-73-7	1
Indeno(1,2,3-cd)pyrene	36	ug/L	2	SW8270C	05/30/14 13:42	PL	193-39-5	1
Naphthalene	33	ug/L	5	SW8270C	05/30/14 13:42	PL	91-20-3	1
Phenanthrene	33	ug/L	2	SW8270C	05/30/14 13:42	PL	85-01-8	1
Pyrene	40	ug/L	5	SW8270C	05/30/14 13:42	PL	129-00-0	1
2-Methylnaphthalene	32	ug/L	5	SW8270C	05/30/14 13:42	PL	91-57-6	1
1-Methylnaphthalene	29	ug/L	5	SW8270C	05/30/14 13:42	PL	90-12-0	1

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	44	ug/L	10	SW8260B	05/29/14 13:13	WAT	60-29-7	2
Acetone	Not detected	ug/L	50	SW8260B	05/29/14 13:13	WAT	67-64-1	2
Methyl iodide	47	ug/L	1	SW8260B	05/29/14 13:13	WAT	74-88-4	2
Carbon disulfide	52	ug/L	5	SW8260B	05/29/14 13:13	WAT	75-15-0	2
tert-Methyl butyl ether (MTBE)	49	ug/L	5	SW8260B	05/29/14 13:13	WAT	1634-04-4	2
Acrylonitrile	50	ug/L	2	SW8260B	05/29/14 13:13	WAT	107-13-1	2
2-Butanone (MEK)	49	ug/L	25	SW8260B	05/29/14 13:13	WAT	78-93-3	2
Dichlorodifluoromethane	55	ug/L	5	SW8260B	05/29/14 13:13	WAT	75-71-8	2
Chloromethane	54	ug/L	5	SW8260B	05/29/14 13:13	WAT	74-87-3	2

1-Sample spiked at 0.052 mg/l

2-Spiked at 50ug/l



Analytical Laboratory Report

Lab Sample ID: S61192.17 (continued)

Sample Tag: MW-4 (05222014) MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Vinyl chloride	51	ug/L	1	SW8260B	05/29/14 13:13	WAT	75-01-4	1
Bromomethane	52	ug/L	5	SW8260B	05/29/14 13:13	WAT	74-83-9	1
Chloroethane	50	ug/L	5	SW8260B	05/29/14 13:13	WAT	75-00-3	1
Trichlorofluoromethane	51	ug/L	1	SW8260B	05/29/14 13:13	WAT	75-69-4	1
1,1-Dichloroethene	50	ug/L	1	SW8260B	05/29/14 13:13	WAT	75-35-4	1
Methylene chloride	49	ug/L	5	SW8260B	05/29/14 13:13	WAT	75-09-2	1
trans-1,2-Dichloroethene	51	ug/L	1	SW8260B	05/29/14 13:13	WAT	156-60-5	1
1,1-Dichloroethane	51	ug/L	1	SW8260B	05/29/14 13:13	WAT	75-34-3	1
cis-1,2-Dichloroethene	50	ug/L	1	SW8260B	05/29/14 13:13	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/29/14 13:13	WAT	109-99-9	1
Chloroform	49	ug/L	1	SW8260B	05/29/14 13:13	WAT	67-66-3	1
Bromochloromethane	50	ug/L	1	SW8260B	05/29/14 13:13	WAT	74-97-5	1
1,1,1-Trichloroethane	54	ug/L	1	SW8260B	05/29/14 13:13	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	56	ug/L	50	SW8260B	05/29/14 13:13	WAT	108-10-1	1
2-Hexanone	53	ug/L	50	SW8260B	05/29/14 13:13	WAT	591-78-6	1
Carbon tetrachloride	49	ug/L	1	SW8260B	05/29/14 13:13	WAT	56-23-5	1
Benzene	51	ug/L	1	SW8260B	05/29/14 13:13	WAT	71-43-2	1
1,2-Dichloroethane	49	ug/L	1	SW8260B	05/29/14 13:13	WAT	107-06-2	1
Trichloroethene	52	ug/L	1	SW8260B	05/29/14 13:13	WAT	79-01-6	1
1,2-Dichloropropane	52	ug/L	1	SW8260B	05/29/14 13:13	WAT	78-87-5	1
Bromodichloromethane	48	ug/L	1	SW8260B	05/29/14 13:13	WAT	75-27-4	1
Dibromomethane	53	ug/L	5	SW8260B	05/29/14 13:13	WAT	74-95-3	1
cis-1,3-Dichloropropene	48	ug/L	1	SW8260B	05/29/14 13:13	WAT	10061-01-5	1
Toluene	51	ug/L	1	SW8260B	05/29/14 13:13	WAT	108-88-3	1
trans-1,3-Dichloropropene	48	ug/L	1	SW8260B	05/29/14 13:13	WAT	10061-02-6	1
1,1,2-Trichloroethane	51	ug/L	1	SW8260B	05/29/14 13:13	WAT	79-00-5	1
Tetrachloroethene	55	ug/L	1	SW8260B	05/29/14 13:13	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	47	ug/L	1	SW8260B	05/29/14 13:13	WAT	110-57-6	1
Dibromochloromethane	49	ug/L	5	SW8260B	05/29/14 13:13	WAT	124-48-1	1
1,2-Dibromoethane	53	ug/L	1	SW8260B	05/29/14 13:13	WAT	106-93-4	1
Chlorobenzene	52	ug/L	1	SW8260B	05/29/14 13:13	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	55	ug/L	1	SW8260B	05/29/14 13:13	WAT	630-20-6	1
Ethylbenzene	53	ug/L	1	SW8260B	05/29/14 13:13	WAT	100-41-4	1
p,m-Xylene	106	ug/L	2	SW8260B	05/29/14 13:13	WAT		1
o-Xylene	52	ug/L	1	SW8260B	05/29/14 13:13	WAT	95-47-6	1
Styrene	53	ug/L	1	SW8260B	05/29/14 13:13	WAT	100-42-5	1
Isopropylbenzene	53	ug/L	5	SW8260B	05/29/14 13:13	WAT	98-82-8	1
Bromoform	50	ug/L	1	SW8260B	05/29/14 13:13	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	51	ug/L	1	SW8260B	05/29/14 13:13	WAT	79-34-5	1
1,2,3-Trichloropropane	51	ug/L	1	SW8260B	05/29/14 13:13	WAT	96-18-4	1
n-Propylbenzene	53	ug/L	1	SW8260B	05/29/14 13:13	WAT	103-65-1	1
Bromobenzene	54	ug/L	1	SW8260B	05/29/14 13:13	WAT	108-86-1	1
1,3,5-Trimethylbenzene	53	ug/L	1	SW8260B	05/29/14 13:13	WAT	108-67-8	1
tert-Butylbenzene	53	ug/L	1	SW8260B	05/29/14 13:13	WAT	98-06-6	1
1,2,4-Trimethylbenzene	53	ug/L	1	SW8260B	05/29/14 13:13	WAT	95-63-6	1
sec-Butylbenzene	51	ug/L	1	SW8260B	05/29/14 13:13	WAT	135-98-8	1
p-Isopropyltoluene	52	ug/L	5	SW8260B	05/29/14 13:13	WAT	99-87-6	1
1,3-Dichlorobenzene	51	ug/L	1	SW8260B	05/29/14 13:13	WAT	541-73-1	1

1-Spiked at 50ug/l



Analytical Laboratory Report

Lab Sample ID: S61192.17 (continued)

Sample Tag: MW-4 (05222014) MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,4-Dichlorobenzene	51	ug/L	1	SW8260B	05/29/14 13:13	WAT	106-46-7	1
1,2-Dichlorobenzene	51	ug/L	1	SW8260B	05/29/14 13:13	WAT	95-50-1	1
1,2,3-Trimethylbenzene	49	ug/L	1	SW8260B	05/29/14 13:13	WAT	526-73-8	1
n-Butylbenzene	51	ug/L	1	SW8260B	05/29/14 13:13	WAT	104-51-8	1
Hexachloroethane	48	ug/L	5	SW8260B	05/29/14 13:13	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	48	ug/L	5	SW8260B	05/29/14 13:13	WAT	96-12-8	1
1,2,4-Trichlorobenzene	54	ug/L	5	SW8260B	05/29/14 13:13	WAT	120-82-1	1
1,2,3-Trichlorobenzene	54	ug/L	5	SW8260B	05/29/14 13:13	WAT	87-61-6	1
Naphthalene	53	ug/L	5	SW8260B	05/29/14 13:13	WAT	91-20-3	1
2-Methylnaphthalene	58	ug/L	5	SW8260B	05/29/14 13:13	WAT	91-57-6	1

1-Spiked at 50ug/l



Analytical Laboratory Report

Lab Sample ID: S61192.18
Sample Tag: MW-4 (05222014) MSD
Collected Date/Time: 05/22/2014 09:25
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/30/14 10:14	LBR		
PNA Extraction	Completed			SW3510C	05/29/14 11:05	EMR		

Metals

Lead, Dissolved	0.243	mg/L	0.003	E200.8	05/29/14 14:22	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	28	ug/L	5	SW8270C	05/30/14 14:02	PL	83-32-9	1
Acenaphthylene	34	ug/L	5	SW8270C	05/30/14 14:02	PL	208-96-8	1
Anthracene	34	ug/L	5	SW8270C	05/30/14 14:02	PL	120-12-7	1
Benzo(a)anthracene	37	ug/L	1	SW8270C	05/30/14 14:02	PL	56-55-3	1
Benzo(a)pyrene	37	ug/L	1	SW8270C	05/30/14 14:02	PL	50-32-8	1
Benzo(b)fluoranthene	38	ug/L	1	SW8270C	05/30/14 14:02	PL	205-99-2	1
Benzo(k)fluoranthene	39	ug/L	1	SW8270C	05/30/14 14:02	PL	207-08-9	1
Benzo(ghi)perylene	36	ug/L	1	SW8270C	05/30/14 14:02	PL	191-24-2	1
Chrysene	37	ug/L	1	SW8270C	05/30/14 14:02	PL	218-01-9	1
Dibenzo(ah)anthracene	36	ug/L	2	SW8270C	05/30/14 14:02	PL	53-70-3	1
Fluoranthene	35	ug/L	1	SW8270C	05/30/14 14:02	PL	206-44-0	1
Fluorene	32	ug/L	5	SW8270C	05/30/14 14:02	PL	86-73-7	1
Indeno(1,2,3-cd)pyrene	36	ug/L	2	SW8270C	05/30/14 14:02	PL	193-39-5	1
Naphthalene	32	ug/L	5	SW8270C	05/30/14 14:02	PL	91-20-3	1
Phenanthrene	34	ug/L	2	SW8270C	05/30/14 14:02	PL	85-01-8	1
Pyrene	41	ug/L	5	SW8270C	05/30/14 14:02	PL	129-00-0	1
2-Methylnaphthalene	32	ug/L	5	SW8270C	05/30/14 14:02	PL	91-57-6	1
1-Methylnaphthalene	30	ug/L	5	SW8270C	05/30/14 14:02	PL	90-12-0	1

