

January 9, 2018

Mr. Paul Bucholtz

Michigan Department of Environmental Quality
Remediation and Redevelopment Division
Constitution Hall
525 West Allegan Street
Lansing, MI 48909

RE: 2017 Annual Groundwater Sampling Report
RACER Trust Hemphill Road Industrial Land, Burton, Michigan
FILE: 15388 / 64740

Dear **Mr. Bucholtz**:

This letter serves as a Summary Report for the semiannual 2017 groundwater sampling events conducted in April and October 2017 at the Revitalizing Auto Communities Environmental Response (RACER) Trust Hemphill Road Industrial Land (HRIL) facility located in Burton, Michigan (Site). Semiannual (SA) groundwater sampling was conducted to document groundwater quality for the Site in accordance with the MDEQ-approved Groundwater Investigation Work Plan dated September 2010.

GROUNDWATER SAMPLING

The semiannual 2017 groundwater sampling was performed utilizing the following sampling protocols.

Prior to sampling, water level measurements were collected from monitoring wells at the Site and the offsite wells. Monitoring well locations are shown on [Figure 1](#). Monitoring well construction details are listed on [Table 1](#) and groundwater elevation data is included on [Table 2](#). The groundwater elevations observed during the sampling events are within the historic range of static groundwater measurements for the Site. As reported in the June 2011 Groundwater Investigation Report for the Site, based on the distance between wells and the Site geology and previous waste disposal, the geologic units observed at the Site do not appear continuous across the Site and do not appear to be connected. Therefore, as previously reported, the groundwater flow direction for the Site cannot be specifically determined based on groundwater elevations in the monitoring wells and discontinuous geology and waste-fill materials at the Site.

Groundwater elevations are depicted on [Figure 2](#) (April 2017) and [Figure 3](#) (October 2017).

Groundwater samples for the semiannual 2017 sampling events were collected on April 10 and 11, 2017 (first SA) and October 17 and 18, 2017 (second SA). The first SA event and the second SA event samples were collected from nine on-site monitoring wells and five off-site monitoring wells. The nine on-site monitoring wells are: OBG MW-1S, OBG MW-2S, OBG MW-2D, OBG MW-3S, OBG MW-5S, OBG MW-6S, OBG MW-6D, OBG MW-7S, and OBG MW-7D. The five off-site monitoring wells are: OBG OS MW-1, OBG OS MW-2, OBG OS MW-3, OBG OS MW-4, and OBG OS MW-5.

Samples were not collected from wells MW-401 and MW-403 (installed by others) based on the screen lengths of these wells being over 10 ft in length. Also, groundwater samples were not collected during either event from OBG MW-4S based on the presence of Light Non-Aqueous Phase Liquid (LNAPL) in this well or wells OBG MW-8, OBG MW-9, OBG MW-10, and OBG MW-11 as these were installed in June 2016 for LNAPL assessment. Due to the highly



viscous LNAPL heavily coating the interface probe of the measuring instrument, it was difficult to acquire an accurate measurement of the LNAPL thickness.

Groundwater sampling was performed in accordance with MDEQ Operational Memorandum No.2-Attachment 5 for low-flow sampling. Low-flow groundwater sampling was performed using polyethylene sample tubing lowered approximately to the midpoint of the well screen and connected to a peristaltic pump. The tubing was then attached to a flow-through cell attached to a physical parameter measurement instrument capable of measuring temperature, conductivity, pH, dissolved oxygen (DO), and oxidation-reduction potential (ORP). Turbidity was also measured with a Hach® colorimeter.

Once the pump was turned on, the well was purged at a rate that produced less than 0.3 ft of drawdown in the well, except for well OBG MW-1S during the first SA event and for OBG MW-2S during the second SA event. The purge rate was maintained at a minimum of 100 milliliters per minute [ml/min], however, a drawdown of 0.39 ft (OBG MW-1S) and 0.54 ft (OBG MW-2S) was observed. Drawdowns were confirmed by the measurement of water levels in the monitoring well during purging.

Measurements of water quality (*i.e.*, physical parameters) were recorded on a groundwater sampling log. Purging continued until the water quality parameters stabilized (within the guidelines of the USEPA Low Stress Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells) over a 5-minute period. If turbidity readings did not stabilize below readings of 20 nephelometric turbidity units (NTUs), a dissolved metals sample was collected from the well. Once stabilized, the pumping rate was reduced and the flow-through cell was disconnected. Samples were collected directly into laboratory supplied containers. The sample container selection and preservation techniques followed MDEQ Operational Memorandum No.2-Attachment 4.

Groundwater sample logs are included in [Exhibit A](#).

The samples were labeled, packed on ice, and shipped via courier under routine chain-of-custody protocols to Merit Laboratories, Inc. (Merit) of East Lansing, Michigan. The groundwater samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260, and total metals (arsenic, barium, lead, selenium, and zinc) by EPA Method 200.8.

Quality Assurance/Quality Control (QA/QC) samples were collected in accordance with MDEQ Operational Memorandum No.2-Attachment 5. QA/QC samples included a blind duplicate, co-located sample; field blank, and matrix spike/matrix spike duplicate (MS/MSD) set. One trip blank was submitted with each cooler shipment containing samples collected for VOC analyses.

GROUNDWATER SAMPLING RESULTS

FIRST SEMIANNUAL (SA) SAMPLING EVENT- APRIL 2017

Analytical results for the first SA event (April 2016) indicate VOCs were not detected above method detection limits, except at offsite monitoring wells OBG OS MW-4 and OBG OS MW-5. Monitoring wells OBG OS MW-4 and OBG OS MW-5 are screened in fill material.

Offsite monitoring well OBG OS MW-4 had the following detections above method detection limits:

- chlorobenzene (8 µg/l), ethylbenzene (2 µg/l), p,m-xylene (4 µg/l), o-xylene (2 µg/l), isopropylbenzene (7 µg/l), n-propylbenzene (12 µg/l), 1,3,5-trimethylbenzene (1 µg/l), 1,2,4- trimethylbenzene (6 µg/l), sec-butylbenzene (3 µg/l), 1,4-dichlorobenzene (6 µg/l), 1,2,3- trimethylbenzene (5 µg/l), n-butylbenzene (3 µg/l), naphthalene (101 µg/l), and 2-Methylnaphthalene (60 µg/l).

Offsite monitoring well OBG OS MW-5 had the following detections above method detection limits:

- chlorobenzene (14 µg/l), n-propylbenzene (2 µg/l), 1,4-dichlorobenzene (7 µg/l), and 2-methylnaphthalene (6 µg/l).

These concentrations are below the MDEQ Part 201 Generic Residential Drinking Water criteria. The analytical results for the first SA event are summarized on [Table 3](#) and the groundwater analytical data sheets are included in [Exhibit B](#).

Groundwater analytical results for inorganic analysis indicate barium, lead, selenium, and zinc were not detected above the method detection limits or detections were below the MDEQ Part 201 Generic Residential Drinking Water criteria. Turbidity levels at well OBG-MW5S, OBG-MW7S, and OBG OS MW-1 did not stabilize below 20 NTUs; therefore, a groundwater sample for dissolved metals analysis was also collected and analyzed. Historically, turbidity levels at well OBG MW-7S have been above 20 NTUs.

Analytical results for arsenic levels above the MDEQ Part 201 Generic Residential and Non-Residential Drinking Water criterion (10 µg/l) are as follows (results are total unless otherwise noted):

- onsite monitoring wells: OBG MW-2S (14 µg/l), OBG MW-2D (18 µg/l), OBG MW- 6D (19 µg/l), and OBG MW-7D (33 µg/l),
- offsite monitoring wells: OBG OS MW-1 (dissolved - 37 µg/l), OBG OS MW-2 (dissolved - 49 µg/l), and OBG OS MW-3 (16 µg/l).

A figure depicting the April 2017 groundwater results above MDEQ criteria is included as [Figure 4](#).

SECOND SEMIANNUAL SAMPLING EVENT- OCTOBER 2017

Analytical results for the second SA event (October 2017) indicate VOCs were not detected above method detection limits, except at offsite monitoring wells OBG OS MW-4 and OBG OS MW-5, which are screened in fill material.

Monitoring well OBG OS MW-4 had the following detections:

- chlorobenzene (8 µg/l), ethylbenzene (1 µg/l), p,m-xylene (3 µg/l), o-xylene (1 µg/l), isopropylbenzene 6 µg/l), n-propylbenzene (9 µg/l), 1,3,5-trimethylbenzene (1 µg/l), 1,2,4- trimethylbenzene (4 µg/l), sec-butylbenzene (2 µg/l), 1,4-dichlorobenzene (5 µg/l), 1,2,3- trimethylbenzene (4 µg/l), n-butylbenzene (1 µg/l), naphthalene (64 µg/l), and 2-methylnaphthalene (29 µg/l).

Monitoring well OBG OS MW-5 had the following detections above method detection limits:

- chlorobenzene (10 µg/l), n-propylbenzene (1 µg/l), and 1,4-dichlorobenzene (4 µg/l).

These concentrations are below the MDEQ Part 201 Generic Residential Drinking Water criteria. The analytical results for the second SA event are summarized on [Table 3](#) and the groundwater analytical data sheets are included in [Exhibit C](#).

Groundwater results for inorganic analysis indicate selenium and zinc were not detected above method detection limits or detections were below the MDEQ Part 201 Generic Residential Drinking Water criteria.

Analytical results for arsenic levels above the MDEQ Part 201 Generic Residential and Non-Residential Drinking Water criterion (10 µg/l) are as follows (results are total as all wells stabilized below 20 NTUs):

- onsite Monitoring wells: OBG MW-2S (32 µg/l), OBG MW-2D (44 µg/l), OBG MW- 6S (15 µg/l), OBG MW- 6D (19 µg/l), OBG MW- 7S (22 µg/l), and OBG MW-7D (31 µg/l),
- offsite monitoring wells: OBG OS MW-1 (33 µg/l) and OBG OS MW-2 (49 µg/l).

Analytical results for barium levels above the MDEQ Part 201 Generic Residential and Non-Residential Drinking Water criterion (2,000 µg/l) are as follows (results are total as all wells stabilized below 20 NTUs):

- offsite Monitoring well: OBG OS-MW-5 (2,040 µg/l).

Analytical results for lead levels above the MDEQ Part 201 Generic Residential and Non-Residential Drinking Water criterion (4.0 µg/l) are as follows (results are total as all wells stabilized below 20 NTUs):

- offsite Monitoring well: OBG OS-MW-2 (30 µg/l).

A figure depicting the October 2016 groundwater results above MDEQ criteria is included as **Figure 5**.

SUMMARY

The results of the 2017 semiannual groundwater sampling program are comparable to the previous results from 2016. Concentrations of arsenic were detected in samples collected from onsite and offsite wells above the MDEQ Part 201 Nonresidential Drinking Water Criteria. In addition, barium and lead concentrations were detected in offsite wells above the MDEQ Part 201 Nonresidential Drinking Water Criteria. It is anticipated that on-site exceedances will be able to be addressed with a resource use restriction for Site groundwater in the Response Activity Plan (RAP) submitted to the MDEQ on September 20, 2017, and resubmitted with a revised Request for DEQ Review of Response Activity Plan form on October 10, 2017.

Concentrations of VOCs were detected above method detection limits in samples from two offsite wells (OBG OS MW-4 and OBG OS MW-5 that are screened in fill material). These detections are below the MDEQ Part 201 Nonresidential Drinking Water Criteria.

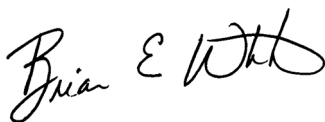
Review of the groundwater analytical data for both semiannual sampling events and historical data indicates groundwater compound concentrations at offsite wells (OBG OS MW-4 and OBG OS MW-5) are mostly different than those detected at the HRIL Site. Therefore, it is likely the impacted groundwater at the HRIL Site is not the source for groundwater impact offsite to the east.

PROPOSED FUTURE GROUNDWATER MONITORING

A semiannual groundwater sampling program is proposed for 2018. The groundwater sampling program will include collection of samples from the onsite groundwater well network at the Site, as well as offsite wells (OBG OS MW-1, OBG OS MW-2, OBG OS MW-3, OBG OS MW-4, and OBG OS MW-5). Five wells will only be gauged for the presence of LNAPL (MW-4S, OBG MW-8, OBG MW-9, OBG MW-10, and OBG MW-11). Groundwater samples will be analyzed for VOCs by EPA Method 8260, and for total and dissolved metals (arsenic, barium, lead, and selenium) by EPA Method 200.8, in accordance with the MDEQ-approved Work Plan, except for the addition of both total and dissolved metals on each sample to evaluate the effect turbidity has on the samples.

If you have questions or would like additional information, please contact David Favero at (734) 879-9525 or Clifford Yantz at (313) 333-0211.

Very truly yours,
O'BRIEN & GERE ENGINEERS, INC.



Brian E. White, PE
Senior Vice President

cc: David Favero- RACER Trust

Very truly yours,
O'BRIEN & GERE ENGINEERS, INC.



Clifford S. Yantz
Senior Project Geologist





ATTACHMENTS:

Table 1- Monitoring Well Construction Details

Table 2- Groundwater Elevation Data

Table 3- Groundwater Analytical Results- April 2017 and October 2017

Figure 1- Monitoring Well Locations

Figure 2- Groundwater Elevations – April 2017

Figure 3- Groundwater Elevations – October 2017

Figure 4- Groundwater Analytical Results- April 2017

Figure 5- Groundwater Analytical Results- October 2017

Exhibit A- Groundwater Sampling Logs – April 2017 & October 2017

Exhibit B- Groundwater Analytical Data April 2017

Exhibit C- Groundwater Analytical Data October 2017



Tables

**Table 1
Hemphill Road Industrial Land - Burton, Michigan
Monitoring Well Construction Details**

Well	Completion Date	Installed By: Consultant/ Driller	Total Well Depth *	Surface Elevation (ft amsl)	Top of Casing Elevation (ft amsl)	Casing Diameter (inches)	Screened Interval Elevations	Estimated Sand/Gravel Pack Elevations
OBG MW-1S	29-Nov-10	O'Brien & Gere / Boart Longyear	27.20	774.9	777.64	2	755.44-750.44	757.44-749.44
OBG MW-2S	30-Nov-10	O'Brien & Gere / Boart Longyear	20.30	772.9	775.33	2	760.03-755.03	762.03-754.03
OBG MW-2D	30-Nov-10	O'Brien & Gere / Boart Longyear	38.50	772.8	775.19	2	741.69-736.69	743.69-735.69
OBG MW-3	30-Nov-10	O'Brien & Gere / Boart Longyear	27.70	774.3	777.31**	2	754.54-749.54	756.54-748.54
OBG MW-4S	30-Nov-10	O'Brien & Gere / Boart Longyear	27.70	766.3	769.15	2	746.45-741.45	748.45-740.45
OBG MW-5S	1-Dec-10	O'Brien & Gere / Boart Longyear	20.30	768.5	771.00	2	755.7-750.7	757.7-749.7
OBG MW-6S	1-Dec-10	O'Brien & Gere / Boart Longyear	19.10	769.70	772.70	2	758.6-753.6	760.6-752.6
OBG MW-6D	1-Dec-10	O'Brien & Gere / Boart Longyear	44.40	769.65	772.69	2	733.29-728.29	735.29-727.29
OBG MW-7S	2-Dec-10	O'Brien & Gere / Boart Longyear	17.70	763.56	766.30	2	753.6-748.6	755.6-747.6
OBG MW-7D	2-Dec-10	O'Brien & Gere / Boart Longyear	47.80	763.55	766.36	2	723.56-718.56	725.56-717.56
OBG MW-8	9-Jun-16	O'Brien & Gere / Stock	22.46	768.14	771.21	2	759.23- 749.23	761.14-749.14
OBG MW-9	9-Jun-16	O'Brien & Gere / Stock	22.65	767.91	770.93	2	758.78-748.78	760.91-748.91
OBG MW-10	9-Jun-16	O'Brien & Gere / Stock	21.00	766.17	768.96	2	758.5-748.5	760.17- 748.17
OBG MW-11	9-Jun-16	O'Brien & Gere / Stock	20.00	772.60	775.64	2	762.6- 752.6	764.6-744.6
OBG OS MW-1	11-Nov-13	O'Brien & Gere / Cascade	30.15	774.09	776.57	2	756.42-746.42	754.42-745.42
OBG OS MW-2	11-Nov-13	O'Brien & Gere / Cascade	30.29	774.02	776.67	2	756.38-746.38	754.38-744.42
OBG OS MW-3	9-Jun-14	O'Brien & Gere / Cascade	30.29	779.78	782.89	2	762.59-752.59	764.59-751.59
OBG OS MW-4	9-Jun-14	O'Brien & Gere / Cascade	27.76	776.09	779.00	2	761.20-751.20	763.20-750.20
OBG OS MW-5	10-Jun-14	O'Brien & Gere / Cascade	28.15	776.45	779.38	2	761.18-751.18	763.18-750.18

Notes:

- 1) ft amsl - feet above mean sea level (NGVD 1929)
- 2) ft TOC - feet below Top of Casing
- 3) Wells are polyvinylchloride (PVC), schedule 40, screen slot size 0.010 inch.
- 4) * - Total well depth as measured from TOC
Elevation referenced to NGVD 1929
- 5) ** - OBG MW-3 was repaired, and the TOC resurveyed, on 9/2/2011.

Table 2
Hemphill Road Industrial Land
Burton, Michigan
Historical Groundwater Elevations

Well	Top of Casing Elevation (ft amsl)	Depth To Water 12/20/2010 (ft btoc)	Static Water Elevation 12/20/2010 (ft amsl)	Depth To Water 2/25/2011 (ft btoc)	Static Water Elevation 2/25/2011 (ft amsl)	Depth To Water 3/22/2012 (ft btoc)	Static Water Elevation 3/22/2012 (ft amsl)	Depth To Water 6/13/2012 (ft btoc)	Static Water Elevation 6/13/2012 (ft amsl)	Depth To Water 9/20/2012 (ft btoc)	Static Water Elevation 9/20/2012 (ft amsl)	Depth To Water 12/18/2012 (ft btoc)	Static Water Elevation 12/18/2012 (ft amsl)	Depth To Water 4/16/2013 (ft btoc)	Static Water Elevation 4/16/2013 (ft amsl)
OBG MW-1S	777.64	13.80	763.84	13.50	764.14	12.47	765.17	12.70	764.94	13.03	764.61	13.18	764.46	12.28	765.36
OBG MW-2S	775.33	11.59	763.74	11.02	764.31	10.41	764.92	10.45	764.88	10.26	765.07	11.03	764.30	9.76	765.57
OBG MW-2D	775.19	22.02	753.17	21.80	753.39	20.16	755.03	20.45	754.74	22.34	752.85	21.26	753.93	20.57	754.62
OBG MW-3 **	777.31	23.00	754.24	22.95	754.29	22.72	754.59	22.69	754.62	22.69	754.62	22.87	754.44	22.77	754.54
OBG MW-4S	769.15	--	--	--	--	14.30	754.85	14.55	754.60	14.52	754.63	14.6	754.57	14.35	754.80
OBG MW-5S	771.00	15.97	755.03	15.80	755.20	15.48	755.52	15.75	755.25	15.80	755.20	15.93	755.07	15.47	755.53
OBG MW-6S	772.70	14.72	757.98	14.18	758.52	13.81	758.89	14.31	758.39	14.84	757.86	14.62	758.08	12.42	760.28
OBG MW-6D	772.69	19.61	753.08	19.46	753.23	17.99	754.70	18.51	754.18	20.11	752.58	18.96	753.73	18.04	754.65
OBG MW-7S	766.30	8.68	757.62	8.10	758.20	8.12	758.18	8.36	757.94	8.59	757.71	8.37	757.93	7.26	759.04
OBG MW-7D	766.36	14.40	751.96	14.23	752.13	12.55	753.81	13.09	753.27	14.70	751.66	13.73	752.63	12.95	753.41
OBG MW-8	771.21													--	--
OBG MW-9	770.93													--	--
OBG MW-10	768.96													--	--
OBG MW-11	775.64													--	--
OBG OS MW-1	776.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OBG OS MW-2	776.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OBG OS MW-3	782.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OBG OS MW-4	779.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OBG OS MW-5	779.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

- 1) ft amsl - feet above mean sea level (NGVD 1929).
- 2) ft btoc - feet below top of casing.
- 3) --¹ denotes depth to water not collected.
- 4) ** - OBG MW-3 was repaired, and the TOC resurveyed, on 9/2/2011.
The previous TOC was 777.24.