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	44	ug/L	10	SW8260B	05/29/14 13:34	WAT	60-29-7	2
Acetone	Not detected	ug/L	50	SW8260B	05/29/14 13:34	WAT	67-64-1	2
Methyl iodide	46	ug/L	1	SW8260B	05/29/14 13:34	WAT	74-88-4	2
Carbon disulfide	47	ug/L	5	SW8260B	05/29/14 13:34	WAT	75-15-0	2
tert-Methyl butyl ether (MTBE)	50	ug/L	5	SW8260B	05/29/14 13:34	WAT	1634-04-4	2
Acrylonitrile	51	ug/L	2	SW8260B	05/29/14 13:34	WAT	107-13-1	2
2-Butanone (MEK)	49	ug/L	25	SW8260B	05/29/14 13:34	WAT	78-93-3	2
Dichlorodifluoromethane	53	ug/L	5	SW8260B	05/29/14 13:34	WAT	75-71-8	2
Chloromethane	53	ug/L	5	SW8260B	05/29/14 13:34	WAT	74-87-3	2

1-Sample spiked at 0.052 mg/l
2-Spiked at 50ug/l



Analytical Laboratory Report

Lab Sample ID: S61192.18 (continued)

Sample Tag: MW-4 (05222014) MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Vinyl chloride	51	ug/L	1	SW8260B	05/29/14 13:34	WAT	75-01-4	1
Bromomethane	53	ug/L	5	SW8260B	05/29/14 13:34	WAT	74-83-9	1
Chloroethane	50	ug/L	5	SW8260B	05/29/14 13:34	WAT	75-00-3	1
Trichlorofluoromethane	50	ug/L	1	SW8260B	05/29/14 13:34	WAT	75-69-4	1
1,1-Dichloroethene	49	ug/L	1	SW8260B	05/29/14 13:34	WAT	75-35-4	1
Methylene chloride	49	ug/L	5	SW8260B	05/29/14 13:34	WAT	75-09-2	1
trans-1,2-Dichloroethene	51	ug/L	1	SW8260B	05/29/14 13:34	WAT	156-60-5	1
1,1-Dichloroethane	51	ug/L	1	SW8260B	05/29/14 13:34	WAT	75-34-3	1
cis-1,2-Dichloroethene	51	ug/L	1	SW8260B	05/29/14 13:34	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/29/14 13:34	WAT	109-99-9	1
Chloroform	50	ug/L	1	SW8260B	05/29/14 13:34	WAT	67-66-3	1
Bromochloromethane	50	ug/L	1	SW8260B	05/29/14 13:34	WAT	74-97-5	1
1,1,1-Trichloroethane	54	ug/L	1	SW8260B	05/29/14 13:34	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	56	ug/L	50	SW8260B	05/29/14 13:34	WAT	108-10-1	1
2-Hexanone	54	ug/L	50	SW8260B	05/29/14 13:34	WAT	591-78-6	1
Carbon tetrachloride	49	ug/L	1	SW8260B	05/29/14 13:34	WAT	56-23-5	1
Benzene	51	ug/L	1	SW8260B	05/29/14 13:34	WAT	71-43-2	1
1,2-Dichloroethane	49	ug/L	1	SW8260B	05/29/14 13:34	WAT	107-06-2	1
Trichloroethene	51	ug/L	1	SW8260B	05/29/14 13:34	WAT	79-01-6	1
1,2-Dichloropropane	53	ug/L	1	SW8260B	05/29/14 13:34	WAT	78-87-5	1
Bromodichloromethane	49	ug/L	1	SW8260B	05/29/14 13:34	WAT	75-27-4	1
Dibromomethane	54	ug/L	5	SW8260B	05/29/14 13:34	WAT	74-95-3	1
cis-1,3-Dichloropropene	48	ug/L	1	SW8260B	05/29/14 13:34	WAT	10061-01-5	1
Toluene	51	ug/L	1	SW8260B	05/29/14 13:34	WAT	108-88-3	1
trans-1,3-Dichloropropene	48	ug/L	1	SW8260B	05/29/14 13:34	WAT	10061-02-6	1
1,1,2-Trichloroethane	50	ug/L	1	SW8260B	05/29/14 13:34	WAT	79-00-5	1
Tetrachloroethene	54	ug/L	1	SW8260B	05/29/14 13:34	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	47	ug/L	1	SW8260B	05/29/14 13:34	WAT	110-57-6	1
Dibromochloromethane	49	ug/L	5	SW8260B	05/29/14 13:34	WAT	124-48-1	1
1,2-Dibromoethane	53	ug/L	1	SW8260B	05/29/14 13:34	WAT	106-93-4	1
Chlorobenzene	52	ug/L	1	SW8260B	05/29/14 13:34	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	56	ug/L	1	SW8260B	05/29/14 13:34	WAT	630-20-6	1
Ethylbenzene	53	ug/L	1	SW8260B	05/29/14 13:34	WAT	100-41-4	1
p,m-Xylene	105	ug/L	2	SW8260B	05/29/14 13:34	WAT		1
o-Xylene	52	ug/L	1	SW8260B	05/29/14 13:34	WAT	95-47-6	1
Styrene	53	ug/L	1	SW8260B	05/29/14 13:34	WAT	100-42-5	1
Isopropylbenzene	53	ug/L	5	SW8260B	05/29/14 13:34	WAT	98-82-8	1
Bromoform	50	ug/L	1	SW8260B	05/29/14 13:34	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	52	ug/L	1	SW8260B	05/29/14 13:34	WAT	79-34-5	1
1,2,3-Trichloropropane	51	ug/L	1	SW8260B	05/29/14 13:34	WAT	96-18-4	1
n-Propylbenzene	53	ug/L	1	SW8260B	05/29/14 13:34	WAT	103-65-1	1
Bromobenzene	54	ug/L	1	SW8260B	05/29/14 13:34	WAT	108-86-1	1
1,3,5-Trimethylbenzene	54	ug/L	1	SW8260B	05/29/14 13:34	WAT	108-67-8	1
tert-Butylbenzene	53	ug/L	1	SW8260B	05/29/14 13:34	WAT	98-06-6	1
1,2,4-Trimethylbenzene	53	ug/L	1	SW8260B	05/29/14 13:34	WAT	95-63-6	1
sec-Butylbenzene	50	ug/L	1	SW8260B	05/29/14 13:34	WAT	135-98-8	1
p-Isopropyltoluene	51	ug/L	5	SW8260B	05/29/14 13:34	WAT	99-87-6	1
1,3-Dichlorobenzene	51	ug/L	1	SW8260B	05/29/14 13:34	WAT	541-73-1	1

1-Spiked at 50ug/l



Analytical Laboratory Report

Lab Sample ID: S61192.18 (continued)

Sample Tag: MW-4 (05222014) MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,4-Dichlorobenzene	50	ug/L	1	SW8260B	05/29/14 13:34	WAT	106-46-7	1
1,2-Dichlorobenzene	51	ug/L	1	SW8260B	05/29/14 13:34	WAT	95-50-1	1
1,2,3-Trimethylbenzene	49	ug/L	1	SW8260B	05/29/14 13:34	WAT	526-73-8	1
n-Butylbenzene	50	ug/L	1	SW8260B	05/29/14 13:34	WAT	104-51-8	1
Hexachloroethane	48	ug/L	5	SW8260B	05/29/14 13:34	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	49	ug/L	5	SW8260B	05/29/14 13:34	WAT	96-12-8	1
1,2,4-Trichlorobenzene	54	ug/L	5	SW8260B	05/29/14 13:34	WAT	120-82-1	1
1,2,3-Trichlorobenzene	53	ug/L	5	SW8260B	05/29/14 13:34	WAT	87-61-6	1
Naphthalene	53	ug/L	5	SW8260B	05/29/14 13:34	WAT	91-20-3	1
2-Methylnaphthalene	58	ug/L	5	SW8260B	05/29/14 13:34	WAT	91-57-6	1

1-Spiked at 50ug/l



Analytical Laboratory Report

Lab Sample ID: S61192.19
Sample Tag: MW-30 (05222014)
Collected Date/Time: 05/22/2014 10:35
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:00	PER		
pH check for VOCs	<2	STD Units		N/A	06/02/14 10:06	LBR		
PNA Extraction	Completed			SW3510C	05/28/14 10:22	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:24	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/28/14 16:54	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/28/14 16:54	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/28/14 16:54	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/28/14 16:54	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/28/14 16:54	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 16:54	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 16:54	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/28/14 16:54	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	05/28/14 16:54	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/28/14 16:54	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 16:54	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	05/28/14 16:54	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/28/14 16:54	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	05/28/14 16:54	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/28/14 16:54	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/28/14 16:54	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/28/14 16:54	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/28/14 16:54	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/30/14 14:57	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	05/30/14 14:57	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/30/14 14:57	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/30/14 14:57	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/30/14 14:57	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/30/14 14:57	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/30/14 14:57	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	05/30/14 14:57	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	05/30/14 14:57	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61192.19 (continued)

Sample Tag: MW-30 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	05/30/14 14:57	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/30/14 14:57	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/30/14 14:57	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/30/14 14:57	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/30/14 14:57	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/30/14 14:57	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/30/14 14:57	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/30/14 14:57	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/30/14 14:57	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/30/14 14:57	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61192.19 (continued)

Sample Tag: MW-30 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:57	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/30/14 14:57	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/30/14 14:57	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/30/14 14:57	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/30/14 14:57	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	05/30/14 14:57	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/30/14 14:57	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61192.20
Sample Tag: MW-12 (05222014)
Collected Date/Time: 05/22/2014 11:35
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:00	PER		
pH check for VOCs	<2	STD Units		N/A	06/02/14 10:06	LBR		
PNA Extraction	Completed			SW3510C	05/28/14 10:22	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:25	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/28/14 17:17	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/28/14 17:17	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/28/14 17:17	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/28/14 17:17	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/28/14 17:17	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 17:17	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 17:17	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/28/14 17:17	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	05/28/14 17:17	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/28/14 17:17	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 17:17	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	05/28/14 17:17	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/28/14 17:17	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	05/28/14 17:17	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/28/14 17:17	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/28/14 17:17	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/28/14 17:17	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/28/14 17:17	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/30/14 15:19	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	05/30/14 15:19	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/30/14 15:19	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/30/14 15:19	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/30/14 15:19	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/30/14 15:19	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/30/14 15:19	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	05/30/14 15:19	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	05/30/14 15:19	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61192.20 (continued)

Sample Tag: MW-12 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	05/30/14 15:19	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/30/14 15:19	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/30/14 15:19	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/30/14 15:19	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/30/14 15:19	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	107-06-2	
Trichloroethene	5	ug/L	1	SW8260B	05/30/14 15:19	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/30/14 15:19	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/30/14 15:19	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/30/14 15:19	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/30/14 15:19	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/30/14 15:19	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61192.20 (continued)

Sample Tag: MW-12 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:19	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/30/14 15:19	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/30/14 15:19	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/30/14 15:19	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/30/14 15:19	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	05/30/14 15:19	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/30/14 15:19	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61192.21
Sample Tag: MW-24D (05222014)
Collected Date/Time: 05/22/2014 12:40
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:00	PER		
pH check for VOCs	<2	STD Units		N/A	06/02/14 10:06	LBR		
PNA Extraction	Completed			SW3510C	05/28/14 10:22	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:26	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/28/14 17:40	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/28/14 17:40	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/28/14 17:40	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/28/14 17:40	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/28/14 17:40	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 17:40	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 17:40	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/28/14 17:40	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	05/28/14 17:40	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/28/14 17:40	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 17:40	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	05/28/14 17:40	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/28/14 17:40	PL	193-39-5	
Naphthalene	94	ug/L	5	SW8270C	05/28/14 17:40	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/28/14 17:40	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/28/14 17:40	PL	129-00-0	
2-Methylnaphthalene	18	ug/L	5	SW8270C	05/28/14 17:40	PL	91-57-6	
1-Methylnaphthalene	10	ug/L	5	SW8270C	05/28/14 17:40	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	2,000	SW8260B	05/31/14 10:29	WAT	60-29-7	Y
Acetone	Not detected	ug/L	10,000	SW8260B	05/31/14 10:29	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	1,000	SW8260B	05/31/14 10:29	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1,000	SW8260B	05/31/14 10:29	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	400	SW8260B	05/31/14 10:29	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	5,000	SW8260B	05/31/14 10:29	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	1,000	SW8260B	05/31/14 10:29	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	1,000	SW8260B	05/31/14 10:29	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	75-01-4	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S61192.21 (continued)