**Table 2
Hemphill Road Industrial Land
Burton, Michigan
Historical Groundwater Elevations**

Well	Top of Casing Elevation (ft amsl)	Depth To Water 10/15/2013 (ft btoc)	Static Water Elevation 10/15/2013 (ft amsl)	Depth To Water 12/10/2013 (ft btoc)	Static Water Elevation 12/10/2013 (ft amsl)	Depth To Water 4/24/2014 (ft btoc)	Static Water Elevation 4/24/2014 (ft amsl)	Depth To Water 7/2/2014 (ft btoc)	Static Water Elevation 7/2/2014 (ft amsl)	Depth To Water 7/28/2014 (ft btoc)	Static Water Elevation 7/28/2014 (ft amsl)	Depth To Water 9/11/2014 (ft btoc)	Static Water Elevation 9/11/2014 (ft amsl)	Depth To Water 5/28/2015 (ft btoc)	Static Water Elevation 5/28/2015 (ft amsl)
OBG MW-1S	777.64	13.60	764.04	--	--	12.69	764.95	--	--	--	--	12.44	765.20	12.64	765.00
OBG MW-2S	775.33	11.48	763.85	--	--	10.32	765.01	--	--	--	--	10.29	765.04	10.59	764.74
OBG MW-2D	775.19	21.28	753.91	--	--	20.21	754.98	--	--	--	--	20.42	754.77	19.90	755.29
OBG MW-3 **	777.31	22.78	754.53	--	--	22.73	754.58	--	--	--	--	22.54	754.77	22.85	754.46
OBG MW-4S	769.15	--	--	--	--	--	--	--	--	--	--	14.6	754.58	--	--
OBG MW-5S	771.00	15.80	755.20	--	--	15.59	755.41	--	--	--	--	15.84	755.16	15.61	755.39
OBG MW-6S	772.70	14.94	757.76	--	--	13.79	758.91	--	--	--	--	14.49	758.21	14.22	758.48
OBG MW-6D	772.69	19.21	753.48	--	--	18.10	754.59	--	--	--	--	18.06	754.63	17.54	755.15
OBG MW-7S	766.30	8.85	757.45	--	--	7.81	758.49	--	--	--	--	8.37	757.93	8.25	758.05
OBG MW-7D	766.36	13.93	752.43	--	--	12.64	753.72	--	--	--	--	12.91	753.45	12.35	754.01
OBG MW-8	771.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OBG MW-9	770.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OBG MW-10	768.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OBG MW-11	775.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OBG OS MW-1	776.57	--	--	22.10	754.47	--	--	--	--	--	--	22.17	754.40	21.95	754.62
OBG OS MW-2	776.67	--	--	21.43	755.24	--	--	--	--	--	--	21.58	755.09	21.34	755.33
OBG OS MW-3	782.89	--	--	--	--	--	--	25.39	757.50	25.52	757.37	25.89	757.00	25.99	756.90
OBG OS MW-4	779.00	--	--	--	--	--	--	24.29	754.71	24.34	754.66	24.48	754.52	24.40	754.60
OBG OS MW-5	779.38	--	--	--	--	--	--	24.71	754.67	24.79	754.59	24.91	754.47	24.82	754.56

Notes:

- 1) ft amsl - feet above mean sea level (NGVD 1929).
- 2) ft btoc - feet below top of casing.
- 3) --¹ denotes depth to water not collected.
- 4) ** - OBG MW-3 was repaired, and the TOC resurveyed, on 9/2/2011.
The previous TOC was 777.24.
- 5) Water levels from newly installed wells OBG MW-8/9/10/11 collected on 9/9/2016.

**Table 2
Hemphill Road Industrial Land
Burton, Michigan
Historical Groundwater Elevations**

Well	Top of Casing Elevation (ft amsl)	Depth To Water 10/29/2015 (ft btoc)	Static Water Elevation 10/29/2015 (ft amsl)	Depth To Water 4/14/2016 (ft btoc)	Static Water Elevation 4/14/2016 (ft amsl)	Depth To Water 9/9/2016 (ft btoc)	Static Water Elevation 9/9/2016 (ft amsl)	Depth To Water 10/21/2016 (ft btoc)	Static Water Elevation 10/21/2016 (ft amsl)	Depth To Water 4/10/2016 (ft btoc)	Static Water Elevation 4/10/2016 (ft amsl)	Depth To Water 10/17/2017 (ft btoc)	Static Water Elevation 10/17/2017 (ft amsl)
OBG MW-1S	777.64	12.75	764.89	11.45	766.19	--	--	12.89	764.75	11.28	766.36	13.05	764.59
OBG MW-2S	775.33	10.77	764.56	9.16	766.17	--	--	10.38	764.95	8.83	766.50	10.93	764.40
OBG MW-2D	775.19	19.94	755.25	18.83	756.36	--	--	21.02	754.17	18.83	756.36	20.65	754.54
OBG MW-3 **	777.31	22.77	754.54	22.47	754.84	--	--	23.05	754.26	23.00	754.31	23.15	754.16
OBG MW-4S	769.15	--	--	--	--	--	--	--	--	13.90	755.25	14.55	754.60
OBG MW-5S	771.00	15.40	755.60	15.17	755.83	--	--	15.80	755.20	14.90	756.10	15.91	755.09
OBG MW-6S	772.70	14.72	757.98	12.70	760.00	--	--	14.53	758.17	11.71	760.99	14.90	757.80
OBG MW-6D	772.69	17.70	754.99	16.99	755.70	--	--	17.96	754.73	16.60	756.09	18.30	754.39
OBG MW-7S	766.30	8.43	757.87	7.27	759.03	--	--	8.14	758.16	6.70	759.60	8.17	758.13
OBG MW-7D	766.36	12.44	753.92	11.35	755.01	--	--	13.47	752.89	11.34	755.02	13.51	752.85
OBG MW-8	771.21	--	--	--	--	16.30	754.91	--	--	15.08	756.13	16.40	754.81
OBG MW-9	770.93	--	--	--	--	16.42	754.51	--	--	14.45	756.48	16.19	754.74
OBG MW-10	768.96	--	--	--	--	--	--	--	--	12.99	755.97	14.30	754.66
OBG MW-11	775.64	--	--	--	--	18.30	757.34	--	--	15.79	759.85	17.90	757.74
OBG OS MW-1	776.57	22.24	754.33	21.40	755.17	--	--	21.71	754.86	21.25	755.32	22.10	754.47
OBG OS MW-2	776.67	21.73	754.94	20.49	756.18	--	--	21.18	755.49	20.34	756.33	21.48	755.19
OBG OS MW-3	782.89	26.06	756.83	25.10	757.79	--	--	26.33	756.56	24.76	758.13	26.35	756.54
OBG OS MW-4	779.00	24.25	754.75	23.91	755.09	--	--	24.52	754.48	23.85	755.15	24.70	754.30
OBG OS MW-5	779.38	24.67	754.71	24.33	755.05	--	--	24.94	754.44	24.25	755.13	25.06	754.32

Notes:

- 1) ft amsl - feet above mean sea level (NGVD 1929).
- 2) ft btoc - feet below top of casing.
- 3) --¹ denotes depth to water not collected.
- 4) ** - OBG MW-3 was repaired, and the TOC resurveyed, on 9/2/2011.
The previous TOC was 777.24.
- 5) Water levels from newly installed wells OBG MW-8/9/10/11 collected on 9/9/2016.

Table 3
Hemphill Road Industrial Land- Burton, Michigan
Groundwater Analytical Results- April 2017

Monitoring Well Sample Date	Onsite Wells										Offsite Wells					MDEQ Part 201 Generic Criteria	
	OBG MW-1S 4/10/2017	OBG MW-2S 4/10/2017	OBG MW-2D 4/10/2017	OBG MW-3 4/11/2017	OBG MW-5S 4/10/2017	OBG MW-6S 4/10/2017	OBG MW-6D 4/10/2017	OBG MW-7S 4/10/2017	OBG MW-7D 4/10/2017	OBG OS-MW-1 4/11/2017	OBG OS-MW-2 4/11/2017	OBG OS-MW-3 4/11/2017	OBG OS-MW-4 4/11/2017	OBG OS-MW-5 4/11/2017	Residential Drinking Water	Non-Residential Drinking Water	
Arsenic	<2	14	18	5	2 (3)	6	19	6 (14)	32	37 (35)	49	16	3	<2	10 (A)	10 (A)	
Barium	151	158	247	112	1,190 (1,230)	144	73	152 (194)	92	982 (1,030)	241	143	1,230	1,850	2,000 (A)	2,000 (A)	
Lead	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	4.0 (L)	4.0 (L)	
Selenium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	50 (A)	50 (A)	
Zinc	<5	<5	9	<5	<5 (7)	<5	<5	<5	<5	<5	11	<5	<5	<5	2,400	5,000 (E)	
Diethyl ether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10 (E)	10 (E)	
Acetone	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	730	2,100	
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA	
Carbon disulfide	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	800	2,300	
tert-Methyl butyl ether (MTBE)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	40 (E)	40 (E)	
Acrylonitrile	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2.6	11	
2-Butanone (MEK)	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	13,000	38,000	
Dichlorodifluoromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1,700	4,800	
Chloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	260	1,100	
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.0 (A)	2.0 (A)	
Bromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	10	29	
Chloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	430	1,700	
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2,600	7,300	
1,1-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	7 (A)	7 (A)	
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5 (A)	5 (A)	
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	100 (A)	100 (A)	
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	880	2,500	
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	70 (A)	70 (A)	
Tetrahydrofuran	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	95	270	
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	80 (A,W)	80 (A,W)	
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA	
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	200 (A)	200 (A)	
4-Methyl-2-pentanone (MIBK)	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	1,800	5,200	
2-Hexanone	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	1,000	2,900	
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5 (A)	5 (A)	
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5 (A)	5 (A)	
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5 (A)	5 (A)	
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5 (A)	5 (A)	
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5 (A)	5 (A)	
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	80 (A,W)	80 (A,W)	
Dibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	80	230	
cis-1,3-Dichloropropene ³	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	8.5	35	
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	790 (E)	790 (E)	
trans-1,3-Dichloropropene ³	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	8.5	35	
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5.0 (A)	5.0 (A)	
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5.0 (A)	5.0 (A)	
trans-1,4-Dichloro-2-butene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	na	na	
Dibromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	80 (A,W)	80 (A,W)	
1,2-Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.05 (A)	0.05 (A)	
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	8	14	100 (A)	100 (A)		
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	77	320	
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	74 (E)	74 (E)	
p,m-Xylene ⁴	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	4	<2	<2	280 (E)	280 (E)	
o-Xylene ⁴	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	280 (E)	280 (E)	
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	100 (A)	100 (A)	
Isopropylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7	<5	<5	800	2,300	
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	80 (A,W)	80 (A,W)	
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	8.5	35	
1,2,3-Trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	42	120	
n-Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	12	2	80	230	
Bromobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	18	50	
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	72 (E)	72 (E)	
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	80	230	
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	6	<1	<1	63 (E)	63 (E)	
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3	<1	<1	80	230	
p-Isopropyltoluene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	NA	
1,3-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	6.6	19	
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	6	<1	<1	75 (A)	75 (A)	
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	600 (A)	600 (A)	
1,2,3-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5	<1	<1	NA	NA	
n-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3	<1	<1	80	230	
Hexachloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7.3	21	
1,2-Dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.2 (A)	0.2 (A)	
1,2,4-Trichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	70 (A)	70 (A)	
1,2,3-Trichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	NA	
Naphthalene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	101	<5	520	1,500	
2-Methylnaphthalene	<5																

**Table 3
Hemphill Road Industrial Land- Burton, Michigan
Groundwater Analytical Results- October 2017**

Monitoring Well Sample Date	Onsite Wells									Offsite Wells					MDEQ Part 201 Generic Criteria	
	OBG MW-1S 10/17/2017	OBG MW-2S 10/17/2017	OBG MW-2D 10/17/2017	OBG MW-3 10/18/2017	OBG MW-5S 10/17/2017	OBG MW-6S 10/17/2017	OBG MW-6D 10/17/2017	OBG MW-7S 10/17/2017	OBG MW-7D 10/17/2017	OBG OS-MW-1 10/18/2017	OBG OS-MW-2 10/18/2017	OBG OS-MW-3 10/18/2017	OBG OS-MW-4 10/18/2017	OBG OS-MW-5 10/18/2017	Residential Drinking Water	Non-Residential Drinking Water
Arsenic	<2	32	44	7	3	15	19	22	31	33	49	9	2	<2	10 (A)	10 (A)
Barium	158	173	267	151	1,240	163	82	253	94	749	274	719	1,300	2,040	2,000 (A)	2,000 (A)
Lead	<3	<3	<3	<3	3	<3	<3	4	<3	<3	30	<3	<3	<3	4.0 (L)	4.0 (L)
Selenium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	50 (A)	50 (A)
Zinc	<5	<5	<5	<5	19	<5	<5	7	6	<5	16	<5	<5	<5	2,400	5,000 (E)
Diethyl ether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10 (E)	10 (E)
Acetone	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	730	2,100
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
Carbon disulfide	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	800	2,300
tert-Methyl butyl ether (MTBE)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	40 (E)	40 (E)
Acrylonitrile	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2.6	11
2-Butanone (MEK)	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	13,000	38,000
Dichlorodifluoromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1,700	4,800
Chloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	260	1,100
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.0 (A)	2.0 (A)
Bromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	10	29
Chloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	430	1,700
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2,600	7,300
1,1-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	7 (A)	7 (A)
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5 (A)	5 (A)
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	100 (A)	100 (A)
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	880	2,500
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	70 (A)	70 (A)
Tetrahydrofuran	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	95	270
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	80 (A,W)	80 (A,W)
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	200 (A)	200 (A)
4-Methyl-2-pentanone (MIBK)	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	1,800	5,200
2-Hexanone	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	1,000	2,900
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5 (A)	5 (A)
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5 (A)	5 (A)
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5 (A)	5 (A)
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5 (A)	5 (A)
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5 (A)	5 (A)
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	80 (A,W)	80 (A,W)
Dibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	80	230
cis-1,3-Dichloropropene ³	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	8.5	35
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	790 (E)	790 (E)
trans-1,3-Dichloropropene ³	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	8.5	35
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5.0 (A)	5.0 (A)
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5.0 (A)	5.0 (A)
trans-1,4-Dichloro-2-butene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	na	na
Dibromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	80 (A,W)	80 (A,W)
1,2-Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.05 (A)	0.05 (A)
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	8	10	100 (A)	100 (A)
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	77	320
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	74 (E)	74 (E)
p,m-Xylene ⁴	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	3	<2	280 (E)	280 (E)
o-Xylene ⁴	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	280 (E)	280 (E)
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	100 (A)	100 (A)
Isopropylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	6	<5	800	2,300
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	80 (A,W)	80 (A,W)
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	8.5	35
1,2,3-Trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	42	120
n-Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	9	1	80	230
Bromobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	18	50
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	72 (E)	72 (E)
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	80	230
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	63 (E)	63 (E)
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	80	230
p-Isopropyltoluene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	NA
1,3-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	6.6	19
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5	4	75 (A)	75 (A)
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	600 (A)	600 (A)
1,2,3-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4	<1	NA	NA
n-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	80	230
Hexachloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7.3	21
1,2-Dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.2 (A)	0.2 (A)
1,2,4-Trichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	70 (A)	70 (A)
1,2,3-Trichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	NA
Naphthalene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	64	<5	520	1,500







Figures

I:\Racer-Trust_15338\64740_2017_HRIL\Docs\Reports\Annual 2017_GWS report\Figures\001 - Figure 1 - Well Locations.mxd



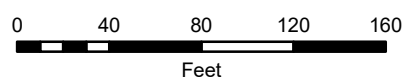
PLOTDATE: 11/29/17 ON:ellm

LEGEND

-  MONITORING WELL LOCATION (SCREENED IN NATIVE SOIL)
-  MONITORING WELL LOCATION (SCREENED IN FILL)
-  FENCE LINE
-  HEMPHILL ROAD INDUSTRIAL LAND

RACER TRUST
 HEMPHILL ROAD INDUSTRIAL LAND
 BURTON, MICHIGAN

MONITORING WELL LOCATIONS



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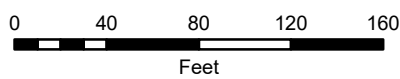
PLOTDATE: 11/29/17 ONeillJM

LEGEND

- MONITORING WELL (GROUNDWATER ELEVATION IN FEET) (SCREENED IN NATIVE SOIL)
- MONITORING WELL (GROUNDWATER ELEVATION IN FEET) (SCREENED IN FILL)
- FENCE LINE
- FORMER BUILDING
- APPROXIMATE EXTENT OF WASTE FILL ONSITE

**RACER TRUST
 HEMPHILL ROAD INDUSTRIAL LAND
 BURTON, MICHIGAN**

**GROUNDWATER ELEVATIONS
 APRIL 2017**



I:\Receiv-Trust_15388\64740_2017_HRIL\Docs\Reports\Annual 2017_GWS report\Figures\003 - Figure 3 - GW Elevations (October 2017).mxd



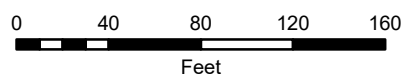
PLOTDATE: 11/11/15 ONeilJUM

LEGEND

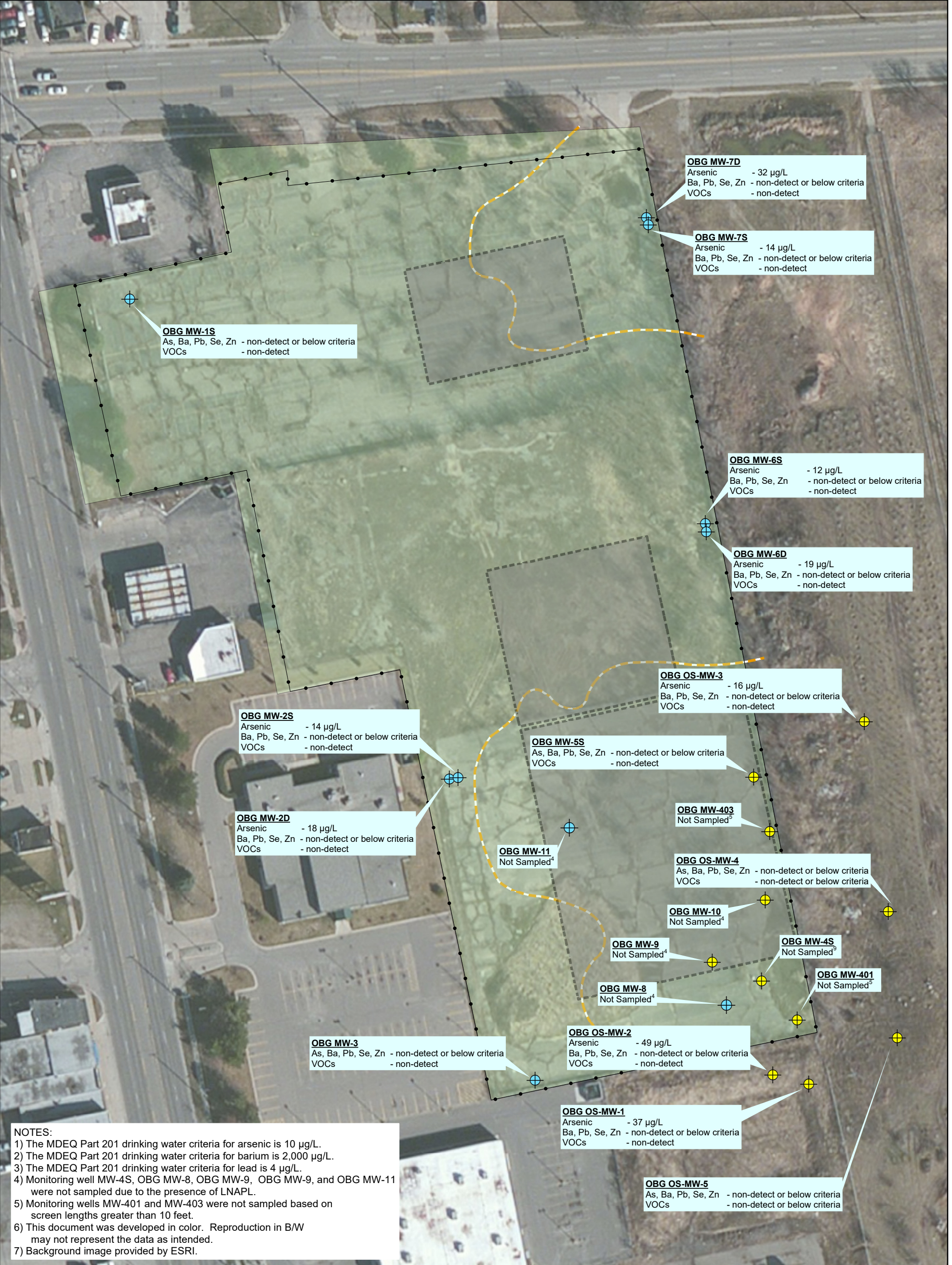
- MONITORING WELL
(GROUNDWATER ELEVATION IN FEET)
(SCREENED IN NATIVE SOIL)
- MONITORING WELL
(GROUNDWATER ELEVATION IN FEET)
(SCREENED IN FILL)
- FENCE LINE
- FORMER BUILDING
- APPROXIMATE EXTENT OF WASTE FILL ONSITE

RACER TRUST
HEMPHILL ROAD INDUSTRIAL LAND
BURTON, MICHIGAN

**GROUNDWATER ELEVATIONS
OCTOBER 21, 2017**



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NOTES:
 1) The MDEQ Part 201 drinking water criteria for arsenic is 10 µg/L.
 2) The MDEQ Part 201 drinking water criteria for barium is 2,000 µg/L.
 3) The MDEQ Part 201 drinking water criteria for lead is 4 µg/L.
 4) Monitoring well MW-4S, OBG MW-8, OBG MW-9, OBG MW-9, and OBG MW-11 were not sampled due to the presence of LNAPL.
 5) Monitoring wells MW-401 and MW-403 were not sampled based on screen lengths greater than 10 feet.
 6) This document was developed in color. Reproduction in B/W may not represent the data as intended.
 7) Background image provided by ESRI.

PLOTDATE: 11/29/17 ON:Neilium

RACER TRUST
HEMPHILL ROAD INDUSTRIAL LAND
BURTON, MICHIGAN

**GROUNDWATER ANALYTICAL RESULTS
APRIL 2017**



LEGEND

- MONITORING WELL (SCREENED IN NATIVE SOIL)
- MONITORING WELL (SCREENED IN FILL)
- FENCE LINE
- HEMPHILL ROAD INDUSTRIAL LAND
- FORMER BUILDING
- APPROXIMATE EXTENT OF WASTE FILL ONSITE

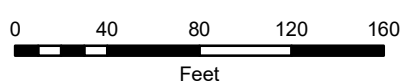
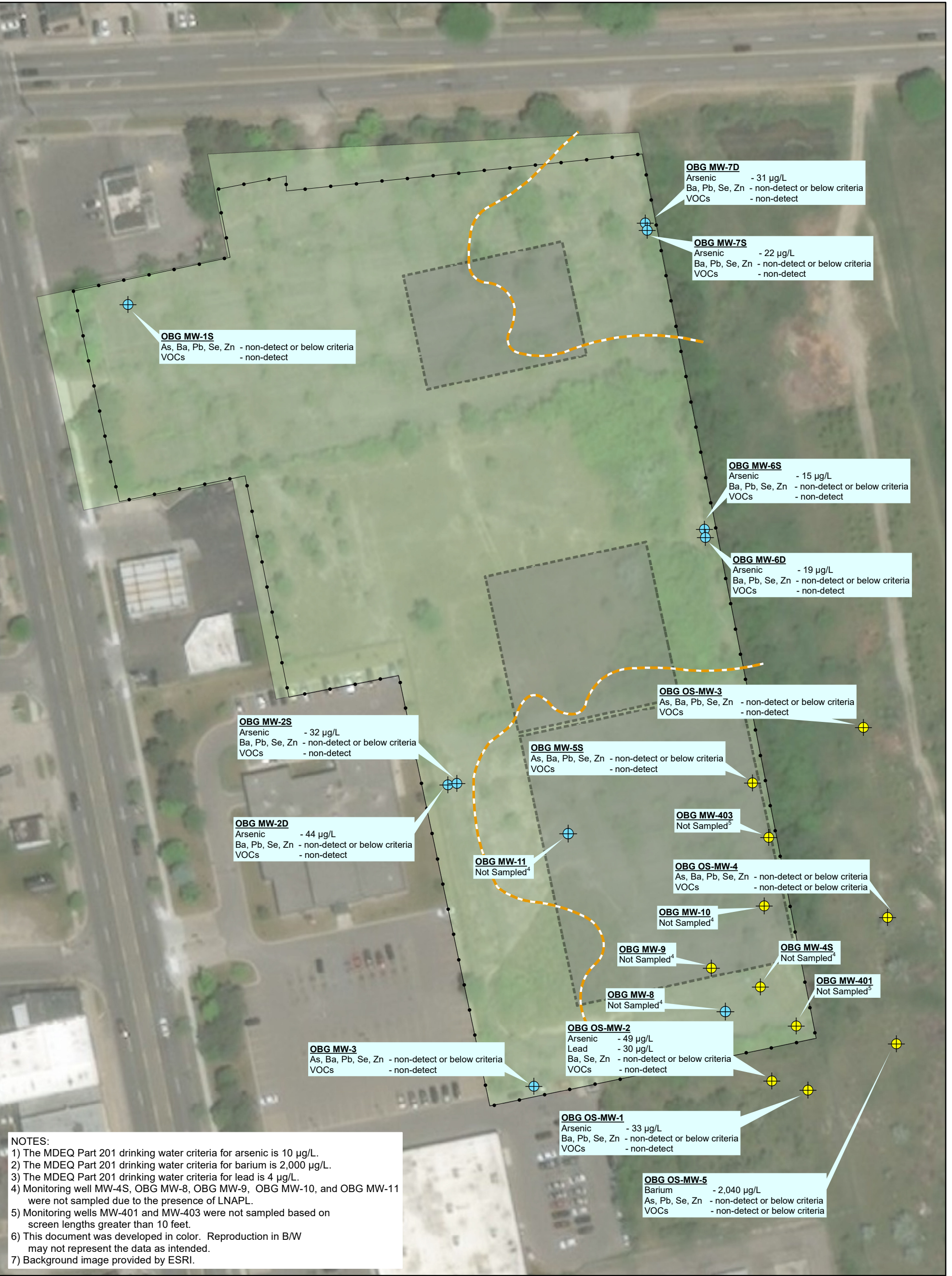


FIGURE 5

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PLOTDATE: 11/29/17 OneMill



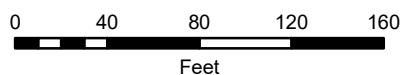
NOTES:
 1) The MDEQ Part 201 drinking water criteria for arsenic is 10 µg/L.
 2) The MDEQ Part 201 drinking water criteria for barium is 2,000 µg/L.
 3) The MDEQ Part 201 drinking water criteria for lead is 4 µg/L.
 4) Monitoring well MW-4S, OBG MW-8, OBG MW-9, OBG MW-10, and OBG MW-11 were not sampled due to the presence of LNAPL.
 5) Monitoring wells MW-401 and MW-403 were not sampled based on screen lengths greater than 10 feet.
 6) This document was developed in color. Reproduction in B/W may not represent the data as intended.
 7) Background image provided by ESRI.

LEGEND

- MONITORING WELL (SCREENED IN NATIVE SOIL)
- MONITORING WELL (SCREENED IN FILL)
- FENCE LINE
- HEMPHILL ROAD INDUSTRIAL LAND
- FORMER BUILDING
- APPROXIMATE EXTENT OF WASTE FILL ONSITE

RACER TRUST
 HEMPHILL ROAD INDUSTRIAL LAND
 BURTON, MICHIGAN

**GROUNDWATER ANALYTICAL RESULTS
 OCTOBER 2017**



Exhibits



Exhibit A
Groundwater Sampling
Logs
April 2017 & October 2017

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 4/10/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. _____
 Personnel KBS

Weather Sunny 60's
 Well # OBG-MW15
 Evacuation Method Peristaltic / Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * 27.25 ft.
 Depth to Water * 11.28 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal.(s)
 3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal.(s)
 Did well go dry? No

(Other, Specify) _____

* Measurements taken from Well Casing Protective Casing

Instrument Calibration:

Calibrated within range

pH yes
 ORP yes
 Conductivity yes
 DO yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>11.91</u>	initial <u>12.6</u>	initial <u>1101</u>	initial <u>3.61</u>	initial <u>7.36</u>	initial <u>173.6</u>	initial <u>15</u>
840 5 min	<u>12.03</u>	<u>12.4</u>	<u>1079</u>	<u>3.55</u>	<u>7.31</u>	<u>146.3</u>	<u>15</u>
845 10 min	<u>12.44</u>	<u>12.7</u>	<u>1077</u>	<u>3.48</u>	<u>7.26</u>	<u>121.3</u>	<u>10</u>
850 15 min	<u>12.71</u>	<u>12.8</u>	<u>1079</u>	<u>3.44</u>	<u>7.25</u>	<u>130.1</u>	<u>7</u>
855 20 min	<u>12.91</u>	<u>12.8</u>	<u>1085</u>	<u>3.23</u>	<u>7.27</u>	<u>133.4</u>	<u>7</u>
900 25 min	<u>13.34</u>	<u>13.0</u>	<u>1088</u>	<u>2.98</u>	<u>7.28</u>	<u>133.0</u>	<u>4</u>
905 30 min	<u>13.52</u>	<u>12.8</u>	<u>1085</u>	<u>2.85</u>	<u>7.29</u>	<u>126.9</u>	<u>3</u>
910 35 min	<u>13.91</u>	<u>13.0</u>	<u>1091</u>	<u>2.70</u>	<u>7.30</u>	<u>134.1</u>	<u>3</u>
40 min							
45 min							
50 min							
55 min							
60 min							

Water Sample:

Time Collected 910

Physical Appearance at Start

Physical Appearance at Sampling

Color <u>Clear</u>	Color <u>Clear</u>
Odor <u>NONE</u>	Odor <u>NONE</u>
Turbidity (> 100 NTU) <u>15 LOW</u>	Turbidity (> 100 NTU) <u>3</u>
Sheen/Free Product <u>NONE</u>	Sheen/Free Product <u>NONE</u>

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes:

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 4/10/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. _____
 Personnel KBS

Weather Mostly Sunny Cool
 Well # OBG-MW 25
 Evacuation Method Peristaltic / Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * 20.35 ft.
 Depth to Water * 8.83 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal.(s)
 3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal.(s)
 Did well go dry? No

(Other, Specify) _____

* Measurements taken from Well Casing Protective Casing

Instrument Calibration:

Calibrated within range

pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured	Temperature Celsius	Conductivity uS/cm	Dissolved Oxygen mg/L	pH	ORP mV	Turbidity NTUs
initial	<u>9.59</u>	initial <u>12.4</u>	initial <u>2159</u>	initial <u>1.50</u>	initial <u>7.23</u>	initial <u>17.1</u>	initial <u>5</u>
5 min	<u>9.94</u>	<u>13.4</u>	<u>2202</u>	<u>1.33</u>	<u>7.24</u>	<u>13.6</u>	<u>8</u>
10 min	<u>10.36</u>	<u>13.5</u>	<u>2216</u>	<u>1.17</u>	<u>7.27</u>	<u>7.3</u>	<u>9</u>
15 min	<u>10.69</u>	<u>13.5</u>	<u>2219</u>	<u>1.07</u>	<u>7.29</u>	<u>-1.2</u>	<u>10</u>
20 min	<u>10.96</u>	<u>13.6</u>	<u>2221</u>	<u>0.89</u>	<u>7.29</u>	<u>-15.7</u>	<u>10</u>
25 min	<u>11.17</u>	<u>13.8</u>	<u>2236</u>	<u>0.90</u>	<u>7.29</u>	<u>-20.6</u>	<u>9</u>
30 min	<u>11.42</u>	<u>13.6</u>	<u>2218</u>	<u>0.88</u>	<u>7.30</u>	<u>-21.4</u>	<u>9</u>
35 min	<u>11.71</u>	<u>13.3</u>	<u>2207</u>	<u>0.84</u>	<u>7.30</u>	<u>-26.0</u>	<u>8</u>
40 min	_____	_____	_____	_____	_____	_____	_____
45 min	_____	_____	_____	_____	_____	_____	_____
50 min	_____	_____	_____	_____	_____	_____	_____
55 min	_____	_____	_____	_____	_____	_____	_____
60 min	_____	_____	_____	_____	_____	_____	_____

1435
1440
1445
1450
1455
1500

Water Sample:

Time Collected 1510

Physical Appearance at Start _____

Physical Appearance at Sampling _____

Color clear
 Odor NONE
 Turbidity (> 100 NTU) 5
 Sheen/Free Product NONE
 Color clear
 Odor NONE
 Turbidity (> 100 NTU) 8
 Sheen/Free Product NONE

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	2	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes:

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 4/10/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. _____
 Personnel KBS

Weather Mostly cloudy
 Well # OBG-MW 2D
 Evacuation Method Peristaltic / Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * 38.44 ft.
 Depth to Water * 18.83 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal.(s)
 3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal.(s)
 Did well go dry? No

(Other, Specify) _____

* Measurements taken from Well Casing Protective Casing

Instrument Calibration:

Calibrated within range

pH yes
 ORP yes
 Conductivity yes
 DO yes

Water parameters:

	Drawdown measured	Temperature Celsius	Conductivity uS/cm	Dissolved Oxygen mg/L	pH	ORP mV	Turbidity NTUs
initial	<u>18.97</u>	initial <u>18.6</u>	initial <u>1630</u>	initial <u>7.96</u>	initial <u>7.61</u>	initial <u>-43.8</u>	initial <u>94</u>
15:00 5 min	<u>19.07</u>	<u>18.2</u>	<u>1567</u>	<u>1.72</u>	<u>7.51</u>	<u>-35.6</u>	<u>61</u>
15:05 10 min	<u>19.12</u>	<u>17.3</u>	<u>1505</u>	<u>1.05</u>	<u>7.46</u>	<u>-27.6</u>	<u>32</u>
15:30 15 min	<u>19.19</u>	<u>17.2</u>	<u>1505</u>	<u>1.03</u>	<u>7.44</u>	<u>-22.9</u>	<u>17</u>
15:35 20 min	<u>19.31</u>	<u>16.7</u>	<u>1477</u>	<u>0.96</u>	<u>7.44</u>	<u>-22.8</u>	<u>8</u>
15:40 25 min	<u>19.31</u>	<u>17.10</u>	<u>1493</u>	<u>0.74</u>	<u>7.43</u>	<u>-29.4</u>	<u>8</u>
15:45 30 min	<u>19.24</u>	<u>17.3</u>	<u>1497</u>	<u>0.71</u>	<u>7.44</u>	<u>-24.4</u>	<u>7</u>
15:50 35 min	<u>19.25</u>	<u>17.5</u>	<u>1498</u>				
40 min							
45 min							
50 min							
55 min							
60 min							

Water Sample:

Time Collected 1555

Physical Appearance at Start _____

Physical Appearance at Sampling _____

Color light gray
 Odor NONE
 Turbidity (> 100 NTU) 94
 Sheen/Free Product NONE

Color clear
 Odor NONE
 Turbidity (> 100 NTU) 7
 Sheen/Free Product NONE

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	2	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes:

Pumping Rate: 100 ml/min

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 4/11/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. _____
 Personnel KBS

Weather cloudy SB
 Well # OBG-MW 35
 Evacuation Method Peristaltic / Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * 27.00 ft.
 Depth to Water * 23.00 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal.(s)
 3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal.(s)
 Did well go dry? NO

(Other, Specify) _____

* Measurements taken from Well Casing Protective Casing

Instrument Calibration:

Calibrated within range

pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured	Temperature Celsius	Conductivity uS/cm	Dissolved Oxygen mg/L	pH	ORP mV	Turbidity NTUs
initial	<u>23.00</u>	initial <u>11.1</u>	initial <u>2183</u>	initial <u>0.95</u>	initial <u>7.02</u>	initial <u>-13.8</u>	initial <u>72</u>
12:40 5 min	<u>23.00</u>	<u>11.2</u>	<u>2170</u>	<u>0.27</u>	<u>6.95</u>	<u>-18.0</u>	<u>38</u>
12:45 10 min	<u>23.00</u>	<u>11.4</u>	<u>2031</u>	<u>0.14</u>	<u>6.91</u>	<u>-16.2</u>	<u>36</u>
12:50 15 min	<u>23.00</u>	<u>11.4</u>	<u>1948</u>	<u>0.19</u>	<u>6.89</u>	<u>-15.8</u>	<u>31</u>
12:55 20 min	<u>23.00</u>	<u>11.4</u>	<u>1891</u>	<u>0.16</u>	<u>6.87</u>	<u>-16.4</u>	<u>21</u>
13:00 25 min	<u>23.00</u>	<u>11.4</u>	<u>1854</u>	<u>0.14</u>	<u>6.89</u>	<u>-16.6</u>	<u>18</u>
13:05 30 min	<u>23.00</u>	<u>11.4</u>	<u>1824</u>	<u>0.15</u>	<u>6.85</u>	<u>-17.0</u>	<u>19</u>
13:10 35 min	<u>23.00</u>	<u>11.7</u>	<u>1837</u>	<u>0.14</u>	<u>6.84</u>	<u>-17.4</u>	<u>17</u>
13:15 40 min	<u>23.00</u>	<u>11.7</u>	<u>1813</u>	<u>0.15</u>	<u>6.83</u>	<u>-18.1</u>	<u>17</u>
45 min							
50 min							
55 min							
60 min							

Water Sample:

Time Collected 1320

Physical Appearance at Start _____

Physical Appearance at Sampling _____

Color Clear
 Odor NONE
 Turbidity (> 100 NTU) 72
 Sheen/Free Product NONE

Color Clear
 Odor NONE
 Turbidity (> 100 NTU) 17
 Sheen/Free Product NONE

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	2	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes: Pumping rate; 200 ml/min

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 4/10/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. _____
 Personnel KBS

Weather Passing Rain shower 60's
 Well # OBG-MW 6S
 Evacuation Method Peristaltic Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * 19.19 ft.
 Depth to Water * 11.71 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal.(s)
 3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal.(s)
 Did well go dry? No

(Other, Specify) _____

* Measurements taken from Well Casing Protective Casing

Instrument Calibration: _____ Calibrated within range

pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured	Temperature Celsius	Conductivity uS/cm	Dissolved Oxygen mg/L	pH	ORP mV	Turbidity NTUs
initial	<u>12.10</u>	initial <u>10.8</u>	initial <u>1148</u>	initial <u>3.76</u>	initial <u>7.10</u>	initial <u>43.8</u>	initial <u>10</u>
1235 5 min	<u>12.84</u>	<u>10.8</u>	<u>1148</u>	<u>2.08</u>	<u>7.01</u>	<u>49.2</u>	<u>8</u>
1240 10 min	<u>13.33</u>	<u>10.9</u>	<u>1153</u>	<u>2.22</u>	<u>7.02</u>	<u>48.7</u>	<u>5</u>
1245 15 min	<u>13.94</u>	<u>11.5</u>	<u>1170</u>	<u>2.22</u>	<u>7.06</u>	<u>46.8</u>	<u>6</u>
1250 20 min	<u>14.32</u>	<u>11.8</u>	<u>1180</u>	<u>2.02</u>	<u>7.09</u>	<u>44.1</u>	<u>2</u>
1255 25 min	<u>14.45</u>	<u>12.2</u>	<u>1189</u>	<u>1.96</u>	<u>7.11</u>	<u>39.0</u>	<u>2</u>
1300 30 min	<u>14.65</u>	<u>11.9</u>	<u>1181</u>	<u>1.89</u>	<u>7.11</u>	<u>38.8</u>	<u>2</u>
35 min							
40 min							
45 min							
50 min							
55 min							
60 min							

Water Sample: 1305
 Time Collected _____

Physical Appearance at Start Physical Appearance at Sampling

Color clear Color clear
 Odor NONE Odor NONE
 Turbidity (> 100 NTU) 10 Turbidity (> 100 NTU) 2
 Sheen/Free Product NONE Sheen/Free Product NONE

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	2	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes: pumping rate: 100 ml/min

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 4/10/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. _____
 Personnel KBS

Weather Mostly sunny
 Well # OBG - MW 6D
 Evacuation Method Peristaltic (Submersible pump)
 Sampling Method Low-flow

Well Information:

Depth of Well * 44.45 ft.
 Depth to Water * 16.60 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal.(s)
 3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal.(s)
 Did well go dry? NO

(Other, Specify) _____

* Measurements taken from Well Casing Protective Casing

Instrument Calibration:

Calibrated within range

pH 4.2
 ORP 4.5
 Conductivity 4.6
 DO 4.6

Water parameters:

	Drawdown measured	Temperature Celsius	Conductivity uS/cm	Dissolved Oxygen mg/L	pH	ORP mV	Turbidity NTUs
initial	<u>16.91</u>	initial <u>14.1</u>	initial <u>855</u>	initial <u>6.17</u>	initial <u>7.93</u>	initial <u>0.2</u>	initial <u>155</u>
5 min	<u>17.73</u>	<u>12.8</u>	<u>806</u>	<u>0.53</u>	<u>7.78</u>	<u>-57.9</u>	<u>95</u>
10 min	<u>18.45</u>	<u>13.0</u>	<u>808</u>	<u>0.105</u>	<u>7.76</u>	<u>-64.1</u>	<u>75</u>
15 min	<u>18.43</u>	<u>13.2</u>	<u>817</u>	<u>2.23</u>	<u>7.79</u>	<u>-59.6</u>	<u>55</u>
20 min	<u>19.30</u>	<u>12.8</u>	<u>807</u>	<u>2.59</u>	<u>7.85</u>	<u>-50.5</u>	<u>30</u>
25 min	<u>20.05</u>	<u>12.7</u>	<u>806</u>	<u>2.99</u>	<u>7.85</u>	<u>-47.8</u>	<u>16</u>
30 min	<u>20.40</u>	<u>12.7</u>	<u>817</u>	<u>2.45</u>	<u>7.83</u>	<u>-58.5</u>	<u>18</u>
35 min	<u>20.55</u>	<u>12.8</u>	<u>821</u>	<u>1.59</u>	<u>7.80</u>	<u>-72.5</u>	<u>14</u>
40 min	<u>20.70</u>	<u>12.9</u>	<u>827</u>	<u>1.39</u>	<u>7.80</u>	<u>-77.8</u>	<u>4</u>
45 min	<u>20.79</u>	<u>13.0</u>	<u>828</u>	<u>1.30</u>	<u>7.79</u>	<u>-81.5</u>	<u>11</u>
50 min	<u>20.81</u>	<u>13.2</u>	<u>834</u>	<u>1.26</u>	<u>7.78</u>	<u>-86.4</u>	<u>9</u>
55 min	_____	_____	_____	_____	_____	_____	_____
60 min	_____	_____	_____	_____	_____	_____	_____

Water Sample:

Time Collected 1410

Physical Appearance at Start _____ Physical Appearance at Sampling _____

Color Cloudy / light Gray Color _____ Clear
 Odor NONE Odor _____ NONE
 Turbidity (> 100 NTU) 153 Turbidity (> 100 NTU) _____ 9
 Sheen/Free Product NONE Sheen/Free Product _____ NONE

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	2	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes:

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 4/10/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. _____
 Personnel KBS

Weather Sunny 60s
 Well # OB6 - MW 75
 Evacuation Method Peristaltic / Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * 17.78 ft.
 Depth to Water * 6.70 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal.(s)
 3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal.(s)
 Did well go dry? No

(Other, Specify) _____

* Measurements taken from Well Casing Protective Casing

Instrument Calibration:

Calibrated within range
 pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>7.00</u>	initial <u>15.0</u>	initial <u>1145</u>	initial <u>2.18</u>	initial <u>6.77</u>	initial <u>12.3</u>	initial <u>300</u>
5 min	<u>7.79</u>	<u>13.2</u>	<u>1092</u>	<u>0.21</u>	<u>6.68</u>	<u>21.3</u>	<u>178</u>
10 min	<u>8.02</u>	<u>14.2</u>	<u>1079</u>	<u>0.26</u>	<u>6.68</u>	<u>16.2</u>	<u>136</u>
15 min	<u>8.40</u>	<u>15.7</u>	<u>1117</u>	<u>0.26</u>	<u>6.72</u>	<u>7.6</u>	<u>150</u>
20 min	<u>8.60</u>	<u>15.8</u>	<u>1135</u>	<u>0.26</u>	<u>6.73</u>	<u>-5.6</u>	<u>152</u>
25 min	<u>8.91</u>	<u>14.3</u>	<u>1086</u>	<u>0.21</u>	<u>6.75</u>	<u>-5.9</u>	<u>137</u>
30 min	<u>9.24</u>	<u>14.0</u>	<u>1070</u>	<u>0.18</u>	<u>6.75</u>	<u>-8.0</u>	<u>136</u>
35 min	<u>9.52</u>	<u>14.2</u>	<u>1072</u>	<u>0.17</u>	<u>6.76</u>	<u>-7.3</u>	<u>123</u>
40 min	<u>9.75</u>	<u>14.9</u>	<u>1093</u>	<u>2.18</u>	<u>6.75</u>	<u>-7.6</u>	<u>116</u>
45 min	<u>9.99</u>	<u>14.6</u>	<u>1090</u>	<u>2.18</u>	<u>6.74</u>	<u>-9.6</u>	<u>111</u>
50 min	_____	_____	_____	_____	_____	_____	_____
55 min	_____	_____	_____	_____	_____	_____	_____
60 min	_____	_____	_____	_____	_____	_____	_____

950
955
1000
1005
1010
1025
1030

Water Sample:

Time Collected 1035

Physical Appearance at Start _____

Physical Appearance at Sampling _____

Color yellow
 Odor NONE
 Turbidity (> 100 NTU) 300
 Sheen/Free Product NONE

Color yellowish
 Odor NONE
 Turbidity (> 100 NTU) 111
 Sheen/Free Product NONE

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes: Dissolved collected

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 4/10/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. _____
 Personnel KBS

Weather cloudy 60°
 Well # OBG-MW 7D
 Evacuation Method Peristaltic (Submersible pump)
 Sampling Method Low-flow

Well Information:

Depth of Well * 47.67 ft.
 Depth to Water * 11.34 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal.(s)
 3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1/2 gal.(s)
 Did well go dry? No

(Other, Specify) _____

* Measurements taken from Well Casing Protective Casing

Instrument Calibration:

Calibrated within range

pH 4.5
 ORP 4.5
 Conductivity 4.5
 DO 4.5

Water parameters:

	Drawdown measured	Temperature Celsius	Conductivity uS/cm	Dissolved Oxygen mg/L	pH	ORP mV	Turbidity NTUs
initial	<u>11.45</u>	initial <u>13.1</u>	initial <u>517</u>	initial <u>1.07</u>	initial <u>7.87</u>	initial <u>-47.8</u>	initial <u>135</u>
1105 5 min	<u>11.49</u>	<u>12.7</u>	<u>505</u>	<u>0.23</u>	<u>7.79</u>	<u>-94.0</u>	<u>173</u>
1111 10 min	<u>11.50</u>	<u>12.6</u>	<u>502</u>	<u>0.15</u>	<u>7.76</u>	<u>-109.7</u>	<u>180</u>
1115 15 min	<u>11.60</u>	<u>12.5</u>	<u>500</u>	<u>0.09</u>	<u>7.75</u>	<u>-117.2</u>	<u>62</u>
1120 20 min	<u>11.50</u>	<u>12.5</u>	<u>500</u>	<u>0.09</u>	<u>7.75</u>	<u>-122.8</u>	<u>43</u>
1125 25 min	<u>4.50</u>	<u>12.4</u>	<u>498.6</u>	<u>0.09</u>	<u>7.75</u>	<u>-124.6</u>	<u>31</u>
1130 30 min	<u>11.50</u>	<u>12.4</u>	<u>497.6</u>	<u>0.08</u>	<u>7.75</u>	<u>-125.6</u>	<u>24</u>
1135 35 min	<u>11.50</u>	<u>12.4</u>	<u>496.9</u>	<u>0.08</u>	<u>7.75</u>	<u>-126.4</u>	<u>19</u>
1140 40 min	<u>11.50</u>	<u>12.5</u>	<u>497.7</u>	<u>0.10</u>	<u>7.74</u>	<u>-126.6</u>	<u>15</u>
1145 45 min	<u>11.50</u>	<u>12.5</u>	<u>497.7</u>	<u>0.07</u>	<u>7.75</u>	<u>-126.8</u>	<u>12</u>
1145 50 min	<u>11.50</u>	<u>12.5</u>	<u>496.2</u>	<u>0.07</u>	<u>7.75</u>	<u>-127.2</u>	<u>12</u>
1150 55 min	<u>11.50</u>	<u>12.6</u>	<u>497.7</u>	<u>0.07</u>	<u>7.75</u>	<u>-128.2</u>	<u>10</u>
1155 60 min	_____	_____	_____	_____	_____	_____	_____

Water Sample:

Time Collected 1200

Physical Appearance at Start _____

Physical Appearance at Sampling _____

Color cloudy / light gray
 Odor NONE
 Turbidity (> 100 NTU) 135
 Sheen/Free Product NONE

Color clear
 Odor NONE
 Turbidity (> 100 NTU) 16
 Sheen/Free Product NONE

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	2	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes:

pumping rate: 200 ml/min

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 4/11/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. _____
 Personnel KBS

Weather cloudy/windy
 Well # OBG-05-MW1
 Evacuation Method Peristaltic / Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * _____ ft.
 Depth to Water * 21.25 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal.(s)
 3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1/2 gal.(s)
 Did well go dry? No

(Other, Specify) _____

* Measurements taken from Well Casing Protective Casing

Instrument Calibration:

Calibrated within range

pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured	Temperature Celsius	Conductivity uS/cm	Dissolved Oxygen mg/L	pH	ORP mV	Turbidity NTUs
	initial <u>21.55</u>	initial <u>11.4</u>	initial <u>833</u>	initial <u>0.80</u>	initial <u>6.71</u>	initial <u>-66.2</u>	initial <u>405</u>
1450	5 min <u>21.91</u>	<u>11.3</u>	<u>827</u>	<u>0.55</u>	<u>6.71</u>	<u>-47.3</u>	<u>261</u>
1455	10 min <u>22.15</u>	<u>11.2</u>	<u>822</u>	<u>0.46</u>	<u>6.71</u>	<u>-49.4</u>	<u>101</u>
1500	15 min <u>22.15</u>	<u>11.3</u>	<u>823</u>	<u>0.40</u>	<u>6.72</u>	<u>-71.5</u>	<u>58</u>
1505	20 min <u>22.15</u>	<u>10.9</u>	<u>818</u>	<u>0.42</u>	<u>6.72</u>	<u>-73.5</u>	<u>43</u>
1510	25 min <u>22.22</u>	<u>10.8</u>	<u>811</u>	<u>0.36</u>	<u>6.71</u>	<u>-74.6</u>	<u>37</u>
1515	30 min <u>22.40</u>	<u>10.8</u>	<u>812</u>	<u>0.31</u>	<u>6.72</u>	<u>-76.4</u>	<u>27</u>
1520	35 min <u>22.53</u>	<u>10.8</u>	<u>813</u>	<u>0.31</u>	<u>6.72</u>	<u>-78.5</u>	<u>27</u>
1525	40 min <u>22.64</u>	<u>10.7</u>	<u>814</u>	<u>0.30</u>	<u>6.73</u>	<u>-80.0</u>	<u>30</u>
1530	45 min <u>22.73</u>	<u>10.7</u>	<u>815</u>	<u>0.30</u>	<u>6.73</u>	<u>-81.8</u>	<u>31</u>
1535	50 min <u>22.85</u>	<u>10.7</u>	<u>816</u>	<u>0.29</u>	<u>6.74</u>	<u>-83.1</u>	<u>31</u>
	55 min _____	_____	_____	_____	_____	_____	_____
	60 min _____	_____	_____	_____	_____	_____	_____

Water Sample:

Time Collected 1540

Physical Appearance at Start _____

Physical Appearance at Sampling

Color light gray
 Odor NONE
 Turbidity (> 100 NTU) 405
 Sheen/Free Product NONE

Color slight clarity
 Odor NONE
 Turbidity (> 100 NTU) 31
 Sheen/Free Product NONE

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	2	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes:

Pumping Rate : 80-90 ml/min
 Dissolved / TOTAL collected

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 4/11/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. _____
 Personnel KBS

Weather cloudy
 Well # OBG-05-MW 2
 Evacuation Method Peristaltic / Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * _____ ft.
 Depth to Water * 20.34 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal.(s)
 3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling _____ gal.(s)
 Did well go dry? No

* Measurements taken from Well Casing Protective Casing (Other, Specify) _____

Instrument Calibration:

Calibrated within range

pH yes
 ORP yes
 Conductivity yes
 DO yes

Water parameters:

	Drawdown measured	Temperature Celsius	Conductivity uS/cm	Dissolved Oxygen mg/L	pH	ORP mV	Turbidity NTUs
initial	<u>20.55</u>	initial <u>10.2</u>	initial <u>750</u>	initial <u>1.03</u>	initial <u>6.71</u>	initial <u>-43.7</u>	initial <u>30</u>
1610 5 min	<u>20.75</u>	<u>10.3</u>	<u>747</u>	<u>0.36</u>	<u>6.67</u>	<u>-51.5</u>	<u>72</u>
1615 10 min	<u>21.04</u>	<u>10.3</u>	<u>746</u>	<u>0.39</u>	<u>6.65</u>	<u>-53.7</u>	<u>45</u>
1620 15 min	<u>21.25</u>	<u>10.2</u>	<u>744</u>	<u>0.36</u>	<u>6.66</u>	<u>-57.3</u>	<u>38</u>
1625 20 min	<u>21.25</u>	<u>10.1</u>	<u>744</u>	<u>0.36</u>	<u>6.67</u>	<u>-60.8</u>	<u>25</u>
1630 25 min	<u>21.31</u>	<u>10.1</u>	<u>745</u>	<u>0.31</u>	<u>6.67</u>	<u>-63.0</u>	<u>23</u>
1635 30 min	<u>21.35</u>	<u>10.1</u>	<u>745</u>	<u>0.32</u>	<u>6.68</u>	<u>-63.7</u>	<u>23</u>
1640 35 min	<u>21.42</u>	<u>10.2</u>	<u>746</u>	<u>0.31</u>	<u>6.67</u>	<u>-63.9</u>	<u>20</u>
40 min							
45 min							
50 min							
55 min							
60 min							

Water Sample:

Time Collected 1645

Physical Appearance at Start

Physical Appearance at Sampling

Color slightly rust/clear Color clear
 Odor NONE Odor NONE
 Turbidity (> 100 NTU) 32 Turbidity (> 100 NTU) 20
 Sheen/Free Product NONE Sheen/Free Product NONE

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	2	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes: slight iron pattern
* a few iron globs entered bottle during sampling

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 4/11/19
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. _____
 Personnel KBS

Weather cloudy so's
 Well # OBG-OS-MW 3
 Evacuation Method Peristaltic / Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * 30.30 ft.
 Depth to Water * 24.76 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal.(s)
 3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal.(s)
 Did well go dry? No

(Other, Specify) _____

* Measurements taken from Well Casing Protective Casing

Instrument Calibration:

Calibrated within range

pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured	Temperature Celsius	Conductivity uS/cm	Dissolved Oxygen mg/L	pH	ORP mV	Turbidity NTUs
initial	<u>24.77</u>	initial <u>10.2</u>	initial <u>922</u>	initial <u>0.43</u>	initial <u>6.95</u>	initial <u>-100.2</u>	initial <u>27</u>
5 min	<u>24.77</u>	<u>10.6</u>	<u>893</u>	<u>0.29</u>	<u>7.00</u>	<u>-116.5</u>	<u>19</u>
10 min	<u>24.77</u>	<u>10.4</u>	<u>857</u>	<u>0.11</u>	<u>7.07</u>	<u>-127.6</u>	<u>15</u>
15 min	<u>24.77</u>	<u>10.4</u>	<u>820</u>	<u>0.13</u>	<u>7.11</u>	<u>-132.6</u>	<u>16</u>
20 min	<u>24.77</u>	<u>10.4</u>	<u>820</u>	<u>0.10</u>	<u>7.13</u>	<u>-135.3</u>	<u>14</u>
25 min	<u>24.77</u>	<u>10.4</u>	<u>859</u>	<u>0.09</u>	<u>7.15</u>	<u>-137.9</u>	<u>14</u>
30 min	<u>24.77</u>	<u>10.4</u>	<u>857</u>	<u>0.10</u>	<u>7.16</u>	<u>-138.9</u>	<u>13</u>
35 min	_____	_____	_____	_____	_____	_____	_____
40 min	_____	_____	_____	_____	_____	_____	_____
45 min	_____	_____	_____	_____	_____	_____	_____
50 min	_____	_____	_____	_____	_____	_____	_____
55 min	_____	_____	_____	_____	_____	_____	_____
60 min	_____	_____	_____	_____	_____	_____	_____

Water Sample:

Time Collected 915

Physical Appearance at Start _____

Physical Appearance at Sampling _____

Color clear
 Odor NONE
 Turbidity (> 100 NTU) 27
 Sheen/Free Product NONE

Color clear
 Odor NONE
 Turbidity (> 100 NTU) 13
 Sheen/Free Product NONE

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	2	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes:

Pumping 18 min/mt rate

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 4/11/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. _____
 Personnel KBS

Weather cloudy 50's
 Well # OBG-05-MW 4
 Evacuation Method Peristaltic / Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * 27.80 ft.
 Depth to Water * 23.85 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal.(s)
 3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal.(s)
 Did well go dry? No

(Other, Specify) _____

* Measurements taken from Well Casing Protective Casing

Instrument Calibration:

Calibrated within range

pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured	Temperature Celsius	Conductivity uS/cm	Dissolved Oxygen mg/L	pH	ORP mV	Turbidity NTUs
initial	<u>23.85</u>	initial <u>11.0</u>	initial <u>1503</u>	initial <u>1.99</u>	initial <u>6.48</u>	initial <u>-75.9</u>	initial <u>19</u>
950 955 1000 1005 1010 1015	<u>23.85</u>	<u>11.0</u>	<u>1580</u>	<u>0.54</u>	<u>6.51</u>	<u>-90.7</u>	<u>19</u>
5 min	<u>23.85</u>	<u>11.0</u>	<u>1595</u>	<u>0.35</u>	<u>6.53</u>	<u>-95.0</u>	<u>17</u>
10 min	<u>23.85</u>	<u>11.1</u>	<u>1595</u>	<u>0.33</u>	<u>6.55</u>	<u>-96.3</u>	<u>17</u>
15 min	<u>23.85</u>	<u>11.1</u>	<u>1596</u>	<u>0.33</u>	<u>6.55</u>	<u>-97.2</u>	<u>15</u>
20 min	<u>23.85</u>	<u>11.1</u>	<u>1598</u>	<u>0.33</u>	<u>6.55</u>	<u>-97.7</u>	<u>13</u>
25 min	<u>23.85</u>	<u>11.0</u>	<u>1595</u>	<u>0.30</u>	<u>6.55</u>	<u>-97.7</u>	<u>13</u>
30 min	<u>23.85</u>	<u>11.0</u>	<u>1595</u>	<u>0.33</u>	<u>6.55</u>	<u>-97.7</u>	<u>13</u>
35 min	_____	_____	_____	_____	_____	_____	_____
40 min	_____	_____	_____	_____	_____	_____	_____
45 min	_____	_____	_____	_____	_____	_____	_____
50 min	_____	_____	_____	_____	_____	_____	_____
55 min	_____	_____	_____	_____	_____	_____	_____
60 min	_____	_____	_____	_____	_____	_____	_____

Water Sample:

Time Collected 1020

Physical Appearance at Start _____

Physical Appearance at Sampling _____

Color Clear
 Odor NONE slight chemical odor
 Turbidity (> 100 NTU) 19
 Sheen/Free Product NONE
 Color Clear
 Odor slight chemical odor
 Turbidity (> 100 NTU) 13
 Sheen/Free Product NONE

Samples collected:

	# Bottles	Bottle size/type	Preservative	Field Filtered
Analyses	2	40 ml glass vials	HCl	no
VOCs	1	125 ml plastic	HNO ₃	
Arsenic, Lead, Barium, Zinc				

Notes: pumping rate: 140 ml/min

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 4/11/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. _____
 Personnel KBS

Weather cloudy
 Well # OBG-05-MW5
 Evacuation Method Peristaltic / Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * 28.18 ft.
 Depth to Water * 24.25 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal.(s)
 3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal.(s)
 Did well go dry? No

(Other, Specify) _____

* Measurements taken from Well Casing Protective Casing

Instrument Calibration:

Calibrated within range

pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured	Temperature Celsius	Conductivity uS/cm	Dissolved Oxygen mg/L	pH	ORP mV	Turbidity NTUs
initial	<u>24.34</u>	initial <u>10.3</u>	initial <u>1870</u>	initial <u>1.15</u>	initial <u>6.31</u>	initial <u>-44.6</u>	initial <u>457</u>
1050	<u>24.34</u>	<u>11.4</u>	<u>1667</u>	<u>0.600</u>	<u>6.27</u>	<u>-47.8</u>	<u>275</u>
1055	<u>24.34</u>	<u>11.6</u>	<u>1619</u>	<u>0.601</u>	<u>6.26</u>	<u>-51.2</u>	<u>98</u>
1100	<u>24.34</u>	<u>11.5</u>	<u>1617</u>	<u>0.61</u>	<u>6.26</u>	<u>-57.2</u>	<u>34</u>
1105	<u>24.34</u>	<u>11.5</u>	<u>1609</u>	<u>0.603</u>	<u>6.26</u>	<u>-49.8</u>	<u>27</u>
1110	<u>24.34</u>	<u>11.4</u>	<u>1602</u>	<u>0.603</u>	<u>6.26</u>	<u>-51.2</u>	<u>25</u>
1115	<u>24.34</u>	<u>11.5</u>	<u>1594</u>	<u>0.602</u>	<u>6.27</u>	<u>-52.3</u>	<u>25</u>
1120	<u>24.34</u>	<u>11.4</u>	<u>1594</u>	<u>0.61</u>	<u>6.26</u>	<u>-51.5</u>	<u>24</u>
1125	<u>24.34</u>	<u>11.4</u>	<u>1586</u>	<u>0.58</u>	<u>6.26</u>	<u>-52.6</u>	<u>23</u>
1130	<u>24.34</u>	<u>11.4</u>	<u>1590</u>	<u>0.61</u>	<u>6.26</u>	<u>-54.3</u>	<u>20</u>
	<u>24.34</u>	<u>11.4</u>	<u>1584</u>	<u>0.604</u>	<u>6.26</u>	<u>-53.4</u>	<u>20</u>
50 min	<u>24.34</u>	<u>11.4</u>	<u>1580</u>	<u>0.602</u>	<u>6.26</u>	<u>-53.8</u>	<u>19</u>
55 min	<u>24.34</u>	<u>11.4</u>					
60 min							