Sample Tag: MW-24D (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Bromomethane	Not detected	ug/L	1,000	SW8260B	05/31/14 10:29	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	1,000	SW8260B	05/31/14 10:29	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	1,000	SW8260B	05/31/14 10:29	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	18,000	SW8260B	05/31/14 10:29	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10,000	SW8260B	05/31/14 10:29	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	10,000	SW8260B	05/31/14 10:29	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	56-23-5	Y
Benzene	26,200	ug/L	200	SW8260B	05/31/14 10:29	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	1,000	SW8260B	05/31/14 10:29	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	10061-01-5	Y
Toluene	25,800	ug/L	200	SW8260B	05/31/14 10:29	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	1,000	SW8260B	05/31/14 10:29	WAT	124-48-1	Y
1,2-Dibromoethane	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	630-20-6	Y
Ethylbenzene	2,100	ug/L	200	SW8260B	05/31/14 10:29	WAT	100-41-4	Y
p,m-Xylene	8,200	ug/L	400	SW8260B	05/31/14 10:29	WAT		Y
o-Xylene	3,600	ug/L	200	SW8260B	05/31/14 10:29	WAT	95-47-6	Y
Styrene	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	1,000	SW8260B	05/31/14 10:29	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	96-18-4	Y
n-Propylbenzene	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	300	ug/L	200	SW8260B	05/31/14 10:29	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	900	ug/L	200	SW8260B	05/31/14 10:29	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	1,000	SW8260B	05/31/14 10:29	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	106-46-7	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S61192.21 (continued)

Sample Tag: MW-24D (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dichlorobenzene	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	300	ug/L	200	SW8260B	05/31/14 10:29	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	200	SW8260B	05/31/14 10:29	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	1,000	SW8260B	05/31/14 10:29	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1,000	SW8260B	05/31/14 10:29	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	1,000	SW8260B	05/31/14 10:29	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	1,000	SW8260B	05/31/14 10:29	WAT	87-61-6	Y
Naphthalene	Not detected	ug/L	1,000	SW8260B	05/31/14 10:29	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	1,000	SW8260B	05/31/14 10:29	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S61192.22
Sample Tag: DUP-01 (05222014)
Collected Date/Time: 05/22/2014 00:01
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:00	PER		
pH check for VOCs	<2	STD Units		N/A	06/02/14 10:06	LBR		
PNA Extraction	Completed			SW3510C	05/28/14 10:22	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:27	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/28/14 18:03	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/28/14 18:03	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/28/14 18:03	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/28/14 18:03	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/28/14 18:03	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 18:03	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 18:03	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/28/14 18:03	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	05/28/14 18:03	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/28/14 18:03	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 18:03	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	05/28/14 18:03	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/28/14 18:03	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	05/28/14 18:03	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/28/14 18:03	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/28/14 18:03	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/28/14 18:03	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/28/14 18:03	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/30/14 15:41	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	05/30/14 15:41	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/30/14 15:41	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/30/14 15:41	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/30/14 15:41	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/30/14 15:41	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/30/14 15:41	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	05/30/14 15:41	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	05/30/14 15:41	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61192.22 (continued)

Sample Tag: DUP-01 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	05/30/14 15:41	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/30/14 15:41	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/30/14 15:41	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/30/14 15:41	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/30/14 15:41	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	107-06-2	
Trichloroethene	5	ug/L	1	SW8260B	05/30/14 15:41	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/30/14 15:41	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/30/14 15:41	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/30/14 15:41	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/30/14 15:41	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/30/14 15:41	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61192.22 (continued)

Sample Tag: DUP-01 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 15:41	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/30/14 15:41	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/30/14 15:41	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/30/14 15:41	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/30/14 15:41	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	05/30/14 15:41	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/30/14 15:41	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61192.23
Sample Tag: DUP-02 (05222014)
Collected Date/Time: 05/22/2014 00:01
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:00	PER		
pH check for VOCs	<2	STD Units		N/A	06/02/14 10:06	LBR		
PNA Extraction	Completed			SW3510C	05/28/14 10:22	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:28	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/28/14 18:25	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/28/14 18:25	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/28/14 18:25	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/28/14 18:25	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/28/14 18:25	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 18:25	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 18:25	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/28/14 18:25	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	05/28/14 18:25	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/28/14 18:25	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 18:25	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	05/28/14 18:25	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/28/14 18:25	PL	193-39-5	
Naphthalene	118	ug/L	5	SW8270C	05/28/14 18:25	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/28/14 18:25	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/28/14 18:25	PL	129-00-0	
2-Methylnaphthalene	23	ug/L	5	SW8270C	05/28/14 18:25	PL	91-57-6	
1-Methylnaphthalene	12	ug/L	5	SW8270C	05/28/14 18:25	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	2,000	SW8260B	05/31/14 10:51	WAT	60-29-7	Y
Acetone	Not detected	ug/L	10,000	SW8260B	05/31/14 10:51	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	1,000	SW8260B	05/31/14 10:51	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1,000	SW8260B	05/31/14 10:51	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	400	SW8260B	05/31/14 10:51	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	5,000	SW8260B	05/31/14 10:51	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	1,000	SW8260B	05/31/14 10:51	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	1,000	SW8260B	05/31/14 10:51	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	75-01-4	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S61192.23 (continued)

Sample Tag: DUP-02 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Bromomethane	Not detected	ug/L	1,000	SW8260B	05/31/14 10:51	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	1,000	SW8260B	05/31/14 10:51	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	1,000	SW8260B	05/31/14 10:51	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	18,000	SW8260B	05/31/14 10:51	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10,000	SW8260B	05/31/14 10:51	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	10,000	SW8260B	05/31/14 10:51	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	56-23-5	Y
Benzene	28,200	ug/L	200	SW8260B	05/31/14 10:51	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	1,000	SW8260B	05/31/14 10:51	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	10061-01-5	Y
Toluene	27,900	ug/L	200	SW8260B	05/31/14 10:51	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	1,000	SW8260B	05/31/14 10:51	WAT	124-48-1	Y
1,2-Dibromoethane	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	630-20-6	Y
Ethylbenzene	2,300	ug/L	200	SW8260B	05/31/14 10:51	WAT	100-41-4	Y
p,m-Xylene	8,800	ug/L	400	SW8260B	05/31/14 10:51	WAT		Y
o-Xylene	3,800	ug/L	200	SW8260B	05/31/14 10:51	WAT	95-47-6	Y
Styrene	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	1,000	SW8260B	05/31/14 10:51	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	96-18-4	Y
n-Propylbenzene	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	300	ug/L	200	SW8260B	05/31/14 10:51	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	1,000	ug/L	200	SW8260B	05/31/14 10:51	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	1,000	SW8260B	05/31/14 10:51	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	106-46-7	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S61192.23 (continued)

Sample Tag: DUP-02 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dichlorobenzene	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	300	ug/L	200	SW8260B	05/31/14 10:51	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	200	SW8260B	05/31/14 10:51	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	1,000	SW8260B	05/31/14 10:51	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1,000	SW8260B	05/31/14 10:51	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	1,000	SW8260B	05/31/14 10:51	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	1,000	SW8260B	05/31/14 10:51	WAT	87-61-6	Y
Naphthalene	Not detected	ug/L	1,000	SW8260B	05/31/14 10:51	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	1,000	SW8260B	05/31/14 10:51	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S61192.24
Sample Tag: Trip Blank
Collected Date/Time: 05/21/2014 00:01
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	06/02/14 10:06	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/30/14 14:13	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	05/30/14 14:13	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/30/14 14:13	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/30/14 14:13	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/30/14 14:13	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/30/14 14:13	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/30/14 14:13	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	05/30/14 14:13	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	05/30/14 14:13	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	05/30/14 14:13	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/30/14 14:13	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/30/14 14:13	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/30/14 14:13	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/30/14 14:13	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/30/14 14:13	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/30/14 14:13	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S61192.24 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/30/14 14:13	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/30/14 14:13	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/30/14 14:13	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 14:13	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/30/14 14:13	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/30/14 14:13	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/30/14 14:13	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/30/14 14:13	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	05/30/14 14:13	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/30/14 14:13	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61192.25
Sample Tag: MW-24S (05222014)
Collected Date/Time: 05/22/2014 13:40
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.0	IR
2	1L Amber	None	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:00	PER		
pH check for VOCs	<2	STD Units		N/A	06/02/14 10:06	LBR		
PNA Extraction	Completed			SW3510C	05/28/14 10:22	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:29	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/28/14 18:48	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/28/14 18:48	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/28/14 18:48	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/28/14 18:48	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/28/14 18:48	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 18:48	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 18:48	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/28/14 18:48	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	05/28/14 18:48	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/28/14 18:48	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/28/14 18:48	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	05/28/14 18:48	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/28/14 18:48	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	05/28/14 18:48	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/28/14 18:48	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/28/14 18:48	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/28/14 18:48	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/28/14 18:48	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/30/14 16:03	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	05/30/14 16:03	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/30/14 16:03	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/30/14 16:03	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/30/14 16:03	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/30/14 16:03	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/30/14 16:03	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	05/30/14 16:03	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	05/30/14 16:03	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61192.25 (continued)

Sample Tag: MW-24S (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	05/30/14 16:03	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/30/14 16:03	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/30/14 16:03	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/30/14 16:03	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/30/14 16:03	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/30/14 16:03	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/30/14 16:03	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/30/14 16:03	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/30/14 16:03	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/30/14 16:03	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61192.25 (continued)

Sample Tag: MW-24S (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/30/14 16:03	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/30/14 16:03	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/30/14 16:03	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/30/14 16:03	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/30/14 16:03	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	05/30/14 16:03	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/30/14 16:03	WAT	91-57-6	

ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of 2

Lab Work Order #

Send Results to:	Contact & Company Name: Allyn Bagnoch/Arcadis		Telephone: 810-225-1971		Preservative B E C														
	Address: 10559 Citation Dr Suite 100		Fax: 810-229-8837		Filtered (✓)														
	City State Zip Brighton MI 48116		E-mail Address: allyn.bagnoch@arcadis-us.com		# of Containers 3 2 1														
					Container Information 1 2 3														
PARAMETER ANALYSIS & METHOD																			
Project Name/Location (City, State): RACER Pontiac EDC, MI				Project #: B0064486 2014.00003				VOC's		PAH's		Dissolved Lead							
Sample's Printed Name: Amy O'Neil CHAD SANDERS				Sample's Signature: <i>[Signature]</i>															
Sample ID				Collection Date Time		Type (✓) Comp Grab		Matrix											
61192																			
.01 SS-1(05212014)				5/21 1035		✓ GW		3 2											
.02 SS-2(05212014)				5/21 1105		✓ GW		3 2											
.03 MW-2(05212014)				5/21 1210		✓ GW		3 2 1											
.04 MW-14(05212014)				5/21 1305		✓ GW		3 2 1											
.05 MW-13(05212014)				5/21 1350		✓ GW		3 2 1											
.06 MW-29(05212014)				5/21 1440		✓ GW		3 2 1											
.07 MW-28(05212014)				5/21 1530		✓ GW		3 2 1											
.08 MW-10(05212014)				5/21 1225		✓ GW		3 2 1											
.09 MW-16(05212014)				5/21 1345		✓ GW		3 2 1											
.10 MW-21(05212014)				5/21 1450		✓ GW		3 2 1											
.11 MW-22(05212014)				5/21 1550		✓ GW		3 2 1											
.12 MW-18(05222014)				5/22 0430		✓ GW		3 2 1											
.13 MW-17(05222014)				5/22 1040		✓ GW		3 2 1											
.14 MW-5(05222014)				5/22 1145		✓ GW		3 2 1											
Special Instructions/Comments:																			
☐ Special QA/QC Instructions(✓):																			

Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By	
Lab Name: Merit	Cooler Custody Seal (✓)	Printed Name: Amy O'Neil	Signature: <i>[Signature]</i>	Printed Name: Tim Gless	Signature: <i>[Signature]</i>	Printed Name: Tim Gless	Signature: <i>[Signature]</i>	Printed Name: Kevin George	Signature: <i>[Signature]</i>
☐ Cooler packed with ice (✓)	☐ Intact ☐ Not Intact	Firm: Arcadis	Date/Time: 5-22-14 1350	Firm/Counter: Merit	Date/Time: 5-22-14 1350	Firm/Counter: Merit	Date/Time: 5-22-14	Firm: Merit	Date/Time: 5/22/14 1530



ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 2 of 2

Lab Work Order #

[illegible]



Analytical Laboratory Report

Report ID: S61230.01(01)
Generated on 06/06/2014

Report to

Attention: Allyn Begnoche
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-225-1971 FAX: 810-229-8837
Email: allyn.begnoche@arcadis-us.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:

Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S61230.01-S61230.15
Project: B0064486.2014.00003 / RACER Pontiac EDC, MI
Collected Date: 05/22/2014 - 05/23/2014
Submitted Date/Time: 05/27/2014 10:00
Sampled by: A O'Neil/C Sanders
P.O. #: B0064486.2014.00003

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), NCDENR (#680), NC Drinking Water (#26702)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (15 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S61230.01	MW-8 (05222014)	Groundwater	05/22/2014 14:45
S61230.02	MW-20 (05222014)	Groundwater	05/22/2014 15:40
S61230.03	MW-23 (05222014)	Groundwater	05/22/2014 14:00
S61230.04	MW-25 (05222014)	Groundwater	05/22/2014 15:05
S61230.05	MW-27 (05232014)	Groundwater	05/23/2014 09:50
S61230.06	MW-11 (05232014)	Groundwater	05/23/2014 10:50
S61230.07	MW-11 (05232014) MS	Groundwater	05/23/2014 10:50
S61230.08	MW-11 (05232014) MSD	Groundwater	05/23/2014 10:50
S61230.09	SS-3 (05232014)	Groundwater	05/23/2014 11:40
S61230.10	SS-4 (05232014)	Groundwater	05/23/2014 12:00
S61230.11	SS-5 (05232014)	Groundwater	05/23/2014 12:30
S61230.12	MW-19 (05232014)	Groundwater	05/23/2014 08:58
S61230.13	MW-26 (05232014)	Groundwater	05/23/2014 10:09
S61230.14	MW-9 (05232014)	Groundwater	05/23/2014 11:35
S61230.15	DUP-03 (05232014)	Groundwater	05/23/2014 00:01



Analytical Laboratory Report

Lab Sample ID: S61230.01
Sample Tag: MW-8 (05222014)
Collected Date/Time: 05/22/2014 14:45
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.6	IR
2	1L Amber	None	Yes	5.6	IR
1	125ml Plastic	HNO3	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:30	PER		
pH check for VOCs	<2	STD Units		N/A	06/04/14 10:27	LBR		
PNA Extraction	Completed			SW3510C	05/29/14 11:05	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:36	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/30/14 20:15	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/30/14 20:15	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/30/14 20:15	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	2	SW8270C	05/30/14 20:15	PL	56-55-3	Y
Benzo(a)pyrene	Not detected	ug/L	2	SW8270C	05/30/14 20:15	PL	50-32-8	Y
Benzo(b)fluoranthene	Not detected	ug/L	2	SW8270C	05/30/14 20:15	PL	205-99-2	Y
Benzo(k)fluoranthene	Not detected	ug/L	2	SW8270C	05/30/14 20:15	PL	207-08-9	Y
Benzo(ghi)perylene	Not detected	ug/L	2	SW8270C	05/30/14 20:15	PL	191-24-2	Y
Chrysene	Not detected	ug/L	2	SW8270C	05/30/14 20:15	PL	218-01-9	Y
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/30/14 20:15	PL	53-70-3	
Fluoranthene	Not detected	ug/L	2	SW8270C	05/30/14 20:15	PL	206-44-0	Y
Fluorene	Not detected	ug/L	5	SW8270C	05/30/14 20:15	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/30/14 20:15	PL	193-39-5	
Naphthalene	54	ug/L	5	SW8270C	05/30/14 20:15	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/30/14 20:15	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/30/14 20:15	PL	129-00-0	
2-Methylnaphthalene	9	ug/L	5	SW8270C	05/30/14 20:15	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/30/14 20:15	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	200	SW8260B	06/03/14 21:56	WAT	60-29-7	Y
Acetone	Not detected	ug/L	1,000	SW8260B	06/03/14 21:56	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	100	SW8260B	06/03/14 21:56	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	100	SW8260B	06/03/14 21:56	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	40	SW8260B	06/03/14 21:56	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	500	SW8260B	06/03/14 21:56	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	100	SW8260B	06/03/14 21:56	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	100	SW8260B	06/03/14 21:56	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	75-01-4	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S61230.01 (continued)

Sample Tag: MW-8 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Bromomethane	Not detected	ug/L	100	SW8260B	06/03/14 21:56	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	100	SW8260B	06/03/14 21:56	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	100	SW8260B	06/03/14 21:56	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	1,800	SW8260B	06/03/14 21:56	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	1,000	SW8260B	06/03/14 21:56	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	1,000	SW8260B	06/03/14 21:56	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	56-23-5	Y
Benzene	3,870	ug/L	20	SW8260B	06/03/14 21:56	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	100	SW8260B	06/03/14 21:56	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	10061-01-5	Y
Toluene	290	ug/L	20	SW8260B	06/03/14 21:56	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	100	SW8260B	06/03/14 21:56	WAT	124-48-1	Y
1,2-Dibromoethane	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	630-20-6	Y
Ethylbenzene	1,730	ug/L	20	SW8260B	06/03/14 21:56	WAT	100-41-4	Y
p,m-Xylene	4,540	ug/L	40	SW8260B	06/03/14 21:56	WAT		Y
o-Xylene	910	ug/L	20	SW8260B	06/03/14 21:56	WAT	95-47-6	Y
Styrene	Not detected	ug/L	40	SW8260B	06/03/14 21:56	WAT	100-42-5	YX
Isopropylbenzene	Not detected	ug/L	100	SW8260B	06/03/14 21:56	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	96-18-4	Y
n-Propylbenzene	160	ug/L	20	SW8260B	06/03/14 21:56	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	230	ug/L	20	SW8260B	06/03/14 21:56	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	830	ug/L	20	SW8260B	06/03/14 21:56	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	100	SW8260B	06/03/14 21:56	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	541-73-1	Y

Y-Elevated reporting limit due to high target concentration

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S61230.01 (continued)

Sample Tag: MW-8 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,4-Dichlorobenzene	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	210	ug/L	20	SW8260B	06/03/14 21:56	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	20	SW8260B	06/03/14 21:56	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	100	SW8260B	06/03/14 21:56	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	100	SW8260B	06/03/14 21:56	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	100	SW8260B	06/03/14 21:56	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	100	SW8260B	06/03/14 21:56	WAT	87-61-6	Y
Naphthalene	100	ug/L	100	SW8260B	06/03/14 21:56	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	100	SW8260B	06/03/14 21:56	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S61230.02

Sample Tag: MW-20 (05222014)

Collected Date/Time: 05/22/2014 15:40

Matrix: Groundwater

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.6	IR
2	1L Amber	None	Yes	5.6	IR
1	125ml Plastic	HNO3	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:30	PER		
pH check for VOCs	<2	STD Units		N/A	06/04/14 10:27	LBR		
PNA Extraction	Completed			SW3510C	05/29/14 11:05	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:37	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/30/14 20:35	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/30/14 20:35	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/30/14 20:35	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/30/14 20:35	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/30/14 20:35	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/30/14 20:35	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/30/14 20:35	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/30/14 20:35	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	05/30/14 20:35	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/30/14 20:35	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/30/14 20:35	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	05/30/14 20:35	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/30/14 20:35	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	05/30/14 20:35	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/30/14 20:35	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/30/14 20:35	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/30/14 20:35	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/30/14 20:35	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	06/03/14 14:37	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	06/03/14 14:37	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	06/03/14 14:37	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	06/03/14 14:37	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	06/03/14 14:37	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	06/03/14 14:37	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	06/03/14 14:37	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	06/03/14 14:37	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	06/03/14 14:37	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61230.02 (continued)

Sample Tag: MW-20 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	06/03/14 14:37	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	06/03/14 14:37	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	06/03/14 14:37	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	06/03/14 14:37	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	06/03/14 14:37	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	06/03/14 14:37	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	06/03/14 14:37	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	06/03/14 14:37	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	06/03/14 14:37	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	06/03/14 14:37	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61230.02 (continued)

Sample Tag: MW-20 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:37	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	06/03/14 14:37	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	06/03/14 14:37	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	06/03/14 14:37	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	06/03/14 14:37	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	06/03/14 14:37	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	06/03/14 14:37	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61230.03
Sample Tag: MW-23 (05222014)
Collected Date/Time: 05/22/2014 14:00
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.6	IR
2	1L Amber	None	Yes	5.6	IR
1	125ml Plastic	HNO3	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:30	PER		
pH check for VOCs	<2	STD Units		N/A	06/04/14 10:27	LBR		
PNA Extraction	Completed			SW3510C	05/29/14 14:18	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:38	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/30/14 20:56	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/30/14 20:56	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/30/14 20:56	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/30/14 20:56	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/30/14 20:56	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/30/14 20:56	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/30/14 20:56	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/30/14 20:56	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	05/30/14 20:56	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/30/14 20:56	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/30/14 20:56	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	05/30/14 20:56	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/30/14 20:56	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	05/30/14 20:56	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/30/14 20:56	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/30/14 20:56	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/30/14 20:56	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/30/14 20:56	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	06/03/14 14:59	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	06/03/14 14:59	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	06/03/14 14:59	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	06/03/14 14:59	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	06/03/14 14:59	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	06/03/14 14:59	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	06/03/14 14:59	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	06/03/14 14:59	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	06/03/14 14:59	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61230.03 (continued)

Sample Tag: MW-23 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	06/03/14 14:59	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	06/03/14 14:59	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	06/03/14 14:59	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	06/03/14 14:59	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	06/03/14 14:59	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	06/03/14 14:59	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	06/03/14 14:59	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	06/03/14 14:59	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	06/03/14 14:59	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	06/03/14 14:59	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61230.03 (continued)

Sample Tag: MW-23 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 14:59	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	06/03/14 14:59	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	06/03/14 14:59	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	06/03/14 14:59	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	06/03/14 14:59	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	06/03/14 14:59	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	06/03/14 14:59	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61230.04
Sample Tag: MW-25 (05222014)
Collected Date/Time: 05/22/2014 15:05
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.6	IR
2	1L Amber	None	Yes	5.6	IR
1	125ml Plastic	HNO3	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:30	PER		
pH check for VOCs	<2	STD Units		N/A	06/04/14 10:27	LBR		
PNA Extraction	Completed			SW3510C	05/29/14 14:18	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:39	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/30/14 21:16	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/30/14 21:16	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	05/30/14 21:16	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/30/14 21:16	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/30/14 21:16	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/30/14 21:16	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/30/14 21:16	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/30/14 21:16	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	05/30/14 21:16	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/30/14 21:16	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/30/14 21:16	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	05/30/14 21:16	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/30/14 21:16	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	05/30/14 21:16	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/30/14 21:16	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	05/30/14 21:16	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/30/14 21:16	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/30/14 21:16	PL	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	06/03/14 15:21	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	06/03/14 15:21	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	06/03/14 15:21	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	06/03/14 15:21	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	06/03/14 15:21	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	06/03/14 15:21	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	06/03/14 15:21	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	06/03/14 15:21	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	06/03/14 15:21	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61230.04 (continued)

Sample Tag: MW-25 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	06/03/14 15:21	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	06/03/14 15:21	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	06/03/14 15:21	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	06/03/14 15:21	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	06/03/14 15:21	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	06/03/14 15:21	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	06/03/14 15:21	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	06/03/14 15:21	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	06/03/14 15:21	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	06/03/14 15:21	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61230.04 (continued)

Sample Tag: MW-25 (05222014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:21	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	06/03/14 15:21	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	06/03/14 15:21	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	06/03/14 15:21	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	06/03/14 15:21	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	06/03/14 15:21	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	06/03/14 15:21	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61230.05

Sample Tag: MW-27 (05232014)

Collected Date/Time: 05/23/2014 09:50

Matrix: Groundwater

COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.6	IR
2	1L Amber	None	Yes	5.6	IR
1	125ml Plastic	HNO3	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:30	PER		
pH check for VOCs	<2	STD Units		N/A	06/04/14 10:27	LBR		
PNA Extraction	Completed			SW3510C	05/30/14 15:04	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:40	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	06/01/14 16:37	JGH	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	06/01/14 16:37	JGH	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	06/01/14 16:37	JGH	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	06/01/14 16:37	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	06/01/14 16:37	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 16:37	JGH	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 16:37	JGH	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	06/01/14 16:37	JGH	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	06/01/14 16:37	JGH	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	06/01/14 16:37	JGH	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 16:37	JGH	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	06/01/14 16:37	JGH	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	06/01/14 16:37	JGH	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	06/01/14 16:37	JGH	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	06/01/14 16:37	JGH	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	06/01/14 16:37	JGH	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	06/01/14 16:37	JGH	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	06/01/14 16:37	JGH	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	06/03/14 15:43	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	06/03/14 15:43	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	06/03/14 15:43	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	06/03/14 15:43	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	06/03/14 15:43	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	06/03/14 15:43	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	06/03/14 15:43	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	06/03/14 15:43	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	06/03/14 15:43	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61230.05 (continued)

Sample Tag: MW-27 (05232014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	06/03/14 15:43	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	06/03/14 15:43	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	06/03/14 15:43	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	06/03/14 15:43	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	06/03/14 15:43	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	107-06-2	
Trichloroethene	4	ug/L	1	SW8260B	06/03/14 15:43	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	06/03/14 15:43	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	06/03/14 15:43	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	06/03/14 15:43	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	06/03/14 15:43	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	06/03/14 15:43	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61230.05 (continued)

Sample Tag: MW-27 (05232014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 15:43	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	06/03/14 15:43	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	06/03/14 15:43	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	06/03/14 15:43	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	06/03/14 15:43	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	06/03/14 15:43	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	06/03/14 15:43	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61230.06
Sample Tag: MW-11 (05232014)
Collected Date/Time: 05/23/2014 10:50
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.6	IR
2	1L Amber	None	Yes	5.6	IR
1	125ml Plastic	HNO3	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:30	PER		
pH check for VOCs	<2	STD Units		N/A	06/04/14 10:27	LBR		
PNA Extraction	Completed			SW3510C	05/30/14 15:04	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:42	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	06/01/14 16:59	JGH	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	06/01/14 16:59	JGH	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	06/01/14 16:59	JGH	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	06/01/14 16:59	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	06/01/14 16:59	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 16:59	JGH	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 16:59	JGH	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	06/01/14 16:59	JGH	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	06/01/14 16:59	JGH	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	06/01/14 16:59	JGH	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 16:59	JGH	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	06/01/14 16:59	JGH	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	06/01/14 16:59	JGH	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	06/01/14 16:59	JGH	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	06/01/14 16:59	JGH	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	06/01/14 16:59	JGH	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	06/01/14 16:59	JGH	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	06/01/14 16:59	JGH	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	06/03/14 16:05	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	06/03/14 16:05	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	06/03/14 16:05	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	06/03/14 16:05	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	06/03/14 16:05	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	06/03/14 16:05	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	06/03/14 16:05	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	06/03/14 16:05	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	06/03/14 16:05	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61230.06 (continued)

Sample Tag: MW-11 (05232014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	06/03/14 16:05	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	06/03/14 16:05	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	06/03/14 16:05	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	06/03/14 16:05	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	06/03/14 16:05	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	06/03/14 16:05	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	06/03/14 16:05	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	06/03/14 16:05	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	06/03/14 16:05	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	06/03/14 16:05	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61230.06 (continued)

Sample Tag: MW-11 (05232014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:05	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	06/03/14 16:05	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	06/03/14 16:05	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	06/03/14 16:05	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	06/03/14 16:05	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	06/03/14 16:05	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	06/03/14 16:05	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61230.07
Sample Tag: MW-11 (05232014) MS
Collected Date/Time: 05/23/2014 10:50
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.6	IR
2	1L Amber	None	Yes	5.6	IR
1	125ml Plastic	HNO3	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:30	PER		
pH check for VOCs	<2	STD Units		N/A	06/04/14 10:27	LBR		
PNA Extraction	Completed			SW3510C	05/30/14 15:04	EMR		

Metals

Lead, Dissolved	0.240	mg/L	0.003	E200.8	05/29/14 14:43	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	47	ug/L	5	SW8270C	06/01/14 17:22	JGH	83-32-9	1
Acenaphthylene	46	ug/L	5	SW8270C	06/01/14 17:22	JGH	208-96-8	1
Anthracene	45	ug/L	5	SW8270C	06/01/14 17:22	JGH	120-12-7	1
Benzo(a)anthracene	42	ug/L	1	SW8270C	06/01/14 17:22	JGH	56-55-3	1
Benzo(a)pyrene	45	ug/L	1	SW8270C	06/01/14 17:22	JGH	50-32-8	1
Benzo(b)fluoranthene	53	ug/L	1	SW8270C	06/01/14 17:22	JGH	205-99-2	1
Benzo(k)fluoranthene	44	ug/L	1	SW8270C	06/01/14 17:22	JGH	207-08-9	1
Benzo(ghi)perylene	34	ug/L	1	SW8270C	06/01/14 17:22	JGH	191-24-2	1
Chrysene	46	ug/L	1	SW8270C	06/01/14 17:22	JGH	218-01-9	1
Dibenzo(ah)anthracene	40	ug/L	2	SW8270C	06/01/14 17:22	JGH	53-70-3	1
Fluoranthene	48	ug/L	1	SW8270C	06/01/14 17:22	JGH	206-44-0	1
Fluorene	48	ug/L	5	SW8270C	06/01/14 17:22	JGH	86-73-7	1
Indeno(1,2,3-cd)pyrene	39	ug/L	2	SW8270C	06/01/14 17:22	JGH	193-39-5	1
Naphthalene	46	ug/L	5	SW8270C	06/01/14 17:22	JGH	91-20-3	1
Phenanthrene	47	ug/L	2	SW8270C	06/01/14 17:22	JGH	85-01-8	1
Pyrene	42	ug/L	5	SW8270C	06/01/14 17:22	JGH	129-00-0	1
2-Methylnaphthalene	48	ug/L	5	SW8270C	06/01/14 17:22	JGH	91-57-6	1
1-Methylnaphthalene	48	ug/L	5	SW8270C	06/01/14 17:22	JGH	90-12-0	1

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	44	ug/L	10	SW8260B	06/03/14 22:18	WAT	60-29-7	2
Acetone	Not detected	ug/L	50	SW8260B	06/03/14 22:18	WAT	67-64-1	2
Methyl iodide	49	ug/L	1	SW8260B	06/03/14 22:18	WAT	74-88-4	2
Carbon disulfide	50	ug/L	5	SW8260B	06/03/14 22:18	WAT	75-15-0	2
tert-Methyl butyl ether (MTBE)	49	ug/L	5	SW8260B	06/03/14 22:18	WAT	1634-04-4	2
Acrylonitrile	53	ug/L	2	SW8260B	06/03/14 22:18	WAT	107-13-1	2
2-Butanone (MEK)	51	ug/L	25	SW8260B	06/03/14 22:18	WAT	78-93-3	2
Dichlorodifluoromethane	53	ug/L	5	SW8260B	06/03/14 22:18	WAT	75-71-8	2
Chloromethane	54	ug/L	5	SW8260B	06/03/14 22:18	WAT	74-87-3	2

1-Spiked at 50ug/L

2-Spiked at 50ug/l.



Analytical Laboratory Report

Lab Sample ID: S61230.07 (continued)