Water Sample:

Time Collected 1145

Physical Appearance at Start _____

Physical Appearance at Sampling _____

Color gray
 Odor slight chemical odor
 Turbidity (> 100 NTU) 457
 Sheen/Free Product slight sheen

Color clear
 Odor slight chemical odor
 Turbidity (> 100 NTU) 19
 Sheen/Free Product slight sheen

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	2	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes:

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 4/10/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. _____
 Personnel KBS

Weather cloudy
 Well # OBG-MW 55
 Evacuation Method Peristaltic / Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * 26.73 ft.
 Depth to Water * 14.90 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal.(s)
 3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 0 gal.(s)
 Did well go dry? NO
 (Other, Specify) _____

* Measurements taken from Well Casing Protective Casing

Instrument Calibration:

Calibrated within range

pH yes
 ORP yes
 Conductivity yes
 DO yes

Water parameters:

	Drawdown measured	Temperature Celsius	Conductivity uS/cm	Dissolved Oxygen mg/L	pH	ORP mV	Turbidity NTUs
initial	<u>15.20</u>	initial <u>14.3</u>	initial <u>2676</u>	initial <u>0.56</u>	initial <u>6.80</u>	initial <u>-48.9</u>	initial <u>192</u>
1610 5 min	<u>15.30</u>	<u>14.6</u>	<u>2606</u>	<u>0.35</u>	<u>6.78</u>	<u>-50.7</u>	<u>198</u>
1615 10 min	<u>15.41</u>	<u>14.9</u>	<u>2614</u>	<u>0.47</u>	<u>6.76</u>	<u>-50.3</u>	<u>197</u>
1620 15 min	<u>15.58</u>	<u>14.9</u>	<u>2597</u>	<u>0.39</u>	<u>6.76</u>	<u>-53.3</u>	<u>195</u>
1625 20 min	<u>15.83</u>	<u>15.3</u>	<u>2609</u>	<u>0.37</u>	<u>6.74</u>	<u>-52.0</u>	<u>178</u>
1630 25 min	<u>15.83</u>	<u>15.2</u>	<u>2599</u>	<u>0.38</u>	<u>6.72</u>	<u>-51.3</u>	<u>170</u>
1635 30 min	<u>15.90</u>	<u>15.1</u>	<u>2584</u>	<u>0.39</u>	<u>6.72</u>	<u>-52.5</u>	<u>158</u>
1640 35 min	<u>15.95</u>	<u>14.3</u>	<u>2558</u>	<u>0.38</u>	<u>6.72</u>	<u>-53.2</u>	<u>141</u>
1645 40 min	<u>16.08</u>	<u>13.2</u>	<u>2529</u>	<u>0.36</u>	<u>6.72</u>	<u>-55.4</u>	<u>124</u>
1650 45 min	<u>16.23</u>	<u>14.0</u>	<u>2600</u>	<u>0.38</u>	<u>6.73</u>	<u>-58.0</u>	<u>105</u>
1655 50 min	<u>16.20</u>	<u>14.1</u>	<u>2736</u>	<u>0.38</u>	<u>6.73</u>	<u>-58.4</u>	<u>89</u>
1700 55 min	<u>16.24</u>	<u>14.1</u>	<u>2972</u>	<u>0.40</u>	<u>6.76</u>	<u>-75.5</u>	<u>28</u>
1705 60 min	<u>16.30</u>	<u>14.0</u>	<u>2904</u>	<u>0.41</u>	<u>6.76</u>	<u>-76.8</u>	<u>54</u>
1710	<u>16.30</u>	<u>13.9</u>	<u>3051</u>	<u>0.43</u>	<u>6.77</u>	<u>-78.6</u>	<u>39</u>

Water Sample:

Time Collected 1730

Physical Appearance at Start _____

Physical Appearance at Sampling _____

Color yellowish
 Odor slight fuel odor
 Turbidity (> 100 NTU) 192
 Sheen/Free Product slight sheen

Color yellowish
 Odor slight fuel odor
 Turbidity (> 100 NTU) 36
 Sheen/Free Product slight sheen

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	2	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes: DOP-1 collected pumping rate: 90ml/min

OBG-MW 55

	DD	Temp	Con	DO	pH	ORP	Turb
1715	16.20	14.2	3127	0.46	6.77	-83.7	32
1720	16.32	13.7	3116	0.49	6.77	-82.9	34
1725							
1730	16.35	13.4	3058	0.50	6.77	-80.2	36

Sample collected 1730

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 10/17/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. 64740
 Personnel KBS

Weather Mostly Sunny 50's
 Well # OBG-MW-1
 Evacuation Method Peristaltic / Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * 27.20 ft.
 Depth to Water * 13.05 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal. (s)
 3X Volume of Water in Well _____ gal. (s)

Water Volume /ft. for:
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal. (s)
 Did well go dry? No
 (Other, Specify) _____

* Measurements taken from Well Casing Protective Casing _____

Instrument Calibration:

Calibrated within range

pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>13.70</u>	initial <u>14.8</u>	initial <u>1.29</u>	initial <u>2.43</u>	initial <u>6.70</u>	initial <u>42.7</u>	initial <u>9</u>
5 min	<u>14.20</u>	<u>15.7</u>	<u>1.27</u>	<u>1.55</u>	<u>6.79</u>	<u>-24.6</u>	<u>9</u>
10 min	<u>14.51</u>	<u>16.7</u>	<u>1.27</u>	<u>1.53</u>	<u>6.81</u>	<u>-30.6</u>	<u>10</u>
15 min	<u>14.81</u>	<u>15.7</u>	<u>1.25</u>	<u>1.48</u>	<u>6.85</u>	<u>-40.4</u>	<u>5</u>
20 min	<u>14.92</u>	<u>15.4</u>	<u>1.22</u>	<u>1.55</u>	<u>6.89</u>	<u>-41.7</u>	<u>5</u>
25 min	<u>15.10</u>	<u>15.6</u>	<u>1.21</u>	<u>1.53</u>	<u>6.91</u>	<u>-42.7</u>	<u>6</u>
30 min	<u>15.25</u>	<u>15.6</u>	<u>1.20</u>	<u>1.50</u>	<u>6.92</u>	<u>-44.0</u>	<u>4</u>
35 min	_____	_____	_____	_____	_____	_____	_____
40 min	_____	_____	_____	_____	_____	_____	_____
45 min	_____	_____	_____	_____	_____	_____	_____
50 min	_____	_____	_____	_____	_____	_____	_____
55 min	_____	_____	_____	_____	_____	_____	_____
60 min	_____	_____	_____	_____	_____	_____	_____

Water Sample:

Time Collected 930

Physical Appearance at Start _____ Physical Appearance at Sampling _____

Color clear Color clear
 Odor NONE Odor NONE
 Turbidity (> 100 NTU) 9 Turbidity (> 100 NTU) 4
 Sheen/Free Product NONE Sheen/Free Product NONE

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes:

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 10/17/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. 104740
 Personnel KBS

Weather Sunny 50's
 Well # OBG-MW 75
 Evacuation Method Peristaltic/ Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * 17.74 ft.
 Depth to Water * 8.17 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal.(s)
 3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 2 gal.(s)
 Did well go dry? NO

* Measurements taken from Well Casing Protective Casing (Other, Specify) _____

Instrument Calibration:

Calibrated within range

pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>8.89</u>	initial <u>15.2</u>	initial <u>1.25</u>	initial <u>1.38</u>	initial <u>6.23</u>	initial <u>-71.7</u>	initial <u>197</u>
945 5 min	<u>9.35</u>	<u>15.4</u>	<u>1.25</u>	<u>1.47</u>	<u>6.23</u>	<u>-76.6</u>	<u>118</u>
950 10 min	<u>9.71</u>	<u>15.4</u>	<u>1.26</u>	<u>1.35</u>	<u>6.25</u>	<u>-80.2</u>	<u>116</u>
955 15 min	<u>10.54</u>	<u>15.5</u>	<u>1.24</u>	<u>1.33</u>	<u>6.26</u>	<u>-77.6</u>	<u>88</u>
1000 20 min	<u>11.75</u>	<u>15.4</u>	<u>1.23</u>	<u>1.33</u>	<u>6.28</u>	<u>-77.9</u>	<u>83</u>
1005 25 min	<u>12.30</u>	<u>15.6</u>	<u>1.22</u>	<u>1.33</u>	<u>6.28</u>	<u>-76.4</u>	<u>54</u>
1010 30 min	<u>12.85</u>	<u>15.5</u>	<u>1.21</u>	<u>1.31</u>	<u>6.30</u>	<u>-76.0</u>	<u>51</u>
1015 35 min	<u>12.8</u>	<u>15.7</u>	<u>1.20</u>	<u>1.30</u>	<u>6.29</u>	<u>-74.4</u>	<u>35</u>
1020 40 min	<u>12.91</u>	<u>15.7</u>	<u>1.19</u>	<u>1.30</u>	<u>6.30</u>	<u>-73.9</u>	<u>25</u>
1025 45 min	<u>13.25</u>	<u>15.7</u>	<u>1.21</u>	<u>1.33</u>	<u>6.29</u>	<u>-74.6</u>	<u>20</u>
1030 50 min	<u>13.51</u>	<u>15.8</u>	<u>1.23</u>	<u>1.31</u>	<u>6.28</u>	<u>-76.2</u>	<u>16</u>
1035 55 min	<u>13.84</u>	<u>15.7</u>	<u>1.25</u>	<u>1.30</u>	<u>6.27</u>	<u>-78.6</u>	<u>13</u>
1040 60 min	<u>14.02</u>	<u>15.8</u>	<u>1.25</u>	<u>1.29</u>	<u>6.27</u>	<u>-79.4</u>	<u>15</u>

Water Sample:

Time Collected 1045

Physical Appearance at Start

Color light brown
 Odor None
 Turbidity (> 100 NTU) 197
 Sheen/Free Product None

Physical Appearance at Sampling

Color Slightly cloudy/clear
 Odor None
 Turbidity (> 100 NTU) 15
 Sheen/Free Product None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes:

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 10/17/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. 164740
 Personnel KBS

Weather mostly sunny 50's
 Well # 066 - MW 7D
 Evacuation Method Peristaltic / Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * 47.00 ft.
 Depth to Water * 13.15 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal.(s)
 3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:	
X	2" Diameter Well = 0.163 X LWC
	4" Diameter Well = 0.653 X LWC
	6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1/2 gal.(s)
 Did well go dry? No

* Measurements taken from Well Casing Protective Casing (Other, Specify) _____

Instrument Calibration:

Calibrated within range

pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

1055
1102
1105
1110
1115
1120
1125
1130

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>13.34</u>	initial <u>12.10</u>	initial <u>0.904</u>	initial <u>3.01</u>	initial <u>7.38</u>	initial <u>-96.5</u>	initial <u>140</u>
5 min	<u>13.40</u>	<u>12.5</u>	<u>0.554</u>	<u>1.50</u>	<u>7.43</u>	<u>-93.3</u>	<u>52</u>
10 min	<u>13.42</u>	<u>12.5</u>	<u>0.552</u>	<u>1.30</u>	<u>7.43</u>	<u>-93.8</u>	<u>23</u>
15 min	<u>13.42</u>	<u>12.5</u>	<u>0.552</u>	<u>1.31</u>	<u>7.43</u>	<u>-92.1</u>	<u>13</u>
20 min	<u>13.42</u>	<u>12.5</u>	<u>0.551</u>	<u>1.22</u>	<u>7.43</u>	<u>-94.0</u>	<u>14</u>
25 min	<u>13.42</u>	<u>12.5</u>	<u>0.551</u>	<u>1.00</u>	<u>7.44</u>	<u>-93.8</u>	<u>12</u>
30 min	<u>13.42</u>	<u>12.5</u>	<u>0.552</u>	<u>1.24</u>	<u>7.44</u>	<u>-94.9</u>	<u>9</u>
35 min	<u>13.42</u>	<u>12.5</u>	<u>0.551</u>	<u>1.17</u>	<u>7.44</u>	<u>-97.5</u>	<u>8</u>
40 min	_____	_____	_____	_____	_____	_____	_____
45 min	_____	_____	_____	_____	_____	_____	_____
50 min	_____	_____	_____	_____	_____	_____	_____
55 min	_____	_____	_____	_____	_____	_____	_____
60 min	_____	_____	_____	_____	_____	_____	_____

Water Sample:

Time Collected 1125

Physical Appearance at Start _____

Physical Appearance at Sampling _____

Color Slightly cloudy Color clear
 Odor None Odor None
 Turbidity (> 100 NTU) 140 Turbidity (> 100 NTU) 8
 Sheen/Free Product None Sheen/Free Product None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes.

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 10/17/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. 64740
 Personnel KBS

Weather Misty sunny 60's
 Well # OBG-MW 65
 Evacuation Method Peristaltic / Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * 19.16 ft.
 Depth to Water * 14.90 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal. (s)
 3X Volume of Water in Well _____ gal. (s)

Water Volume /ft. for:
X 2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal. (s)
 Did well go dry? NO

* Measurements taken from Well Casing Protective Casing (Other, Specify) _____

Instrument Calibration:

Calibrated within range

pH 4.5
 ORP 4.5
 Conductivity 4.5
 DO 4.5

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>15.16</u>	initial <u>14.7</u>	initial <u>1.37</u>	initial <u>2.28</u>	initial <u>6.53</u>	initial <u>45.8</u>	initial <u>20</u>
5 min	<u>15.46</u>	<u>14.8</u>	<u>1.37</u>	<u>2.50</u>	<u>6.57</u>	<u>45.3</u>	<u>14</u>
10 min	<u>15.95</u>	<u>15.2</u>	<u>1.38</u>	<u>2.33</u>	<u>6.59</u>	<u>45.9</u>	<u>9</u>
15 min	<u>16.00</u>	<u>16.2</u>	<u>1.38</u>	<u>2.31</u>	<u>6.60</u>	<u>44.9</u>	<u>12</u>
20 min	<u>16.10</u>	<u>16.5</u>	<u>1.40</u>	<u>2.49</u>	<u>6.62</u>	<u>41.0</u>	<u>10</u>
25 min	<u>16.19</u>	<u>16.4</u>	<u>1.40</u>	<u>2.61</u>	<u>6.63</u>	<u>36.3</u>	<u>12</u>
30 min	<u>16.23</u>	<u>16.3</u>	<u>1.46</u>	<u>2.51</u>	<u>6.63</u>	<u>35.2</u>	<u>11</u>
35 min	_____	_____	_____	_____	_____	_____	_____
40 min	_____	_____	_____	_____	_____	_____	_____
45 min	_____	_____	_____	_____	_____	_____	_____
50 min	_____	_____	_____	_____	_____	_____	_____
55 min	_____	_____	_____	_____	_____	_____	_____
60 min	_____	_____	_____	_____	_____	_____	_____

Water Sample:

Time Collected 1230

Physical Appearance at Start

Physical Appearance at Sampling

Color clear
 Odor NONE
 Turbidity (> 100 NTU) 20
 Sheen/Free Product NONE

Color clear
 Odor NONE
 Turbidity (> 100 NTU) 11
 Sheen/Free Product NONE

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	nc
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes:

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 10/17/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. 64740
 Personnel KBS

Weather mostly sunny co's
 Well # OB6-MW 6D
 Evacuation Method Peristaltic (Submersible pump)
 Sampling Method Low-flow

Well Information:

Depth of Well * 44.45 ft.
 Depth to Water * 18.30 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal. (s)
 3X Volume of Water in Well _____ gal. (s)

Water Volume /ft. for:
X 2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal. (s)
 Did well go dry? No

* Measurements taken from Well Casing Protective Casing (Other, Specify)

Instrument Calibration: Calibrated within range

pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>19.71</u>	initial <u>12.1</u>	initial <u>1.22</u>	initial <u>1.29</u>	initial <u>7.38</u>	initial <u>14.4</u>	initial <u>140</u>
<u>1250</u> 5 min	<u>20.85</u>	<u>12.3</u>	<u>0.89</u>	<u>0.82</u>	<u>7.38</u>	<u>2.6</u>	<u>59</u>
<u>1255</u> 10 min	<u>21.94</u>	<u>12.5</u>	<u>0.89</u>	<u>0.84</u>	<u>7.37</u>	<u>-12.2</u>	<u>32</u>
<u>1300</u> 15 min	<u>22.25</u>	<u>12.8</u>	<u>0.90</u>	<u>0.87</u>	<u>7.37</u>	<u>-30.0</u>	<u>27</u>
<u>1305</u> 20 min	<u>22.49</u>	<u>12.8</u>	<u>0.91</u>	<u>0.88</u>	<u>7.38</u>	<u>-51.2</u>	<u>16</u>
<u>1310</u> 25 min	<u>22.75</u>	<u>12.6</u>	<u>0.91</u>	<u>0.91</u>	<u>7.39</u>	<u>-59.4</u>	<u>12</u>
<u>1315</u> 30 min	<u>22.81</u>	<u>12.6</u>	<u>0.91</u>	<u>0.93</u>	<u>7.40</u>	<u>-65.8</u>	<u>11</u>
<u>1320</u> 35 min	<u>22.86</u>	<u>13.0</u>	<u>0.92</u>	<u>0.92</u>	<u>7.41</u>	<u>-68.9</u>	<u>10</u>
40 min							
45 min							
50 min							
55 min							
60 min							

Water Sample:

Time Collected 1325

Physical Appearance at Start

Physical Appearance at Sampling

Color Slightly cloudy / light gray
 Odor NONE
 Turbidity (> 100 NTU) 140
 Sheen/Free Product NONE

Color clear
 Odor NONE
 Turbidity (> 100 NTU) NONE
 Sheen/Free Product NONE

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes:

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 10/17/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. 104710
 Personnel KBS

Weather mostly sunny
 Well # OBG-MW 25
 Evacuation Method Peristaltic / Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * 20.30 ft.
 Depth to Water * 10.93 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal. (s)
 3X Volume of Water in Well _____ gal. (s)

Water Volume /ft. for:	
<input checked="" type="checkbox"/>	2" Diameter Well = 0.163 X LWC
<input type="checkbox"/>	4" Diameter Well = 0.653 X LWC
<input type="checkbox"/>	6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal. (s)
 Did well go dry? No

* Measurements taken from Well Casing Protective Casing (Other, Specify) _____

Instrument Calibration:

Calibrated within range

pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

13:50
13:55
14:00
14:05
14:10
14:15

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>11.36</u>	initial <u>18.2</u>	initial <u>21.35</u>	initial <u>1.54</u>	initial <u>6.75</u>	initial <u>-23.9</u>	initial <u>25</u>
5 min	<u>11.96</u>	<u>18.3</u>	<u>2.40</u>	<u>0.98</u>	<u>6.82</u>	<u>-53.4</u>	<u>15</u>
10 min	<u>12.58</u>	<u>18.4</u>	<u>2.40</u>	<u>1.18</u>	<u>6.36</u>	<u>-62.8</u>	<u>9</u>
15 min	<u>12.91</u>	<u>18.5</u>	<u>2.40</u>	<u>1.57</u>	<u>6.87</u>	<u>-66.4</u>	<u>12</u>
20 min	<u>13.20</u>	<u>18.5</u>	<u>2.40</u>	<u>1.76</u>	<u>6.88</u>	<u>-68.6</u>	<u>8</u>
25 min	<u>13.35</u>	<u>18.5</u>	<u>2.40</u>	<u>1.69</u>	<u>6.88</u>	<u>-69.2</u>	<u>5</u>
30 min	<u>13.89</u>	<u>18.1</u>	<u>2.40</u>	<u>1.71</u>	<u>6.89</u>	<u>-70.7</u>	<u>6</u>
35 min							
40 min							
45 min							
50 min							
55 min							
60 min							

Water Sample:

Time Collected 1420

Physical Appearance at Start	<u>Clear</u>	Physical Appearance at Sampling	<u>clear</u>
Color	_____	Color	_____
Odor	<u>NONE</u>	Odor	<u>NONE</u>
Turbidity (> 100 NTU)	<u>25</u>	Turbidity (> 100 NTU)	<u>6</u>
Sheen/Free Product	<u>NONE</u>	Sheen/Free Product	<u>NONE</u>

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes:

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 10/17/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. 64710
 Personnel KBS

Weather Mostly sunny w/s
 Well # 060-MW 2D
 Evacuation Method Peristaltic Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * 38.43 ft.
 Depth to Water * 20.05 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal.(s)
 3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
X 2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1/2 gal.(s)
 Did well go dry? No

* Measurements taken from Well Casing Protective Casing (Other, Specify) _____

Instrument Calibration:

Calibrated within range

pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>21.09</u>	initial <u>15.4</u>	initial <u>1.57</u>	initial <u>1.02</u>	initial <u>7.20</u>	initial <u>-96.1</u>	initial <u>50</u>
1435 5 min	<u>21.22</u>	<u>15.3</u>	<u>1.53</u>	<u>0.84</u>	<u>7.19</u>	<u>-102.8</u>	<u>31</u>
1440 10 min	<u>21.32</u>	<u>15.2</u>	<u>1.53</u>	<u>0.72</u>	<u>7.18</u>	<u>-105.4</u>	<u>22</u>
1445 15 min	<u>21.48</u>	<u>15.0</u>	<u>1.52</u>	<u>0.81</u>	<u>7.18</u>	<u>-103.6</u>	<u>11</u>
1450 20 min	<u>21.48</u>	<u>15.0</u>	<u>1.52</u>	<u>0.82</u>	<u>7.18</u>	<u>-97.8</u>	<u>11</u>
1455 25 min	<u>21.62</u>	<u>14.6</u>	<u>1.52</u>	<u>0.91</u>	<u>7.18</u>	<u>-97.8</u>	<u>10</u>
1500 30 min	<u>21.62</u>	<u>15.0</u>	<u>1.51</u>	<u>0.89</u>	<u>7.18</u>	<u>-99.9</u>	<u>11</u>
35 min							
40 min							
45 min							
50 min							
55 min							
60 min							

Water Sample:

Time Collected 1905

Physical Appearance at Start

Physical Appearance at Sampling

Color clear
 Odor NONE
 Turbidity (> 100 NTU) 50
 Sheen/Free Product NONE

Color clear
 Odor NONE
 Turbidity (> 100 NTU) 11
 Sheen/Free Product NONE

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes:

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 10/17/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. 64740
 Personnel KBS

Weather Mostly sunny 60's
 Well # OBG-MW 55
 Evacuation Method Peristaltic / Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * 20.12 ft.
 Depth to Water * 15.91 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal.(s)
 3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
X 2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 3 gal.(s)
 Did well go dry? NO

* Measurements taken from Well Casing Protective Casing (Other, Specify)

Instrument Calibration: Calibrated within range

pH yes
 ORP yes
 Conductivity yes
 DO yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>16.26</u>	initial <u>18.1</u>	initial <u>2.78</u>	initial <u>1.45</u>	initial <u>6.36</u>	initial <u>-61.8</u>	initial <u>15</u>
15:50 5 min	<u>16.70</u>	<u>17.7</u>	<u>2.77</u>	<u>1.49</u>	<u>6.40</u>	<u>-72.4</u>	<u>19</u>
15:55 10 min	<u>17.18</u>	<u>17.9</u>	<u>2.78</u>	<u>1.24</u>	<u>6.39</u>	<u>-75.1</u>	<u>15</u>
15:40 15 min	<u>17.25</u>	<u>17.9</u>	<u>2.82</u>	<u>1.32</u>	<u>6.38</u>	<u>-76.2</u>	<u>20</u>
15:45 20 min	<u>17.35</u>	<u>17.6</u>	<u>2.83</u>	<u>1.33</u>	<u>6.40</u>	<u>-77.8</u>	<u>45</u>
15:48 25 min	<u>17.44</u>	<u>17.3</u>	<u>2.90</u>	<u>1.20</u>	<u>6.42</u>	<u>-84.2</u>	<u>65</u>
15:52 30 min	<u>17.55</u>	<u>16.9</u>	<u>3.03</u>	<u>1.25</u>	<u>6.43</u>	<u>-86.4</u>	<u>49</u>
16:04 35 min	<u>17.62</u>	<u>16.7</u>	<u>3.17</u>	<u>1.32</u>	<u>6.44</u>	<u>-89.2</u>	<u>33</u>
16:05 40 min	<u>17.69</u>	<u>16.5</u>	<u>3.27</u>	<u>1.32</u>	<u>6.45</u>	<u>-91.7</u>	<u>23</u>
16:10 45 min	<u>17.69</u>	<u>16.8</u>	<u>3.33</u>	<u>1.33</u>	<u>6.46</u>	<u>-93.3</u>	<u>20</u>
16:15 50 min	<u>17.89</u>	<u>16.2</u>	<u>3.37</u>	<u>1.34</u>	<u>6.44</u>	<u>-95.1</u>	<u>15</u>
16:20 55 min	<u>17.95</u>	<u>16.4</u>	<u>3.40</u>	<u>1.21</u>	<u>6.46</u>	<u>-96.8</u>	<u>17</u>
16:25 60 min	<u>17.95</u>	<u>16.6</u>	<u>3.35</u>	<u>1.19</u>	<u>6.46</u>	<u>-98.8</u>	<u>16</u>

Water Sample:

Time Collected 1630

Physical Appearance at Start

Color Yellowish
 Odor chemical odor
 Turbidity (> 100 NTU) 15
 Sheen/Free Product Slight sheen

Physical Appearance at Sampling

Color Slightly yellowish
 Odor chemical odor
 Turbidity (> 100 NTU) 16
 Sheen/Free Product Slight sheen

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes:

* DUP-1 collected
 lock out and tubing on ground
 replaced lock and tubing

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 10/18/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. 64740
 Personnel KBS

Weather Sunny 60's
 Well # 066-05-MW 3
 Evacuation Method Peristaltic / Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * 30.26 ft.
 Depth to Water * 20.35 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal.(s)
 3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1/2 gal.(s)
 Did well go dry? NO

* Measurements taken from Well Casing Protective Casing (Other, Specify) _____

Instrument Calibration:

Calibrated within range

pH YES
 ORP YES
 Conductivity YES
 DO YES

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>26.36</u>	initial <u>12.0</u>	initial <u>1.87</u>	initial <u>2.22</u>	initial <u>6.30</u>	initial <u>-47.9</u>	initial <u>38</u>
8:30 5 min	<u>26.36</u>	<u>11.8</u>	<u>1.90</u>	<u>1.83</u>	<u>6.39</u>	<u>-60.0</u>	<u>34</u>
8:55 10 min	<u>26.36</u>	<u>11.8</u>	<u>1.93</u>	<u>1.60</u>	<u>6.47</u>	<u>-76.0</u>	<u>22</u>
9:00 15 min	<u>26.36</u>	<u>12.0</u>	<u>1.92</u>	<u>1.30</u>	<u>6.50</u>	<u>-80.2</u>	<u>17</u>
9:05 20 min	<u>26.36</u>	<u>12.4</u>	<u>1.92</u>	<u>1.30</u>	<u>6.49</u>	<u>-81.0</u>	<u>14</u>
9:15 25 min	<u>26.36</u>	<u>12.0</u>	<u>1.92</u>	<u>1.28</u>	<u>6.50</u>	<u>-83.0</u>	<u>14</u>
9:20 30 min	<u>26.36</u>	<u>12.0</u>	<u>1.92</u>	<u>1.30</u>	<u>6.51</u>	<u>-85.2</u>	<u>15</u>
9:25 35 min							
40 min							
45 min							
50 min							
55 min							
60 min							

Water Sample:

Time Collected 9:25

Physical Appearance at Start

Physical Appearance at Sampling

Color slightly cloudy
 Odor NONE
 Turbidity (> 100 NTU) 38
 Sheen/Free Product NONE

Color clear
 Odor NONE
 Turbidity (> 100 NTU) 15
 Sheen/Free Product NONE

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes:

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 10/18/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. 64740
 Personnel KBS

Weather Mostly Sunny 80's
 Well # OBC-05-MW4
 Evacuation Method Peristaltic / Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * 27.76 ft.
 Depth to Water * 24.70 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal.(s)
 3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:	
X	2" Diameter Well = 0.163 X LWC
	4" Diameter Well = 0.653 X LWC
	6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1/2 gal.(s)
 Did well go dry? No

* Measurements taken from Well Casing Protective Casing (Other, Specify) _____

Instrument Calibration:

Calibrated within range

pH 4.5
 ORP 4.5
 Conductivity 4.5
 DO 4.5

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>24.70</u>	initial <u>13.10</u>	initial <u>2.16</u>	initial <u>0.83</u>	initial <u>6.46</u>	initial <u>-63.9</u>	initial <u>0</u>
5 min	<u>24.70</u>	<u>12.8</u>	<u>2.14</u>	<u>0.93</u>	<u>6.48</u>	<u>-67.9</u>	<u>0</u>
10 min	<u>24.70</u>	<u>14.0</u>	<u>2.13</u>	<u>0.96</u>	<u>6.51</u>	<u>-78.1</u>	<u>0</u>
15 min	<u>24.70</u>	<u>13.9</u>	<u>2.14</u>	<u>0.98</u>	<u>6.51</u>	<u>-77.9</u>	<u>0</u>
20 min	<u>24.70</u>	<u>13.6</u>	<u>2.12</u>	<u>0.96</u>	<u>6.51</u>	<u>-80.5</u>	<u>0</u>
25 min	<u>24.70</u>	<u>13.5</u>	<u>2.13</u>	<u>1.02</u>	<u>6.51</u>	<u>-81.3</u>	<u>0</u>
30 min	<u>24.70</u>	<u>13.4</u>	<u>2.12</u>	<u>1.10</u>	<u>6.51</u>	<u>-81.0</u>	<u>0</u>
35 min	_____	_____	_____	_____	_____	_____	_____
40 min	_____	_____	_____	_____	_____	_____	_____
45 min	_____	_____	_____	_____	_____	_____	_____
50 min	_____	_____	_____	_____	_____	_____	_____
55 min	_____	_____	_____	_____	_____	_____	_____
60 min	_____	_____	_____	_____	_____	_____	_____

Water Sample:

Time Collected 1610

Physical Appearance at Start

Physical Appearance at Sampling

Color Clear
 Odor NONE
 Turbidity (> 100 NTU) 0
 Sheen/Free Product NONE

Color Clear
 Odor NONE
 Turbidity (> 100 NTU) 0
 Sheen/Free Product NONE

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes:

lock out tubing on ground
 replaced lock and tubing

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 10/15/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. 104740
 Personnel KBS

Weather Sunny 60s
 Well # 036-05-MW5
 Evacuation Method Peristaltic / Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * 28.15 ft.
 Depth to Water * 25.06 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal. (s)
 3X Volume of Water in Well _____ gal. (s)

Water Volume /ft. for:
X 2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 1/2 gal. (s)
 Did well go dry? NO

* Measurements taken from Well Casing Protective Casing (Other, Specify)

Instrument Calibration: Calibrated within range

pH 4.5
 ORP 4.5
 Conductivity 4.5
 DO 4.5

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>25.06</u>	initial <u>15.0</u>	initial <u>2.80</u>	initial <u>2.09</u>	initial <u>6.29</u>	initial <u>-37.8</u>	initial <u>66</u>
5 min	<u>25.06</u>	<u>14.4</u>	<u>2.75</u>	<u>0.99</u>	<u>6.30</u>	<u>-50.6</u>	<u>30</u>
10 min	<u>25.06</u>	<u>14.2</u>	<u>2.69</u>	<u>1.14</u>	<u>6.29</u>	<u>-53.1</u>	<u>29</u>
15 min	<u>25.06</u>	<u>14.1</u>	<u>2.65</u>	<u>1.19</u>	<u>6.29</u>	<u>-54.2</u>	<u>16</u>
20 min	<u>25.06</u>	<u>14.2</u>	<u>2.57</u>	<u>1.25</u>	<u>6.27</u>	<u>-54.7</u>	<u>20</u>
25 min	<u>25.06</u>	<u>14.0</u>	<u>2.50</u>	<u>1.26</u>	<u>6.25</u>	<u>-54.9</u>	<u>12</u>
30 min	<u>25.06</u>	<u>13.2</u>	<u>2.39</u>	<u>1.41</u>	<u>6.23</u>	<u>-123.8</u>	<u>8</u>
35 min	<u>25.06</u>	<u>13.6</u>	<u>2.38</u>	<u>1.23</u>	<u>6.23</u>	<u>-146.1</u>	<u>11</u>
40 min	<u>25.06</u>	<u>14.7</u>	<u>2.38</u>	<u>1.12</u>	<u>6.23</u>	<u>-152.5</u>	<u>10</u>
45 min	<u>25.06</u>	<u>14.9</u>	<u>2.37</u>	<u>1.19</u>	<u>6.23</u>	<u>-175.5</u>	<u>8</u>
50 min	<u>25.06</u>	<u>15.1</u>	<u>2.35</u>	<u>1.18</u>	<u>6.23</u>	<u>-182.3</u>	<u>9</u>
55 min	<u>25.06</u>	<u>15.0</u>	<u>2.34</u>	<u>1.17</u>	<u>6.22</u>	<u>-184.7</u>	<u>9</u>
60 min							

Water Sample:

Time Collected 1125

Physical Appearance at Start <input type="checkbox"/>	Physical Appearance at Sampling <input type="checkbox"/>
Color _____	Color <u>clear</u>
Odor _____	Odor <u>chemical odor</u>
Turbidity (> 100 NTU) _____	Turbidity (> 100 NTU) <u>0</u>
Sheen/Free Product _____	Sheen/Free Product <u>NONE</u>

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes:

lock cut tubing on ground
replaced lock and tubing

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 10/18/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. 64740
 Personnel KBS

Weather SUNNY 60's
 Well # 086-05-MW1
 Evacuation Method Peristaltic / Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * 30.15 ft.
 Depth to Water * 32.10 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal.(s)
 3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal.(s)
 Did well go dry? No
 (Other, Specify) _____

* Measurements taken from Well Casing Protective Casing _____

Instrument Calibration:

Calibrated within range
 pH 4.1
 ORP 4.5
 Conductivity 4.5
 DO 4.5

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>22.29</u>	initial <u>17.0</u>	initial <u>0.480</u>	initial <u>3.87</u>	initial <u>6.58</u>	initial <u>-21.8</u>	initial <u>152</u>
1159 5 min	<u>22.61</u>	<u>13.7</u>	<u>1.13</u>	<u>0.83</u>	<u>6.57</u>	<u>-55.3</u>	<u>74</u>
1205 10 min	<u>22.91</u>	<u>14.1</u>	<u>1.09</u>	<u>0.80</u>	<u>6.55</u>	<u>-57.2</u>	<u>47</u>
1205 15 min	<u>23.05</u>	<u>14.3</u>	<u>1.08</u>	<u>0.82</u>	<u>6.55</u>	<u>-58.3</u>	<u>30</u>
1210 20 min	<u>23.28</u>	<u>14.0</u>	<u>1.07</u>	<u>0.84</u>	<u>6.55</u>	<u>-59.0</u>	<u>19</u>
1215 25 min	<u>23.35</u>	<u>15.1</u>	<u>1.07</u>	<u>0.84</u>	<u>6.54</u>	<u>-61.5</u>	<u>20</u>
1220 30 min	<u>23.80</u>	<u>13.7</u>	<u>1.07</u>	<u>0.88</u>	<u>6.54</u>	<u>-62.3</u>	<u>19</u>
1225 35 min	<u>24.03</u>	<u>13.8</u>	<u>1.08</u>	<u>0.87</u>	<u>6.54</u>	<u>-64.1</u>	<u>18</u>
1230 40 min	_____	_____	_____	_____	_____	_____	_____
45 min	_____	_____	_____	_____	_____	_____	_____
50 min	_____	_____	_____	_____	_____	_____	_____
55 min	_____	_____	_____	_____	_____	_____	_____
60 min	_____	_____	_____	_____	_____	_____	_____

Water Sample:

Time Collected 1230

Physical Appearance at Start _____
clear/slightly cloudy

Physical Appearance at Sampling _____
clear

Color _____
 Odor NONE
 Turbidity (> 100 NTU) 18
 Sheen/Free Product NONE

Color _____
 Odor NONE
 Turbidity (> 100 NTU) 18
 Sheen/Free Product NONE

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes:

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 10/18/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. 104740
 Personnel KBS

Weather SUNNY 60's
 Well # OBG-05-MW 2
 Evacuation Method Peristaltic / Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * 30.00 ft.
 Depth to Water * 21.48 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal.(s)
 3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
X 2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling Yes gal.(s)
 Did well go dry? No

* Measurements taken from Well Casing Protective Casing (Other, Specify) _____

Instrument Calibration:

Calibrated within range

pH Yes
 ORP Yes
 Conductivity Yes
 DO Yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>21.64</u>	initial <u>14.3</u>	initial <u>1.10</u>	initial <u>0.73</u>	initial <u>6.50</u>	initial <u>-54.7</u>	initial <u>27</u>
1320 5 min	<u>21.70</u>	<u>14.1</u>	<u>1.07</u>	<u>0.41</u>	<u>6.50</u>	<u>-51.0</u>	<u>25</u>
1325 10 min	<u>22.02</u>	<u>14.4</u>	<u>1.06</u>	<u>0.39</u>	<u>6.50</u>	<u>-55.6</u>	<u>26</u>
1300 15 min	<u>22.26</u>	<u>14.4</u>	<u>1.06</u>	<u>0.43</u>	<u>6.57</u>	<u>-57.8</u>	<u>20</u>
1305 20 min	<u>22.84</u>	<u>14.6</u>	<u>1.05</u>	<u>0.50</u>	<u>6.50</u>	<u>-60.5</u>	<u>15</u>
1310 25 min	<u>23.09</u>	<u>14.7</u>	<u>1.05</u>	<u>0.52</u>	<u>6.50</u>	<u>-61.9</u>	<u>12</u>
1315 30 min	<u>23.34</u>	<u>14.7</u>	<u>1.05</u>	<u>0.54</u>	<u>6.37</u>	<u>-63.3</u>	<u>14</u>
1320 35 min	<u>23.45</u>	<u>14.8</u>	<u>1.05</u>	<u>0.50</u>	<u>6.50</u>	<u>-64.0</u>	<u>15</u>
40 min	_____	_____	_____	_____	_____	_____	_____
45 min	_____	_____	_____	_____	_____	_____	_____
50 min	_____	_____	_____	_____	_____	_____	_____
55 min	_____	_____	_____	_____	_____	_____	_____
60 min	_____	_____	_____	_____	_____	_____	_____

Water Sample:

Time Collected 1325

Physical Appearance at Start

Physical Appearance at Sampling

Color clear
 Odor NONE
 Turbidity (> 100 NTU) 27
 Sheen/Free Product NONE

Color clear
 Odor NONE
 Turbidity (> 100 NTU) 15
 Sheen/Free Product NONE

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes:

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 10/18/17
 Site Name RACER Site #1291 - Burton Parcel
 Location Burton, MI
 Project No. 04740
 Personnel KBS

Weather Sunny 60's
 Well # OBG-MW 35
 Evacuation Method Peristaltic / Submersible pump
 Sampling Method Low-flow

Well Information:

Depth of Well * 27. ft.
 Depth to Water * 23.15 ft.
 Length of Water Column _____ ft.
 Volume of Water in Well _____ gal.(s)
 3X Volume of Water in Well _____ gal.(s)

Water Volume /ft. for:
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 18 gal.(s)
 Did well go dry? no

(Other, Specify) _____

* Measurements taken from Well Casing Protective Casing _____

Instrument Calibration:

Calibrated within range

pH 4.9
 ORP 4.6
 Conductivity 4.5
 DO 2.1

Water parameters:

1345
1350
1355
1400
1405
1410
1415
1420

	Drawdown measured	Temperature Celsius	Conductivity uS/cm	Dissolved Oxygen mg/L	pH	ORP mV	Turbidity NTUs
initial	<u>23.20</u>	initial <u>18.5</u>	initial <u>3.25</u>	initial <u>0.90</u>	initial <u>6.70</u>	initial <u>33.9</u>	initial <u>0.5</u>
5 min	<u>23.30</u>	<u>18.0</u>	<u>3.21</u>	<u>0.46</u>	<u>6.78</u>	<u>11.0</u>	<u>4</u>
10 min	<u>23.20</u>	<u>18.1</u>	<u>3.26</u>	<u>0.47</u>	<u>6.77</u>	<u>2.2</u>	<u>26</u>
15 min	<u>23.20</u>	<u>18.3</u>	<u>3.13</u>	<u>0.44</u>	<u>6.72</u>	<u>-6.1</u>	<u>20</u>
20 min	<u>23.20</u>	<u>18.3</u>	<u>3.07</u>	<u>0.48</u>	<u>6.71</u>	<u>-10.2</u>	<u>19</u>
25 min	<u>23.20</u>	<u>18.3</u>	<u>3.28</u>	<u>0.52</u>	<u>6.70</u>	<u>-13.0</u>	<u>15</u>
30 min	<u>23.20</u>	<u>18.4</u>	<u>3.08</u>	<u>0.52</u>	<u>6.70</u>	<u>-14.1</u>	<u>11</u>
35 min	<u>23.20</u>	<u>17.8</u>	<u>3.03</u>	<u>0.50</u>	<u>6.68</u>	<u>-16.4</u>	<u>9</u>
40 min	<u>23.20</u>	<u>18.0</u>	<u>3.02</u>	<u>0.50</u>	<u>6.65</u>	<u>-17.4</u>	<u>9</u>
45 min	<u>23.30</u>	<u>18.0</u>	<u>2.99</u>	<u>0.57</u>	<u>6.65</u>	<u>-18.5</u>	<u>9</u>
50 min	_____	_____	_____	_____	_____	_____	_____
55 min	_____	_____	_____	_____	_____	_____	_____
60 min	_____	_____	_____	_____	_____	_____	_____

Water Sample:

Time Collected 1430

Physical Appearance at Start

Physical Appearance at Sampling

Color rust globs
 Odor NONE
 Turbidity (> 100 NTU) 105
 Sheen/Free Product NONE

Color clear
 Odor NONE
 Turbidity (> 100 NTU) 9
 Sheen/Free Product NONE

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	2	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO ₃	

Notes:



Exhibit B
Groundwater Analytical
Data
April 2017



Analytical Laboratory Report

Report ID: S80519.01(01)
Generated on 04/14/2017

Report to

Attention: Tony Finch
O'Brien & Gere Engineers, Inc.
37000 Grand River Ave.
Suite 260
Farmington, MI 48335

Phone: 248-477-5701 FAX:
Email: Anthony.Finch@obg.com

Report produced by

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Report Summary

Lab Sample ID(s): S80519.01-S80519.21
Project: RACER Hemphill Rd Industrial Land
Collected Date: 04/10/2017 - 04/11/2017
Submitted Date/Time: 04/12/2017 08:40
Sampled by: Kevin Schneider
P.O. #: 11700374

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Maya Murshak
Technical Director



Analytical Laboratory Report

General Report Notes

Analytical results relate only to the samples tested, in the condition 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).