Sample Tag: MW-11 (05232014) MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Vinyl chloride	50	ug/L	1	SW8260B	06/03/14 22:18	WAT	75-01-4	1
Bromomethane	52	ug/L	5	SW8260B	06/03/14 22:18	WAT	74-83-9	1
Chloroethane	50	ug/L	5	SW8260B	06/03/14 22:18	WAT	75-00-3	1
Trichlorofluoromethane	51	ug/L	1	SW8260B	06/03/14 22:18	WAT	75-69-4	1
1,1-Dichloroethene	50	ug/L	1	SW8260B	06/03/14 22:18	WAT	75-35-4	1
Methylene chloride	51	ug/L	5	SW8260B	06/03/14 22:18	WAT	75-09-2	1
trans-1,2-Dichloroethene	53	ug/L	1	SW8260B	06/03/14 22:18	WAT	156-60-5	1
1,1-Dichloroethane	53	ug/L	1	SW8260B	06/03/14 22:18	WAT	75-34-3	1
cis-1,2-Dichloroethene	53	ug/L	1	SW8260B	06/03/14 22:18	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	06/03/14 22:18	WAT	109-99-9	1
Chloroform	52	ug/L	1	SW8260B	06/03/14 22:18	WAT	67-66-3	1
Bromochloromethane	52	ug/L	1	SW8260B	06/03/14 22:18	WAT	74-97-5	1
1,1,1-Trichloroethane	55	ug/L	1	SW8260B	06/03/14 22:18	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	57	ug/L	50	SW8260B	06/03/14 22:18	WAT	108-10-1	1
2-Hexanone	55	ug/L	50	SW8260B	06/03/14 22:18	WAT	591-78-6	1
Carbon tetrachloride	49	ug/L	1	SW8260B	06/03/14 22:18	WAT	56-23-5	1
Benzene	52	ug/L	1	SW8260B	06/03/14 22:18	WAT	71-43-2	1
1,2-Dichloroethane	50	ug/L	1	SW8260B	06/03/14 22:18	WAT	107-06-2	1
Trichloroethene	53	ug/L	1	SW8260B	06/03/14 22:18	WAT	79-01-6	1
1,2-Dichloropropane	53	ug/L	1	SW8260B	06/03/14 22:18	WAT	78-87-5	1
Bromodichloromethane	49	ug/L	1	SW8260B	06/03/14 22:18	WAT	75-27-4	1
Dibromomethane	54	ug/L	5	SW8260B	06/03/14 22:18	WAT	74-95-3	1
cis-1,3-Dichloropropene	46	ug/L	1	SW8260B	06/03/14 22:18	WAT	10061-01-5	1
Toluene	52	ug/L	1	SW8260B	06/03/14 22:18	WAT	108-88-3	1
trans-1,3-Dichloropropene	46	ug/L	1	SW8260B	06/03/14 22:18	WAT	10061-02-6	1
1,1,2-Trichloroethane	51	ug/L	1	SW8260B	06/03/14 22:18	WAT	79-00-5	1
Tetrachloroethene	54	ug/L	1	SW8260B	06/03/14 22:18	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	42	ug/L	1	SW8260B	06/03/14 22:18	WAT	110-57-6	1
Dibromochloromethane	49	ug/L	5	SW8260B	06/03/14 22:18	WAT	124-48-1	1
1,2-Dibromoethane	53	ug/L	1	SW8260B	06/03/14 22:18	WAT	106-93-4	1
Chlorobenzene	52	ug/L	1	SW8260B	06/03/14 22:18	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	57	ug/L	1	SW8260B	06/03/14 22:18	WAT	630-20-6	1
Ethylbenzene	53	ug/L	1	SW8260B	06/03/14 22:18	WAT	100-41-4	1
p,m-Xylene	105	ug/L	2	SW8260B	06/03/14 22:18	WAT		1
o-Xylene	52	ug/L	1	SW8260B	06/03/14 22:18	WAT	95-47-6	1
Styrene	52	ug/L	1	SW8260B	06/03/14 22:18	WAT	100-42-5	1
Isopropylbenzene	54	ug/L	5	SW8260B	06/03/14 22:18	WAT	98-82-8	1
Bromoform	50	ug/L	1	SW8260B	06/03/14 22:18	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	55	ug/L	1	SW8260B	06/03/14 22:18	WAT	79-34-5	1
1,2,3-Trichloropropane	53	ug/L	1	SW8260B	06/03/14 22:18	WAT	96-18-4	1
n-Propylbenzene	53	ug/L	1	SW8260B	06/03/14 22:18	WAT	103-65-1	1
Bromobenzene	54	ug/L	1	SW8260B	06/03/14 22:18	WAT	108-86-1	1
1,3,5-Trimethylbenzene	53	ug/L	1	SW8260B	06/03/14 22:18	WAT	108-67-8	1
tert-Butylbenzene	54	ug/L	1	SW8260B	06/03/14 22:18	WAT	98-06-6	1
1,2,4-Trimethylbenzene	54	ug/L	1	SW8260B	06/03/14 22:18	WAT	95-63-6	1
sec-Butylbenzene	50	ug/L	1	SW8260B	06/03/14 22:18	WAT	135-98-8	1
p-Isopropyltoluene	50	ug/L	5	SW8260B	06/03/14 22:18	WAT	99-87-6	1
1,3-Dichlorobenzene	49	ug/L	1	SW8260B	06/03/14 22:18	WAT	541-73-1	1

1-Spiked at 50ug/l.



Analytical Laboratory Report

Lab Sample ID: S61230.07 (continued)

Sample Tag: MW-11 (05232014) MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,4-Dichlorobenzene	49	ug/L	1	SW8260B	06/03/14 22:18	WAT	106-46-7	1
1,2-Dichlorobenzene	50	ug/L	1	SW8260B	06/03/14 22:18	WAT	95-50-1	1
1,2,3-Trimethylbenzene	48	ug/L	1	SW8260B	06/03/14 22:18	WAT	526-73-8	1
n-Butylbenzene	49	ug/L	1	SW8260B	06/03/14 22:18	WAT	104-51-8	1
Hexachloroethane	47	ug/L	5	SW8260B	06/03/14 22:18	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	51	ug/L	5	SW8260B	06/03/14 22:18	WAT	96-12-8	1
1,2,4-Trichlorobenzene	53	ug/L	5	SW8260B	06/03/14 22:18	WAT	120-82-1	1
1,2,3-Trichlorobenzene	55	ug/L	5	SW8260B	06/03/14 22:18	WAT	87-61-6	1
Naphthalene	60	ug/L	5	SW8260B	06/03/14 22:18	WAT	91-20-3	1
2-Methylnaphthalene	69	ug/L	5	SW8260B	06/03/14 22:18	WAT	91-57-6	1

1-Spiked at 50ug/l.



Analytical Laboratory Report

Lab Sample ID: S61230.08
Sample Tag: MW-11 (05232014) MSD
Collected Date/Time: 05/23/2014 10:50
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.6	IR
2	1L Amber	None	Yes	5.6	IR
1	125ml Plastic	HNO3	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:30	PER		
pH check for VOCs	<2	STD Units		N/A	06/04/14 10:27	LBR		
PNA Extraction	Completed			SW3510C	05/30/14 15:04	EMR		

Metals

Lead, Dissolved	0.240	mg/L	0.003	E200.8	05/29/14 14:44	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	41	ug/L	5	SW8270C	06/01/14 17:45	JGH	83-32-9	1
Acenaphthylene	40	ug/L	5	SW8270C	06/01/14 17:45	JGH	208-96-8	1
Anthracene	40	ug/L	5	SW8270C	06/01/14 17:45	JGH	120-12-7	1
Benzo(a)anthracene	37	ug/L	1	SW8270C	06/01/14 17:45	JGH	56-55-3	1
Benzo(a)pyrene	40	ug/L	1	SW8270C	06/01/14 17:45	JGH	50-32-8	1
Benzo(b)fluoranthene	43	ug/L	1	SW8270C	06/01/14 17:45	JGH	205-99-2	1
Benzo(k)fluoranthene	43	ug/L	1	SW8270C	06/01/14 17:45	JGH	207-08-9	1
Benzo(ghi)perylene	29	ug/L	1	SW8270C	06/01/14 17:45	JGH	191-24-2	1
Chrysene	41	ug/L	1	SW8270C	06/01/14 17:45	JGH	218-01-9	1
Dibenzo(ah)anthracene	36	ug/L	2	SW8270C	06/01/14 17:45	JGH	53-70-3	1
Fluoranthene	42	ug/L	1	SW8270C	06/01/14 17:45	JGH	206-44-0	1
Fluorene	41	ug/L	5	SW8270C	06/01/14 17:45	JGH	86-73-7	1
Indeno(1,2,3-cd)pyrene	34	ug/L	2	SW8270C	06/01/14 17:45	JGH	193-39-5	1
Naphthalene	41	ug/L	5	SW8270C	06/01/14 17:45	JGH	91-20-3	1
Phenanthrene	42	ug/L	2	SW8270C	06/01/14 17:45	JGH	85-01-8	1
Pyrene	38	ug/L	5	SW8270C	06/01/14 17:45	JGH	129-00-0	1
2-Methylnaphthalene	42	ug/L	5	SW8270C	06/01/14 17:45	JGH	91-57-6	1
1-Methylnaphthalene	42	ug/L	5	SW8270C	06/01/14 17:45	JGH	90-12-0	1

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	43	ug/L	10	SW8260B	06/03/14 22:40	WAT	60-29-7	2
Acetone	Not detected	ug/L	50	SW8260B	06/03/14 22:40	WAT	67-64-1	2
Methyl iodide	50	ug/L	1	SW8260B	06/03/14 22:40	WAT	74-88-4	2
Carbon disulfide	51	ug/L	5	SW8260B	06/03/14 22:40	WAT	75-15-0	2
tert-Methyl butyl ether (MTBE)	50	ug/L	5	SW8260B	06/03/14 22:40	WAT	1634-04-4	2
Acrylonitrile	51	ug/L	2	SW8260B	06/03/14 22:40	WAT	107-13-1	2
2-Butanone (MEK)	48	ug/L	25	SW8260B	06/03/14 22:40	WAT	78-93-3	2
Dichlorodifluoromethane	53	ug/L	5	SW8260B	06/03/14 22:40	WAT	75-71-8	2
Chloromethane	54	ug/L	5	SW8260B	06/03/14 22:40	WAT	74-87-3	2

1-Spiked at 50ug/L

2-Spiked at 50ug/L.



Analytical Laboratory Report

Lab Sample ID: S61230.08 (continued)

Sample Tag: MW-11 (05232014) MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Vinyl chloride	49	ug/L	1	SW8260B	06/03/14 22:40	WAT	75-01-4	1
Bromomethane	52	ug/L	5	SW8260B	06/03/14 22:40	WAT	74-83-9	1
Chloroethane	50	ug/L	5	SW8260B	06/03/14 22:40	WAT	75-00-3	1
Trichlorofluoromethane	51	ug/L	1	SW8260B	06/03/14 22:40	WAT	75-69-4	1
1,1-Dichloroethene	50	ug/L	1	SW8260B	06/03/14 22:40	WAT	75-35-4	1
Methylene chloride	51	ug/L	5	SW8260B	06/03/14 22:40	WAT	75-09-2	1
trans-1,2-Dichloroethene	53	ug/L	1	SW8260B	06/03/14 22:40	WAT	156-60-5	1
1,1-Dichloroethane	53	ug/L	1	SW8260B	06/03/14 22:40	WAT	75-34-3	1
cis-1,2-Dichloroethene	53	ug/L	1	SW8260B	06/03/14 22:40	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	06/03/14 22:40	WAT	109-99-9	1
Chloroform	52	ug/L	1	SW8260B	06/03/14 22:40	WAT	67-66-3	1
Bromochloromethane	52	ug/L	1	SW8260B	06/03/14 22:40	WAT	74-97-5	1
1,1,1-Trichloroethane	56	ug/L	1	SW8260B	06/03/14 22:40	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	57	ug/L	50	SW8260B	06/03/14 22:40	WAT	108-10-1	1
2-Hexanone	53	ug/L	50	SW8260B	06/03/14 22:40	WAT	591-78-6	1
Carbon tetrachloride	51	ug/L	1	SW8260B	06/03/14 22:40	WAT	56-23-5	1
Benzene	53	ug/L	1	SW8260B	06/03/14 22:40	WAT	71-43-2	1
1,2-Dichloroethane	51	ug/L	1	SW8260B	06/03/14 22:40	WAT	107-06-2	1
Trichloroethene	54	ug/L	1	SW8260B	06/03/14 22:40	WAT	79-01-6	1
1,2-Dichloropropane	54	ug/L	1	SW8260B	06/03/14 22:40	WAT	78-87-5	1
Bromodichloromethane	50	ug/L	1	SW8260B	06/03/14 22:40	WAT	75-27-4	1
Dibromomethane	55	ug/L	5	SW8260B	06/03/14 22:40	WAT	74-95-3	1
cis-1,3-Dichloropropene	48	ug/L	1	SW8260B	06/03/14 22:40	WAT	10061-01-5	1
Toluene	52	ug/L	1	SW8260B	06/03/14 22:40	WAT	108-88-3	1
trans-1,3-Dichloropropene	47	ug/L	1	SW8260B	06/03/14 22:40	WAT	10061-02-6	1
1,1,2-Trichloroethane	52	ug/L	1	SW8260B	06/03/14 22:40	WAT	79-00-5	1
Tetrachloroethene	56	ug/L	1	SW8260B	06/03/14 22:40	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	41	ug/L	1	SW8260B	06/03/14 22:40	WAT	110-57-6	1
Dibromochloromethane	49	ug/L	5	SW8260B	06/03/14 22:40	WAT	124-48-1	1
1,2-Dibromoethane	53	ug/L	1	SW8260B	06/03/14 22:40	WAT	106-93-4	1
Chlorobenzene	52	ug/L	1	SW8260B	06/03/14 22:40	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	57	ug/L	1	SW8260B	06/03/14 22:40	WAT	630-20-6	1
Ethylbenzene	53	ug/L	1	SW8260B	06/03/14 22:40	WAT	100-41-4	1
p,m-Xylene	104	ug/L	2	SW8260B	06/03/14 22:40	WAT		1
o-Xylene	52	ug/L	1	SW8260B	06/03/14 22:40	WAT	95-47-6	1
Styrene	52	ug/L	1	SW8260B	06/03/14 22:40	WAT	100-42-5	1
Isopropylbenzene	54	ug/L	5	SW8260B	06/03/14 22:40	WAT	98-82-8	1
Bromoform	49	ug/L	1	SW8260B	06/03/14 22:40	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	53	ug/L	1	SW8260B	06/03/14 22:40	WAT	79-34-5	1
1,2,3-Trichloropropane	51	ug/L	1	SW8260B	06/03/14 22:40	WAT	96-18-4	1
n-Propylbenzene	54	ug/L	1	SW8260B	06/03/14 22:40	WAT	103-65-1	1
Bromobenzene	54	ug/L	1	SW8260B	06/03/14 22:40	WAT	108-86-1	1
1,3,5-Trimethylbenzene	54	ug/L	1	SW8260B	06/03/14 22:40	WAT	108-67-8	1
tert-Butylbenzene	53	ug/L	1	SW8260B	06/03/14 22:40	WAT	98-06-6	1
1,2,4-Trimethylbenzene	53	ug/L	1	SW8260B	06/03/14 22:40	WAT	95-63-6	1
sec-Butylbenzene	51	ug/L	1	SW8260B	06/03/14 22:40	WAT	135-98-8	1
p-Isopropyltoluene	51	ug/L	5	SW8260B	06/03/14 22:40	WAT	99-87-6	1
1,3-Dichlorobenzene	51	ug/L	1	SW8260B	06/03/14 22:40	WAT	541-73-1	1