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.

QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.

Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.

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.

Report Narrative

There is no additional narrative for this analytical report



Analytical Laboratory Report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods



Analytical Laboratory Report

Method Summary

Method	Version
E200.8	EPA Method 200.8 Revision 5.4
N/A	Not Applicable
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW5030C/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5030C Revision 3 May 2003



Analytical Laboratory Report

Sample Summary (21 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S80519.01	OBG-MW1S	Groundwater	04/10/17 09:10
S80519.02	OBG-MW7S	Groundwater	04/10/17 10:35
S80519.03	OBG-MW7D	Groundwater	04/10/17 12:00
S80519.04	OBG-MW6S	Groundwater	04/10/17 13:05
S80519.05	OBG-MW6D	Groundwater	04/10/17 14:10
S80519.06	OBG-MW2S	Groundwater	04/10/17 15:10
S80519.07	OBG-MW2D	Groundwater	04/10/17 15:55
S80519.08	OBG-MW5S	Groundwater	04/10/17 17:30
S80519.09	Dup-1	Groundwater	04/10/17 00:01
S80519.10	OBG-OS-MW3	Groundwater	04/11/17 09:15
S80519.11	OBG-OS-MW4	Groundwater	04/11/17 10:20
S80519.12	OBG-OS-MW4 Collocated	Groundwater	04/11/17 10:20
S80519.13	OBG-OS-MW5	Groundwater	04/11/17 11:45
S80519.14	OBG-MW3S	Groundwater	04/11/17 13:20
S80519.15	OBG-MW3S MS	Groundwater	04/11/17 13:20
S80519.16	OBG-MW3S MSD	Groundwater	04/11/17 13:20
S80519.17	Field Blank -1	Liquid	04/11/17 13:35
S80519.18	OBG-OS-MW1	Groundwater	04/11/17 15:40
S80519.19	OBG-OS-MW2	Groundwater	04/11/17 16:45
S80519.20	Equipment Blank - 1	Liquid	04/11/17 17:00
S80519.21	Trip Blank	Liquid	04/11/17 00:01



Analytical Laboratory Report

Lab Sample ID: S80519.01
 Sample Tag: OBG-MW1S
 Collected Date/Time: 04/10/2017 09:10
 Matrix: Groundwater
 COC Reference: 52122

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	3.8	IR
3	40ml Glass	HCL	Yes	3.8	IR

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

Metal Digestion	Completed			SW3015A	04/13/17 10:00	CCM		
pH check for VOCs*	<2	STD Units		N/A	04/13/17 12:45	KCV		

Metals

Arsenic	Not detected	mg/L	0.002	E200.8	04/13/17 12:01	CCM	7440-38-2	
Barium	0.151	mg/L	0.005	E200.8	04/13/17 12:01	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/13/17 12:01	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/13/17 12:01	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	04/13/17 12:01	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	04/13/17 02:35	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 02:35	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:35	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:35	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	04/13/17 02:35	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	04/13/17 02:35	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:35	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:35	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:35	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:35	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:35	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	04/13/17 02:35	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	04/13/17 02:35	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 02:35	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S80519.01 (continued)

Sample Tag: OBG-MW1S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:35	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:35	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	04/13/17 02:35	JML		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:35	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:35	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:35	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:35	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:35	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:35	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:35	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:35	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:35	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S80519.02
 Sample Tag: OBG-MW7S
 Collected Date/Time: 04/10/2017 10:35
 Matrix: Groundwater
 COC Reference: 52122

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	3.8	IR
3	40ml Glass	HCL	Yes	3.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	04/13/17 10:00	CCM		
Metal Digestion	Completed			SW3015A	04/13/17 10:00	CCM		
pH check for VOCs*	<2	STD Units		N/A	04/13/17 12:45	KCV		
Metals								
Arsenic, Dissolved	0.006	mg/L	0.002	E200.8	04/13/17 12:03	CCM	7440-38-2	
Arsenic	0.014	mg/L	0.002	E200.8	04/13/17 12:02	CCM	7440-38-2	
Barium, Dissolved	0.152	mg/L	0.005	E200.8	04/13/17 12:03	CCM	7440-39-3	
Barium	0.194	mg/L	0.005	E200.8	04/13/17 12:02	CCM	7440-39-3	
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	04/13/17 12:03	CCM	7439-92-1	
Lead	Not detected	mg/L	0.003	E200.8	04/13/17 12:02	CCM	7439-92-1	
Selenium, Dissolved	Not detected	mg/L	0.005	E200.8	04/13/17 12:03	CCM	7782-49-2	
Selenium	Not detected	mg/L	0.005	E200.8	04/13/17 12:02	CCM	7782-49-2	
Zinc, Dissolved	Not detected	mg/L	0.005	E200.8	04/13/17 12:03	CCM	7440-66-6	
Zinc	Not detected	mg/L	0.005	E200.8	04/13/17 12:02	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	04/13/17 02:56	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 02:56	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:56	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:56	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	04/13/17 02:56	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	04/13/17 02:56	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:56	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:56	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:56	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:56	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:56	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	04/13/17 02:56	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	04/13/17 02:56	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 02:56	JML	591-78-6	



Analytical Laboratory Report

Lab Sample ID: S80519.02 (continued)

Sample Tag: OBG-MW7S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:56	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:56	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	04/13/17 02:56	JML		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:56	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:56	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 02:56	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:56	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:56	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:56	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:56	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:56	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 02:56	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S80519.03
 Sample Tag: OBG-MW7D
 Collected Date/Time: 04/10/2017 12:00
 Matrix: Groundwater
 COC Reference: 52122

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	3.8	IR
3	40ml Glass	HCL	Yes	3.8	IR

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

Metal Digestion	Completed			SW3015A	04/13/17 10:00	CCM		
pH check for VOCs*	<2	STD Units		N/A	04/13/17 12:45	KCV		

Metals

Arsenic	0.032	mg/L	0.002	E200.8	04/13/17 12:05	CCM	7440-38-2	
Barium	0.092	mg/L	0.005	E200.8	04/13/17 12:05	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/13/17 12:05	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/13/17 12:05	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	04/13/17 12:05	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	04/13/17 03:18	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 03:18	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:18	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:18	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	04/13/17 03:18	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	04/13/17 03:18	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:18	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:18	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:18	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:18	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:18	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	04/13/17 03:18	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	04/13/17 03:18	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 03:18	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S80519.03 (continued)

Sample Tag: OBG-MW7D

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:18	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:18	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	04/13/17 03:18	JML		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:18	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:18	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:18	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:18	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:18	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:18	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:18	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:18	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:18	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S80519.04
 Sample Tag: OBG-MW6S
 Collected Date/Time: 04/10/2017 13:05
 Matrix: Groundwater
 COC Reference: 52122

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	3.8	IR
3	40ml Glass	HCL	Yes	3.8	IR

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

Metal Digestion	Completed			SW3015A	04/13/17 10:00	CCM		
pH check for VOCs*	<2	STD Units		N/A	04/13/17 12:45	KCV		

Metals

Arsenic	0.006	mg/L	0.002	E200.8	04/13/17 12:05	CCM	7440-38-2	
Barium	0.144	mg/L	0.005	E200.8	04/13/17 12:05	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/13/17 12:05	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/13/17 12:05	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	04/13/17 12:05	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	04/13/17 03:39	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 03:39	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:39	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:39	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	04/13/17 03:39	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	04/13/17 03:39	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:39	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:39	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:39	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:39	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:39	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	04/13/17 03:39	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	04/13/17 03:39	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 03:39	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S80519.04 (continued)

Sample Tag: OBG-MW6S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:39	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:39	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	04/13/17 03:39	JML		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:39	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:39	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 03:39	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:39	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:39	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:39	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:39	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:39	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 03:39	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S80519.05
 Sample Tag: OBG-MW6D
 Collected Date/Time: 04/10/2017 14:10
 Matrix: Groundwater
 COC Reference: 52122

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	3.8	IR
3	40ml Glass	HCL	Yes	3.8	IR

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

Metal Digestion	Completed			SW3015A	04/13/17 10:00	CCM		
pH check for VOCs*	<2	STD Units		N/A	04/13/17 12:45	KCV		

Metals

Arsenic	0.019	mg/L	0.002	E200.8	04/13/17 12:06	CCM	7440-38-2	
Barium	0.073	mg/L	0.005	E200.8	04/13/17 12:06	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/13/17 12:06	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/13/17 12:06	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	04/13/17 12:06	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	04/13/17 04:01	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 04:01	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:01	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:01	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	04/13/17 04:01	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	04/13/17 04:01	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:01	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:01	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:01	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:01	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:01	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	04/13/17 04:01	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	04/13/17 04:01	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 04:01	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S80519.05 (continued)

Sample Tag: OBG-MW6D

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:01	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:01	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	04/13/17 04:01	JML		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:01	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:01	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:01	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:01	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:01	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:01	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:01	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:01	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:01	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S80519.06
 Sample Tag: OBG-MW2S
 Collected Date/Time: 04/10/2017 15:10
 Matrix: Groundwater
 COC Reference: 52122

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	3.8	IR
3	40ml Glass	HCL	Yes	3.8	IR

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

Metal Digestion	Completed			SW3015A	04/13/17 10:00	CCM		
pH check for VOCs*	<2	STD Units		N/A	04/13/17 12:45	KCV		

Metals

Arsenic	0.014	mg/L	0.002	E200.8	04/13/17 12:07	CCM	7440-38-2	
Barium	0.158	mg/L	0.005	E200.8	04/13/17 12:07	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/13/17 12:07	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/13/17 12:07	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	04/13/17 12:07	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	04/13/17 04:22	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 04:22	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:22	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:22	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	04/13/17 04:22	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	04/13/17 04:22	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:22	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:22	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:22	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:22	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:22	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	04/13/17 04:22	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	04/13/17 04:22	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 04:22	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S80519.06 (continued)

Sample Tag: OBG-MW2S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:22	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:22	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	04/13/17 04:22	JML		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:22	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:22	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:22	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:22	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:22	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:22	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:22	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:22	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:22	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S80519.07
 Sample Tag: OBG-MW2D
 Collected Date/Time: 04/10/2017 15:55
 Matrix: Groundwater
 COC Reference: 52122

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	3.8	IR
3	40ml Glass	HCL	Yes	3.8	IR

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

Metal Digestion	Completed			SW3015A	04/13/17 10:00	CCM		
pH check for VOCs*	<2	STD Units		N/A	04/13/17 12:45	KCV		

Metals

Arsenic	0.018	mg/L	0.002	E200.8	04/13/17 12:08	CCM	7440-38-2	
Barium	0.247	mg/L	0.005	E200.8	04/13/17 12:08	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/13/17 12:08	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/13/17 12:08	CCM	7782-49-2	
Zinc	0.009	mg/L	0.005	E200.8	04/13/17 12:08	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	04/13/17 04:43	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 04:43	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:43	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:43	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	04/13/17 04:43	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	04/13/17 04:43	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:43	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:43	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:43	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:43	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:43	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	04/13/17 04:43	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	04/13/17 04:43	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 04:43	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S80519.07 (continued)

Sample Tag: OBG-MW2D

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:43	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:43	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	04/13/17 04:43	JML		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:43	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:43	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 04:43	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:43	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:43	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:43	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:43	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:43	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 04:43	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S80519.08
 Sample Tag: OBG-MW5S
 Collected Date/Time: 04/10/2017 17:30
 Matrix: Groundwater
 COC Reference: 52122

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	3.8	IR
3	40ml Glass	HCL	Yes	3.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	04/13/17 10:00	CCM		
Metal Digestion	Completed			SW3015A	04/13/17 10:00	CCM		
pH check for VOCs*	<2	STD Units		N/A	04/13/17 12:45	KCV		
Metals								
Arsenic, Dissolved	0.002	mg/L	0.002	E200.8	04/13/17 12:09	CCM	7440-38-2	
Arsenic	0.003	mg/L	0.002	E200.8	04/13/17 12:08	CCM	7440-38-2	
Barium, Dissolved	1.19	mg/L	0.005	E200.8	04/13/17 12:09	CCM	7440-39-3	
Barium	1.23	mg/L	0.005	E200.8	04/13/17 12:08	CCM	7440-39-3	
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	04/13/17 12:09	CCM	7439-92-1	
Lead	Not detected	mg/L	0.003	E200.8	04/13/17 12:08	CCM	7439-92-1	
Selenium, Dissolved	Not detected	mg/L	0.005	E200.8	04/13/17 12:09	CCM	7782-49-2	
Selenium	Not detected	mg/L	0.005	E200.8	04/13/17 12:08	CCM	7782-49-2	
Zinc, Dissolved	Not detected	mg/L	0.005	E200.8	04/13/17 12:09	CCM	7440-66-6	
Zinc	0.011	mg/L	0.005	E200.8	04/13/17 12:08	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	04/13/17 05:04	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 05:04	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:04	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:04	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	04/13/17 05:04	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	04/13/17 05:04	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:04	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:04	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:04	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:04	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:04	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	04/13/17 05:04	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	04/13/17 05:04	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 05:04	JML	591-78-6	



Analytical Laboratory Report

Lab Sample ID: S80519.08 (continued)

Sample Tag: OBG-MW5S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:04	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:04	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	04/13/17 05:04	JML		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:04	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:04	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:04	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:04	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:04	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:04	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:04	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:04	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:04	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S80519.09
 Sample Tag: Dup-1
 Collected Date/Time: 04/10/2017 00:01
 Matrix: Groundwater
 COC Reference: 52122

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	3.8	IR
3	40ml Glass	HCL	Yes	3.8	IR

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

Metal Digestion	Completed			SW3015A	04/13/17 10:00	CCM		
Metal Digestion	Completed			SW3015A	04/13/17 10:00	CCM		
pH check for VOCs*	<2	STD Units		N/A	04/13/17 12:45	KCV		

Metals

Arsenic, Dissolved	Not detected	mg/L	0.002	E200.8	04/13/17 12:20	CCM	7440-38-2	
Arsenic	0.003	mg/L	0.002	E200.8	04/13/17 12:19	CCM	7440-38-2	
Barium, Dissolved	1.21	mg/L	0.005	E200.8	04/13/17 12:20	CCM	7440-39-3	
Barium	1.20	mg/L	0.005	E200.8	04/13/17 12:19	CCM	7440-39-3	
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	04/13/17 12:20	CCM	7439-92-1	
Lead	Not detected	mg/L	0.003	E200.8	04/13/17 12:19	CCM	7439-92-1	
Selenium, Dissolved	Not detected	mg/L	0.005	E200.8	04/13/17 12:20	CCM	7782-49-2	
Selenium	Not detected	mg/L	0.005	E200.8	04/13/17 12:19	CCM	7782-49-2	
Zinc, Dissolved	Not detected	mg/L	0.005	E200.8	04/13/17 12:20	CCM	7440-66-6	
Zinc	0.010	mg/L	0.005	E200.8	04/13/17 12:19	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	04/13/17 05:26	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 05:26	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:26	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:26	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	04/13/17 05:26	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	04/13/17 05:26	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:26	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:26	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:26	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:26	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:26	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	04/13/17 05:26	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	04/13/17 05:26	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 05:26	JML	591-78-6	



Analytical Laboratory Report

Lab Sample ID: S80519.09 (continued)

Sample Tag: Dup-1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:26	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:26	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	04/13/17 05:26	JML		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:26	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:26	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:26	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:26	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:26	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:26	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:26	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:26	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:26	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S80519.10
 Sample Tag: OBG-OS-MW3
 Collected Date/Time: 04/11/2017 09:15
 Matrix: Groundwater
 COC Reference: 52122

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	3.8	IR
3	40ml Glass	HCL	Yes	3.8	IR

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

Metal Digestion	Completed			SW3015A	04/13/17 10:00	CCM		
pH check for VOCs*	<2	STD Units		N/A	04/13/17 12:45	KCV		

Metals

Arsenic	0.016	mg/L	0.002	E200.8	04/13/17 12:21	CCM	7440-38-2	
Barium	0.143	mg/L	0.005	E200.8	04/13/17 12:21	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/13/17 12:21	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/13/17 12:21	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	04/13/17 12:21	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	04/13/17 05:48	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 05:48	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:48	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:48	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	04/13/17 05:48	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	04/13/17 05:48	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:48	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:48	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:48	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:48	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:48	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	04/13/17 05:48	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	04/13/17 05:48	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 05:48	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S80519.10 (continued)

Sample Tag: OBG-OS-MW3

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:48	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:48	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	04/13/17 05:48	JML		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:48	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:48	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 05:48	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:48	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:48	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:48	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:48	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:48	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 05:48	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S80519.11
 Sample Tag: OBG-OS-MW4
 Collected Date/Time: 04/11/2017 10:20
 Matrix: Groundwater
 COC Reference: 52122

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	3.8	IR
3	40ml Glass	HCL	Yes	3.8	IR

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

Metal Digestion	Completed			SW3015A	04/13/17 10:00	CCM		
pH check for VOCs*	<2	STD Units		N/A	04/13/17 12:45	KCV		

Metals

Arsenic	0.003	mg/L	0.002	E200.8	04/13/17 12:22	CCM	7440-38-2	
Barium	1.23	mg/L	0.005	E200.8	04/13/17 12:22	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/13/17 12:22	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/13/17 12:22	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	04/13/17 12:22	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	04/13/17 07:57	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 07:57	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	04/13/17 07:57	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	04/13/17 07:57	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	04/13/17 07:57	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	04/13/17 07:57	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 07:57	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 07:57	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 07:57	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 07:57	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	04/13/17 07:57	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	04/13/17 07:57	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	04/13/17 07:57	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 07:57	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S80519.11 (continued)

Sample Tag: OBG-OS-MW4

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 07:57	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 07:57	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	106-93-4	
Chlorobenzene	8	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	630-20-6	
Ethylbenzene	2	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	100-41-4	
p,m-Xylene*	4	ug/L	2	SW5030C/8260C	04/13/17 07:57	JML		
o-Xylene*	2	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	100-42-5	
Isopropylbenzene	7	ug/L	5	SW5030C/8260C	04/13/17 07:57	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	96-18-4	
n-Propylbenzene	12	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	108-86-1	
1,3,5-Trimethylbenzene	1	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	98-06-6	
1,2,4-Trimethylbenzene	6	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	95-63-6	
sec-Butylbenzene	3	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 07:57	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	541-73-1	
1,4-Dichlorobenzene	6	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	95-50-1	
1,2,3-Trimethylbenzene	5	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	526-73-8	
n-Butylbenzene	3	ug/L	1	SW5030C/8260C	04/13/17 07:57	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 07:57	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 07:57	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 07:57	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 07:57	JML	87-61-6	
Naphthalene	101	ug/L	5	SW5030C/8260C	04/13/17 07:57	JML	91-20-3	
2-Methylnaphthalene	60	ug/L	5	SW5030C/8260C	04/13/17 07:57	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S80519.12
 Sample Tag: OBG-OS-MW4 Collocated
 Collected Date/Time: 04/11/2017 10:20
 Matrix: Groundwater
 COC Reference: 52122