1-Spiked at 50ug/l.



Analytical Laboratory Report

Lab Sample ID: S61230.08 (continued)

Sample Tag: MW-11 (05232014) MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,4-Dichlorobenzene	51	ug/L	1	SW8260B	06/03/14 22:40	WAT	106-46-7	1
1,2-Dichlorobenzene	52	ug/L	1	SW8260B	06/03/14 22:40	WAT	95-50-1	1
1,2,3-Trimethylbenzene	50	ug/L	1	SW8260B	06/03/14 22:40	WAT	526-73-8	1
n-Butylbenzene	50	ug/L	1	SW8260B	06/03/14 22:40	WAT	104-51-8	1
Hexachloroethane	49	ug/L	5	SW8260B	06/03/14 22:40	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	53	ug/L	5	SW8260B	06/03/14 22:40	WAT	96-12-8	1
1,2,4-Trichlorobenzene	55	ug/L	5	SW8260B	06/03/14 22:40	WAT	120-82-1	1
1,2,3-Trichlorobenzene	57	ug/L	5	SW8260B	06/03/14 22:40	WAT	87-61-6	1
Naphthalene	61	ug/L	5	SW8260B	06/03/14 22:40	WAT	91-20-3	1
2-Methylnaphthalene	74	ug/L	5	SW8260B	06/03/14 22:40	WAT	91-57-6	1

1-Spiked at 50ug/l.



Analytical Laboratory Report

Lab Sample ID: S61230.09
Sample Tag: SS-3 (05232014)
Collected Date/Time: 05/23/2014 11:40
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.6	IR
2	1L Amber	None	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	06/04/14 10:27	LBR		
PNA Extraction	Completed			SW3510C	05/30/14 15:04	EMR		

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	06/01/14 18:08	JGH	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	06/01/14 18:08	JGH	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	06/01/14 18:08	JGH	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	06/01/14 18:08	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	06/01/14 18:08	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 18:08	JGH	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 18:08	JGH	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	06/01/14 18:08	JGH	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	06/01/14 18:08	JGH	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	06/01/14 18:08	JGH	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 18:08	JGH	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	06/01/14 18:08	JGH	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	06/01/14 18:08	JGH	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	06/01/14 18:08	JGH	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	06/01/14 18:08	JGH	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	06/01/14 18:08	JGH	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	06/01/14 18:08	JGH	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	06/01/14 18:08	JGH	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	06/03/14 16:27	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	06/03/14 16:27	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	06/03/14 16:27	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	06/03/14 16:27	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	06/03/14 16:27	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	06/03/14 16:27	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	06/03/14 16:27	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	06/03/14 16:27	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	06/03/14 16:27	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	06/03/14 16:27	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	06/03/14 16:27	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	156-60-5	



Analytical Laboratory Report

Lab Sample ID: S61230.09 (continued)

Sample Tag: SS-3 (05232014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	06/03/14 16:27	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	06/03/14 16:27	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	06/03/14 16:27	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	06/03/14 16:27	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	06/03/14 16:27	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	06/03/14 16:27	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	06/03/14 16:27	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	75-25-2	
1,1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	06/03/14 16:27	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:27	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	06/03/14 16:27	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	06/03/14 16:27	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	06/03/14 16:27	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	06/03/14 16:27	WAT	87-61-6	



Analytical Laboratory Report

Lab Sample ID: S61230.09 (continued)

Sample Tag: SS-3 (05232014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Naphthalene	Not detected	ug/L	5	SW8260B	06/03/14 16:27	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	06/03/14 16:27	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61230.10
Sample Tag: SS-4 (05232014)
Collected Date/Time: 05/23/2014 12:00
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.6	IR
2	1L Amber	None	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	06/04/14 10:27	LBR		
PNA Extraction	Completed			SW3510C	05/30/14 15:04	EMR		

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	06/01/14 18:30	JGH	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	06/01/14 18:30	JGH	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	06/01/14 18:30	JGH	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	06/01/14 18:30	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	06/01/14 18:30	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 18:30	JGH	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 18:30	JGH	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	06/01/14 18:30	JGH	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	06/01/14 18:30	JGH	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	06/01/14 18:30	JGH	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 18:30	JGH	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	06/01/14 18:30	JGH	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	06/01/14 18:30	JGH	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	06/01/14 18:30	JGH	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	06/01/14 18:30	JGH	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	06/01/14 18:30	JGH	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	06/01/14 18:30	JGH	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	06/01/14 18:30	JGH	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	06/03/14 16:49	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	06/03/14 16:49	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	06/03/14 16:49	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	06/03/14 16:49	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	06/03/14 16:49	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	06/03/14 16:49	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	06/03/14 16:49	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	06/03/14 16:49	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	06/03/14 16:49	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	06/03/14 16:49	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	06/03/14 16:49	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	156-60-5	



Analytical Laboratory Report

Lab Sample ID: S61230.10 (continued)

Sample Tag: SS-4 (05232014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	06/03/14 16:49	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	06/03/14 16:49	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	06/03/14 16:49	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	06/03/14 16:49	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	06/03/14 16:49	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	06/03/14 16:49	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	06/03/14 16:49	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	75-25-2	
1,1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	06/03/14 16:49	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 16:49	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	06/03/14 16:49	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	06/03/14 16:49	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	06/03/14 16:49	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	06/03/14 16:49	WAT	87-61-6	



Analytical Laboratory Report

Lab Sample ID: S61230.10 (continued)

Sample Tag: SS-4 (05232014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Naphthalene	Not detected	ug/L	5	SW8260B	06/03/14 16:49	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	06/03/14 16:49	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61230.11
Sample Tag: SS-5 (05232014)
Collected Date/Time: 05/23/2014 12:30
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.6	IR
2	1L Amber	None	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	06/04/14 10:27	LBR		
PNA Extraction	Completed			SW3510C	05/30/14 15:04	EMR		

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	06/01/14 18:53	JGH	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	06/01/14 18:53	JGH	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	06/01/14 18:53	JGH	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	06/01/14 18:53	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	06/01/14 18:53	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 18:53	JGH	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 18:53	JGH	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	06/01/14 18:53	JGH	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	06/01/14 18:53	JGH	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	06/01/14 18:53	JGH	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 18:53	JGH	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	06/01/14 18:53	JGH	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	06/01/14 18:53	JGH	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	06/01/14 18:53	JGH	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	06/01/14 18:53	JGH	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	06/01/14 18:53	JGH	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	06/01/14 18:53	JGH	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	06/01/14 18:53	JGH	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	06/03/14 17:11	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	06/03/14 17:11	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	06/03/14 17:11	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	06/03/14 17:11	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	06/03/14 17:11	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	06/03/14 17:11	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	06/03/14 17:11	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	06/03/14 17:11	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	06/03/14 17:11	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	06/03/14 17:11	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	06/03/14 17:11	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	156-60-5	



Analytical Laboratory Report

Lab Sample ID: S61230.11 (continued)

Sample Tag: SS-5 (05232014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	06/03/14 17:11	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	06/03/14 17:11	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	06/03/14 17:11	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	107-06-2	
Trichloroethene	2	ug/L	1	SW8260B	06/03/14 17:11	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	06/03/14 17:11	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	06/03/14 17:11	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	06/03/14 17:11	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	06/03/14 17:11	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	75-25-2	
1,1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	06/03/14 17:11	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:11	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	06/03/14 17:11	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	06/03/14 17:11	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	06/03/14 17:11	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	06/03/14 17:11	WAT	87-61-6	



Analytical Laboratory Report

Lab Sample ID: S61230.11 (continued)

Sample Tag: SS-5 (05232014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Naphthalene	Not detected	ug/L	5	SW8260B	06/03/14 17:11	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	06/03/14 17:11	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61230.12
Sample Tag: MW-19 (05232014)
Collected Date/Time: 05/23/2014 08:58
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.6	IR
2	1L Amber	None	Yes	5.6	IR
1	125ml Plastic	HNO3	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:30	PER		
pH check for VOCs	<2	STD Units		N/A	06/04/14 10:27	LBR		
PNA Extraction	Completed			SW3510C	05/30/14 15:04	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:45	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	06/01/14 19:16	JGH	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	06/01/14 19:16	JGH	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	06/01/14 19:16	JGH	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	06/01/14 19:16	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	06/01/14 19:16	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 19:16	JGH	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 19:16	JGH	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	06/01/14 19:16	JGH	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	06/01/14 19:16	JGH	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	06/01/14 19:16	JGH	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 19:16	JGH	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	06/01/14 19:16	JGH	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	06/01/14 19:16	JGH	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	06/01/14 19:16	JGH	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	06/01/14 19:16	JGH	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	06/01/14 19:16	JGH	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	06/01/14 19:16	JGH	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	06/01/14 19:16	JGH	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	06/03/14 17:33	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	06/03/14 17:33	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	06/03/14 17:33	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	06/03/14 17:33	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	06/03/14 17:33	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	06/03/14 17:33	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	06/03/14 17:33	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	06/03/14 17:33	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	06/03/14 17:33	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61230.12 (continued)

Sample Tag: MW-19 (05232014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	06/03/14 17:33	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	06/03/14 17:33	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	06/03/14 17:33	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	06/03/14 17:33	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	06/03/14 17:33	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	06/03/14 17:33	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	06/03/14 17:33	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	06/03/14 17:33	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	06/03/14 17:33	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	06/03/14 17:33	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61230.12 (continued)

Sample Tag: MW-19 (05232014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	06/03/14 17:33	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	06/03/14 17:33	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	06/03/14 17:33	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	06/03/14 17:33	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	06/03/14 17:33	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	06/03/14 17:33	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	06/03/14 17:33	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61230.13
Sample Tag: MW-26 (05232014)
Collected Date/Time: 05/23/2014 10:09
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.6	IR
2	1L Amber	None	Yes	5.6	IR
1	125ml Plastic	HNO3	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	05/29/14 11:30	PER		
pH check for VOCs	<2	STD Units		N/A	06/04/14 10:27	LBR		
PNA Extraction	Completed			SW3510C	05/30/14 15:04	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:46	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	06/01/14 19:39	JGH	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	06/01/14 19:39	JGH	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	06/01/14 19:39	JGH	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	06/01/14 19:39	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	06/01/14 19:39	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 19:39	JGH	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 19:39	JGH	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	06/01/14 19:39	JGH	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	06/01/14 19:39	JGH	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	06/01/14 19:39	JGH	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 19:39	JGH	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	06/01/14 19:39	JGH	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	06/01/14 19:39	JGH	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	06/01/14 19:39	JGH	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	06/01/14 19:39	JGH	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	06/01/14 19:39	JGH	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	06/01/14 19:39	JGH	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	06/01/14 19:39	JGH	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	500	SW8260B	06/05/14 22:45	WAT	60-29-7	Y
Acetone	Not detected	ug/L	2,500	SW8260B	06/05/14 22:45	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	300	SW8260B	06/05/14 22:45	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	300	SW8260B	06/05/14 22:45	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	100	SW8260B	06/05/14 22:45	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	1,300	SW8260B	06/05/14 22:45	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	300	SW8260B	06/05/14 22:45	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	300	SW8260B	06/05/14 22:45	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	75-01-4	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S61230.13 (continued)

Sample Tag: MW-26 (05232014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Bromomethane	Not detected	ug/L	300	SW8260B	06/05/14 22:45	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	300	SW8260B	06/05/14 22:45	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	300	SW8260B	06/05/14 22:45	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	4,500	SW8260B	06/05/14 22:45	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	2,500	SW8260B	06/05/14 22:45	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	2,500	SW8260B	06/05/14 22:45	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	56-23-5	Y
Benzene	2,450	ug/L	50	SW8260B	06/05/14 22:45	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	300	SW8260B	06/05/14 22:45	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	10061-01-5	Y
Toluene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	300	SW8260B	06/05/14 22:45	WAT	124-48-1	Y
1,2-Dibromoethane	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	630-20-6	Y
Ethylbenzene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	100-41-4	Y
p,m-Xylene	Not detected	ug/L	100	SW8260B	06/05/14 22:45	WAT		Y
o-Xylene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	95-47-6	Y
Styrene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	300	SW8260B	06/05/14 22:45	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	96-18-4	Y
n-Propylbenzene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	300	SW8260B	06/05/14 22:45	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	106-46-7	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S61230.13 (continued)

Sample Tag: MW-26 (05232014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dichlorobenzene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	50	SW8260B	06/05/14 22:45	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	300	SW8260B	06/05/14 22:45	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	300	SW8260B	06/05/14 22:45	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	300	SW8260B	06/05/14 22:45	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	300	SW8260B	06/05/14 22:45	WAT	87-61-6	Y
Naphthalene	Not detected	ug/L	300	SW8260B	06/05/14 22:45	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	300	SW8260B	06/05/14 22:45	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S61230.14
Sample Tag: MW-9 (05232014)
Collected Date/Time: 05/23/2014 11:35
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.6	IR
2	1L Amber	None	Yes	5.6	IR
1	125ml Plastic	HNO3	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:30	PER		
pH check for VOCs	<2	STD Units		N/A	06/04/14 10:27	LBR		
PNA Extraction	Completed			SW3510C	05/30/14 15:04	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:47	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	06/01/14 20:01	JGH	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	06/01/14 20:01	JGH	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	06/01/14 20:01	JGH	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	06/01/14 20:01	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	06/01/14 20:01	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 20:01	JGH	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 20:01	JGH	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	06/01/14 20:01	JGH	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	06/01/14 20:01	JGH	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	06/01/14 20:01	JGH	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 20:01	JGH	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	06/01/14 20:01	JGH	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	06/01/14 20:01	JGH	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	06/01/14 20:01	JGH	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	06/01/14 20:01	JGH	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	06/01/14 20:01	JGH	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	06/01/14 20:01	JGH	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	06/01/14 20:01	JGH	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	06/04/14 15:02	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	06/04/14 15:02	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	06/04/14 15:02	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	06/04/14 15:02	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	06/04/14 15:02	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	06/04/14 15:02	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	06/04/14 15:02	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	06/04/14 15:02	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	06/04/14 15:02	WAT	74-83-9	



Analytical Laboratory Report

Lab Sample ID: S61230.14 (continued)

Sample Tag: MW-9 (05232014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	06/04/14 15:02	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	06/04/14 15:02	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	06/04/14 15:02	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	06/04/14 15:02	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	06/04/14 15:02	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	06/04/14 15:02	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	06/04/14 15:02	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	06/04/14 15:02	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	06/04/14 15:02	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	06/04/14 15:02	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	526-73-8	



Analytical Laboratory Report

Lab Sample ID: S61230.14 (continued)

Sample Tag: MW-9 (05232014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	06/04/14 15:02	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	06/04/14 15:02	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	06/04/14 15:02	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	06/04/14 15:02	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	06/04/14 15:02	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	06/04/14 15:02	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	06/04/14 15:02	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S61230.15
Sample Tag: DUP-03 (05232014)
Collected Date/Time: 05/23/2014 00:01
Matrix: Groundwater
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.6	IR
2	1L Amber	None	Yes	5.6	IR
1	125ml Plastic	HNO3	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/29/14 11:30	PER		
pH check for VOCs	<2	STD Units		N/A	06/04/14 10:27	LBR		
PNA Extraction	Completed			SW3510C	05/30/14 15:04	EMR		

Metals

Lead, Dissolved	Not detected	mg/L	0.003	E200.8	05/29/14 14:48	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	06/01/14 20:24	JGH	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	06/01/14 20:24	JGH	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	06/01/14 20:24	JGH	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	06/01/14 20:24	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	06/01/14 20:24	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 20:24	JGH	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 20:24	JGH	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	06/01/14 20:24	JGH	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	06/01/14 20:24	JGH	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	06/01/14 20:24	JGH	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	06/01/14 20:24	JGH	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	06/01/14 20:24	JGH	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	06/01/14 20:24	JGH	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	06/01/14 20:24	JGH	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	06/01/14 20:24	JGH	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	06/01/14 20:24	JGH	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	06/01/14 20:24	JGH	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	06/01/14 20:24	JGH	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	500	SW8260B	06/05/14 23:07	WAT	60-29-7	Y
Acetone	Not detected	ug/L	2,500	SW8260B	06/05/14 23:07	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	300	SW8260B	06/05/14 23:07	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	300	SW8260B	06/05/14 23:07	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	100	SW8260B	06/05/14 23:07	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	1,300	SW8260B	06/05/14 23:07	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	300	SW8260B	06/05/14 23:07	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	300	SW8260B	06/05/14 23:07	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	75-01-4	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S61230.15 (continued)

Sample Tag: DUP-03 (05232014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Bromomethane	Not detected	ug/L	300	SW8260B	06/05/14 23:07	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	300	SW8260B	06/05/14 23:07	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	300	SW8260B	06/05/14 23:07	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	4,500	SW8260B	06/05/14 23:07	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	2,500	SW8260B	06/05/14 23:07	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	2,500	SW8260B	06/05/14 23:07	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	56-23-5	Y
Benzene	2,530	ug/L	50	SW8260B	06/05/14 23:07	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	300	SW8260B	06/05/14 23:07	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	10061-01-5	Y
Toluene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	300	SW8260B	06/05/14 23:07	WAT	124-48-1	Y
1,2-Dibromoethane	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	630-20-6	Y
Ethylbenzene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	100-41-4	Y
p,m-Xylene	Not detected	ug/L	100	SW8260B	06/05/14 23:07	WAT		Y
o-Xylene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	95-47-6	Y
Styrene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	300	SW8260B	06/05/14 23:07	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	96-18-4	Y
n-Propylbenzene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	300	SW8260B	06/05/14 23:07	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	106-46-7	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S61230.15 (continued)

Sample Tag: DUP-03 (05232014)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dichlorobenzene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	50	SW8260B	06/05/14 23:07	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	300	SW8260B	06/05/14 23:07	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	300	SW8260B	06/05/14 23:07	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	300	SW8260B	06/05/14 23:07	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	300	SW8260B	06/05/14 23:07	WAT	87-61-6	Y
Naphthalene	Not detected	ug/L	300	SW8260B	06/05/14 23:07	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	300	SW8260B	06/05/14 23:07	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration

ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of 1

Lab Work Order #

Send Results to:	Contact & Company Name:	Telephone:	Preservative	B	D	C																							
	Address:	Fax:	Filtered (✓)			✓																							
	City	State	Zip	E-mail Address:	# of Containers	3	2	1																					
	Sample Information				1	2	3																						
Project Name & Location (City, State):		Project #:		PARAMETER ANALYSIS & METHOD																									
Sample Printed Name:		Sample Signature:																											
Sample ID		Collection Date		Time		Type (✓)		Matrix												REMARKS									
MW-8(05222014)		5/22		1445		✓		GW																					
MW-20(05222014)		5/22		1540		✓		GW																					
MW-23(05222014)		5/22		1400		✓		GW																					
MW-25(05222014)		5/22		1505		✓		GW																					
MW-27(05232014)		5/23		0950		✓		GW																					
MW-11(05232014)		5/23		1050		✓		GW												MS/MSD									
SS-3(05232014)		5/23		1140		✓		GW																					
SS-4(05232014)		5/23		1200		✓		GW																					
SS-5(05232014)		5/23		1230		✓		GW																					
MW-19(05232014)		5/23		0858		✓		GW																					
MW-26(05232014)		5/23		1004		✓		GW																					
MW-9(05232014)		5/23		1135		✓		GW																					
DUP-03(05232014)		5/23		—		✓		GW																					
Special Instructions/Comments:																				Special QA/QC Instructions(✓):									
Laboratory Information and Receipt										Relinquished By					Received By					Relinquished By					Laboratory Received By				
Lab Name: Merit										Printed Name: Amy O'Neil					Printed Name: Arcadis Fridge					Printed Name: Arcadis Fridge					Printed Name: Isiah Marshall				
Cooler Custody Seal (✓)										Signature: [Signature]					Signature: Fridge					Signature: Fridge					Signature: Isiah Marshall				
Specify Turnaround Requirements:										Firm: Arcadis					Firm/Courier: Arcadis					Firm/Courier: ARCADIS					Firm: Merit				
Shipping Tracking #:										Date/Time: 5/23/14 1425					Date/Time: 5/23/14 1425					Date/Time: 5/27/14 900					Date/Time: 5/27/14 900				

Received by Isiah Marshall
5/27/14 1000
Merit
5/27/14 1000