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	3.8	IR
3	40ml Glass	HCL	Yes	3.8	IR

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

Metal Digestion	Completed			SW3015A	04/13/17 10:00	CCM		
pH check for VOCs*	<2	STD Units		N/A	04/13/17 12:45	KCV		

Metals

Arsenic	0.002	mg/L	0.002	E200.8	04/13/17 12:22	CCM	7440-38-2	
Barium	1.29	mg/L	0.005	E200.8	04/13/17 12:22	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/13/17 12:22	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/13/17 12:22	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	04/13/17 12:22	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	04/13/17 08:19	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 08:19	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	04/13/17 08:19	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	04/13/17 08:19	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	04/13/17 08:19	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	04/13/17 08:19	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 08:19	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 08:19	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 08:19	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 08:19	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	04/13/17 08:19	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	04/13/17 08:19	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	04/13/17 08:19	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 08:19	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S80519.12 (continued)

Sample Tag: OBG-OS-MW4 Collocated

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 08:19	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 08:19	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	106-93-4	
Chlorobenzene	8	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	630-20-6	
Ethylbenzene	2	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	100-41-4	
p,m-Xylene*	3	ug/L	2	SW5030C/8260C	04/13/17 08:19	JML		
o-Xylene*	2	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	100-42-5	
Isopropylbenzene	7	ug/L	5	SW5030C/8260C	04/13/17 08:19	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	96-18-4	
n-Propylbenzene	13	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	108-86-1	
1,3,5-Trimethylbenzene	1	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	98-06-6	
1,2,4-Trimethylbenzene	5	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	95-63-6	
sec-Butylbenzene	3	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 08:19	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	541-73-1	
1,4-Dichlorobenzene	6	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	95-50-1	
1,2,3-Trimethylbenzene	5	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	526-73-8	
n-Butylbenzene	3	ug/L	1	SW5030C/8260C	04/13/17 08:19	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 08:19	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 08:19	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 08:19	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 08:19	JML	87-61-6	
Naphthalene	80	ug/L	5	SW5030C/8260C	04/13/17 08:19	JML	91-20-3	
2-Methylnaphthalene	57	ug/L	5	SW5030C/8260C	04/13/17 08:19	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S80519.13
 Sample Tag: OBG-OS-MW5
 Collected Date/Time: 04/11/2017 11:45
 Matrix: Groundwater
 COC Reference: 69299

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	3.8	IR
3	40ml Glass	HCL	Yes	3.8	IR

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

Metal Digestion	Completed			SW3015A	04/13/17 10:00	CCM		
pH check for VOCs*	<2	STD Units		N/A	04/13/17 12:45	KCV		

Metals

Arsenic	Not detected	mg/L	0.002	E200.8	04/13/17 12:23	CCM	7440-38-2	
Barium	1.85	mg/L	0.005	E200.8	04/13/17 12:23	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/13/17 12:23	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/13/17 12:23	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	04/13/17 12:23	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	04/13/17 06:09	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 06:09	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	04/13/17 06:09	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	04/13/17 06:09	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	04/13/17 06:09	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	04/13/17 06:09	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 06:09	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 06:09	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 06:09	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 06:09	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	04/13/17 06:09	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	04/13/17 06:09	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	04/13/17 06:09	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 06:09	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S80519.13 (continued)

Sample Tag: OBG-OS-MW5

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 06:09	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 06:09	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	106-93-4	
Chlorobenzene	14	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	04/13/17 06:09	JML		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 06:09	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	96-18-4	
n-Propylbenzene	2	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 06:09	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	541-73-1	
1,4-Dichlorobenzene	7	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 06:09	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 06:09	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 06:09	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 06:09	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 06:09	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 06:09	JML	91-20-3	
2-Methylnaphthalene	6	ug/L	5	SW5030C/8260C	04/13/17 06:09	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S80519.14
 Sample Tag: OBG-MW3S
 Collected Date/Time: 04/11/2017 13:20
 Matrix: Groundwater
 COC Reference: 69299

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	3.8	IR
3	40ml Glass	HCL	Yes	3.8	IR

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

Metal Digestion	Completed			SW3015A	04/13/17 10:00	CCM		
pH check for VOCs*	<2	STD Units		N/A	04/14/17 13:30	KCV		

Metals

Arsenic	0.005	mg/L	0.002	E200.8	04/13/17 12:29	CCM	7440-38-2	
Barium	0.112	mg/L	0.005	E200.8	04/13/17 12:29	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/13/17 12:29	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/13/17 12:29	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	04/13/17 12:29	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	04/14/17 03:40	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	04/14/17 03:40	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	04/14/17 03:40	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	04/14/17 03:40	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	04/14/17 03:40	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	04/14/17 03:40	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	04/14/17 03:40	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	04/14/17 03:40	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	04/14/17 03:40	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	04/14/17 03:40	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	04/14/17 03:40	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	04/14/17 03:40	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	04/14/17 03:40	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	04/14/17 03:40	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S80519.14 (continued)

Sample Tag: OBG-MW3S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	04/14/17 03:40	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	04/14/17 03:40	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	04/14/17 03:40	JML		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	04/14/17 03:40	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	04/14/17 03:40	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/14/17 03:40	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	04/14/17 03:40	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	04/14/17 03:40	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/14/17 03:40	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/14/17 03:40	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	04/14/17 03:40	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	04/14/17 03:40	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S80519.15
 Sample Tag: OBG-MW3S MS
 Collected Date/Time: 04/11/2017 13:20
 Matrix: Groundwater
 COC Reference: 69299

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	3.8	IR
4	40ml Glass	HCL	Yes	3.8	IR

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

Metal Digestion	Completed			SW3015A	04/13/17 10:00	CCM		
pH check for VOCs*	<2	STD Units		N/A	04/14/17 13:30	KCV		

Metals

Arsenic	0.255	mg/L	0.002	E200.8	04/13/17 12:30	CCM	7440-38-2	
Barium	0.357	mg/L	0.005	E200.8	04/13/17 12:30	CCM	7440-39-3	
Lead	0.248	mg/L	0.003	E200.8	04/13/17 12:30	CCM	7439-92-1	
Selenium	0.257	mg/L	0.005	E200.8	04/13/17 12:30	CCM	7782-49-2	
Zinc	0.245	mg/L	0.005	E200.8	04/13/17 12:30	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	50	ug/L	10	SW5030C/8260C	04/13/17 23:43	JML	60-29-7	1
Acetone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 23:43	JML	67-64-1	1
Methyl iodide	48	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	74-88-4	1
Carbon disulfide	48	ug/L	5	SW5030C/8260C	04/13/17 23:43	JML	75-15-0	1
tert-Methyl butyl ether (MTBE)	44	ug/L	5	SW5030C/8260C	04/13/17 23:43	JML	1634-04-4	1
Acrylonitrile	44	ug/L	2	SW5030C/8260C	04/13/17 23:43	JML	107-13-1	1
2-Butanone (MEK)	49	ug/L	25	SW5030C/8260C	04/13/17 23:43	JML	78-93-3	1
Dichlorodifluoromethane	46	ug/L	5	SW5030C/8260C	04/13/17 23:43	JML	75-71-8	1
Chloromethane	46	ug/L	5	SW5030C/8260C	04/13/17 23:43	JML	74-87-3	1
Vinyl chloride	46	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	75-01-4	1
Bromomethane	49	ug/L	5	SW5030C/8260C	04/13/17 23:43	JML	74-83-9	1
Chloroethane	49	ug/L	5	SW5030C/8260C	04/13/17 23:43	JML	75-00-3	1
Trichlorofluoromethane	50	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	75-69-4	1
1,1-Dichloroethene	49	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	75-35-4	1
Methylene chloride	52	ug/L	5	SW5030C/8260C	04/13/17 23:43	JML	75-09-2	1
trans-1,2-Dichloroethene	52	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	156-60-5	1
1,1-Dichloroethane	51	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	75-34-3	1
cis-1,2-Dichloroethene	51	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	156-59-2	1
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	04/13/17 23:43	JML	109-99-9	1
Chloroform	51	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	67-66-3	1
Bromochloromethane	50	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	74-97-5	1
1,1,1-Trichloroethane	51	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	04/13/17 23:43	JML	108-10-1	1
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 23:43	JML	591-78-6	1
Carbon tetrachloride	43	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	56-23-5	1
Benzene	51	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	71-43-2	1
1,2-Dichloroethane	49	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	107-06-2	1
Trichloroethene	50	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	79-01-6	1
1,2-Dichloropropane	52	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	78-87-5	1

1-spiked at 50ug/L



Analytical Laboratory Report

Lab Sample ID: S80519.15 (continued)

Sample Tag: OBG-MW3S MS

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Bromodichloromethane	43	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	75-27-4	1
Dibromomethane	47	ug/L	5	SW5030C/8260C	04/13/17 23:43	JML	74-95-3	1
cis-1,3-Dichloropropene	42	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	10061-01-5	1
Toluene	51	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	108-88-3	1
trans-1,3-Dichloropropene	40	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	10061-02-6	1
1,1,2-Trichloroethane	51	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	79-00-5	1
Tetrachloroethene	41	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	127-18-4	1
trans-1,4-Dichloro-2-butene	41	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	110-57-6	1
Dibromochloromethane	43	ug/L	5	SW5030C/8260C	04/13/17 23:43	JML	124-48-1	1
1,2-Dibromoethane	52	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	106-93-4	1
Chlorobenzene	52	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	108-90-7	1
1,1,1,2-Tetrachloroethane	45	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	630-20-6	1
Ethylbenzene	54	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	100-41-4	1
p,m-Xylene*	104	ug/L	2	SW5030C/8260C	04/13/17 23:43	JML		1
o-Xylene*	53	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	95-47-6	1
Styrene	46	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	100-42-5	1
Isopropylbenzene	53	ug/L	5	SW5030C/8260C	04/13/17 23:43	JML	98-82-8	1
Bromoform	39	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	75-25-2	1
1,1,1,2,2-Tetrachloroethane	51	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	79-34-5	1
1,2,3-Trichloropropane*	48	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	96-18-4	1
n-Propylbenzene	54	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	103-65-1	1
Bromobenzene	52	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	108-86-1	1
1,3,5-Trimethylbenzene	47	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	108-67-8	1
tert-Butylbenzene	53	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	98-06-6	1
1,2,4-Trimethylbenzene	52	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	95-63-6	1
sec-Butylbenzene	56	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	135-98-8	1
p-Isopropyltoluene	55	ug/L	5	SW5030C/8260C	04/13/17 23:43	JML	99-87-6	1
1,3-Dichlorobenzene	53	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	541-73-1	1
1,4-Dichlorobenzene	54	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	106-46-7	1
1,2-Dichlorobenzene	53	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	95-50-1	1
1,2,3-Trimethylbenzene	54	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	526-73-8	1
n-Butylbenzene	57	ug/L	1	SW5030C/8260C	04/13/17 23:43	JML	104-51-8	1
Hexachloroethane	43	ug/L	5	SW5030C/8260C	04/13/17 23:43	JML	67-72-1	1
1,2-Dibromo-3-chloropropane	38	ug/L	5	SW5030C/8260C	04/13/17 23:43	JML	96-12-8	1
1,2,4-Trichlorobenzene	51	ug/L	5	SW5030C/8260C	04/13/17 23:43	JML	120-82-1	1
1,2,3-Trichlorobenzene	52	ug/L	5	SW5030C/8260C	04/13/17 23:43	JML	87-61-6	1
Naphthalene	48	ug/L	5	SW5030C/8260C	04/13/17 23:43	JML	91-20-3	1
2-Methylnaphthalene	45	ug/L	5	SW5030C/8260C	04/13/17 23:43	JML	91-57-6	1

1-spiked at 50ug/L



Analytical Laboratory Report

Lab Sample ID: S80519.16
 Sample Tag: OBG-MW3S MSD
 Collected Date/Time: 04/11/2017 13:20
 Matrix: Groundwater
 COC Reference: 69299

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	3.8	IR
4	40ml Glass	HCL	Yes	3.8	IR

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

Metal Digestion	Completed			SW3015A	04/13/17 10:00	CCM		
pH check for VOCs*	<2	STD Units		N/A	04/14/17 13:30	KCV		

Metals

Arsenic	0.261	mg/L	0.002	E200.8	04/13/17 12:31	CCM	7440-38-2	
Barium	0.368	mg/L	0.005	E200.8	04/13/17 12:31	CCM	7440-39-3	
Lead	0.236	mg/L	0.003	E200.8	04/13/17 12:31	CCM	7439-92-1	
Selenium	0.258	mg/L	0.005	E200.8	04/13/17 12:31	CCM	7782-49-2	
Zinc	0.248	mg/L	0.005	E200.8	04/13/17 12:31	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	51	ug/L	10	SW5030C/8260C	04/14/17 00:05	JML	60-29-7	1
Acetone	Not detected	ug/L	50	SW5030C/8260C	04/14/17 00:05	JML	67-64-1	1
Methyl iodide	49	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	74-88-4	1
Carbon disulfide	50	ug/L	5	SW5030C/8260C	04/14/17 00:05	JML	75-15-0	1
tert-Methyl butyl ether (MTBE)	45	ug/L	5	SW5030C/8260C	04/14/17 00:05	JML	1634-04-4	1
Acrylonitrile	43	ug/L	2	SW5030C/8260C	04/14/17 00:05	JML	107-13-1	1
2-Butanone (MEK)	47	ug/L	25	SW5030C/8260C	04/14/17 00:05	JML	78-93-3	1
Dichlorodifluoromethane	47	ug/L	5	SW5030C/8260C	04/14/17 00:05	JML	75-71-8	1
Chloromethane	47	ug/L	5	SW5030C/8260C	04/14/17 00:05	JML	74-87-3	1
Vinyl chloride	48	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	75-01-4	1
Bromomethane	51	ug/L	5	SW5030C/8260C	04/14/17 00:05	JML	74-83-9	1
Chloroethane	50	ug/L	5	SW5030C/8260C	04/14/17 00:05	JML	75-00-3	1
Trichlorofluoromethane	51	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	75-69-4	1
1,1-Dichloroethene	50	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	75-35-4	1
Methylene chloride	53	ug/L	5	SW5030C/8260C	04/14/17 00:05	JML	75-09-2	1
trans-1,2-Dichloroethene	53	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	156-60-5	1
1,1-Dichloroethane	53	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	75-34-3	1
cis-1,2-Dichloroethene	52	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	156-59-2	1
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	04/14/17 00:05	JML	109-99-9	1
Chloroform	52	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	67-66-3	1
Bromochloromethane	52	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	74-97-5	1
1,1,1-Trichloroethane	52	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	04/14/17 00:05	JML	108-10-1	1
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	04/14/17 00:05	JML	591-78-6	1
Carbon tetrachloride	46	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	56-23-5	1
Benzene	54	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	71-43-2	1
1,2-Dichloroethane	50	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	107-06-2	1
Trichloroethene	52	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	79-01-6	1
1,2-Dichloropropane	53	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	78-87-5	1

1-spiked at 50ug/L



Analytical Laboratory Report

Lab Sample ID: S80519.16 (continued)

Sample Tag: OBG-MW3S MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Bromodichloromethane	45	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	75-27-4	1
Dibromomethane	48	ug/L	5	SW5030C/8260C	04/14/17 00:05	JML	74-95-3	1
cis-1,3-Dichloropropene	43	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	10061-01-5	1
Toluene	53	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	108-88-3	1
trans-1,3-Dichloropropene	41	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	10061-02-6	1
1,1,2-Trichloroethane	52	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	79-00-5	1
Tetrachloroethene	42	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	127-18-4	1
trans-1,4-Dichloro-2-butene	40	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	110-57-6	1
Dibromochloromethane	45	ug/L	5	SW5030C/8260C	04/14/17 00:05	JML	124-48-1	1
1,2-Dibromoethane	54	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	106-93-4	1
Chlorobenzene	54	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	108-90-7	1
1,1,1,2-Tetrachloroethane	47	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	630-20-6	1
Ethylbenzene	57	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	100-41-4	1
p,m-Xylene*	110	ug/L	2	SW5030C/8260C	04/14/17 00:05	JML		1
o-Xylene*	55	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	95-47-6	1
Styrene	49	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	100-42-5	1
Isopropylbenzene	56	ug/L	5	SW5030C/8260C	04/14/17 00:05	JML	98-82-8	1
Bromoform	40	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	75-25-2	1
1,1,1,2-Tetrachloroethane	52	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	79-34-5	1
1,2,3-Trichloropropane*	50	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	96-18-4	1
n-Propylbenzene	57	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	103-65-1	1
Bromobenzene	53	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	108-86-1	1
1,3,5-Trimethylbenzene	49	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	108-67-8	1
tert-Butylbenzene	48	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	98-06-6	1
1,2,4-Trimethylbenzene	54	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	95-63-6	1
sec-Butylbenzene	59	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	135-98-8	1
p-Isopropyltoluene	57	ug/L	5	SW5030C/8260C	04/14/17 00:05	JML	99-87-6	1
1,3-Dichlorobenzene	56	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	541-73-1	1
1,4-Dichlorobenzene	56	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	106-46-7	1
1,2-Dichlorobenzene	56	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	95-50-1	1
1,2,3-Trimethylbenzene	56	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	526-73-8	1
n-Butylbenzene	59	ug/L	1	SW5030C/8260C	04/14/17 00:05	JML	104-51-8	1
Hexachloroethane	45	ug/L	5	SW5030C/8260C	04/14/17 00:05	JML	67-72-1	1
1,2-Dibromo-3-chloropropane	39	ug/L	5	SW5030C/8260C	04/14/17 00:05	JML	96-12-8	1
1,2,4-Trichlorobenzene	54	ug/L	5	SW5030C/8260C	04/14/17 00:05	JML	120-82-1	1
1,2,3-Trichlorobenzene	55	ug/L	5	SW5030C/8260C	04/14/17 00:05	JML	87-61-6	1
Naphthalene	49	ug/L	5	SW5030C/8260C	04/14/17 00:05	JML	91-20-3	1
2-Methylnaphthalene	46	ug/L	5	SW5030C/8260C	04/14/17 00:05	JML	91-57-6	1

1-spiked at 50ug/L



Analytical Laboratory Report

Lab Sample ID: S80519.17
 Sample Tag: Field Blank -1
 Collected Date/Time: 04/11/2017 13:35
 Matrix: Liquid
 COC Reference: 69299

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	3.8	IR
3	40ml Glass	HCL	Yes	3.8	IR

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

Metal Digestion	Completed			SW3015A	04/13/17 10:00	CCM		
pH check for VOCs*	<2	STD Units		N/A	04/14/17 13:30	KCV		

Metals

Arsenic	Not detected	mg/L	0.002	E200.8	04/13/17 12:18	CCM	7440-38-2	
Barium	Not detected	mg/L	0.005	E200.8	04/13/17 12:18	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/13/17 12:18	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/13/17 12:18	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	04/13/17 12:18	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	04/13/17 13:11	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 13:11	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:11	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:11	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	04/13/17 13:11	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	04/13/17 13:11	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:11	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:11	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:11	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:11	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	75-35-4	
Methylene chloride	8	ug/L	5	SW5030C/8260C	04/13/17 13:11	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	04/13/17 13:11	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	04/13/17 13:11	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 13:11	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S80519.17 (continued)

Sample Tag: Field Blank -1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:11	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:11	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	04/13/17 13:11	JML		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:11	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:11	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:11	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:11	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:11	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:11	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:11	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:11	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:11	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S80519.18
 Sample Tag: OBG-OS-MW1
 Collected Date/Time: 04/11/2017 15:40
 Matrix: Groundwater
 COC Reference: 69299

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	3.8	IR
3	40ml Glass	HCL	Yes	3.8	IR

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

Metal Digestion	Completed			SW3015A	04/13/17 10:00	CCM		
Metal Digestion	Completed			SW3015A	04/13/17 10:00	CCM		
pH check for VOCs*	<2	STD Units		N/A	04/14/17 13:30	KCV		

Metals

Arsenic, Dissolved	0.037	mg/L	0.002	E200.8	04/13/17 12:25	CCM	7440-38-2	
Arsenic	0.035	mg/L	0.002	E200.8	04/13/17 12:24	CCM	7440-38-2	
Barium, Dissolved	0.982	mg/L	0.005	E200.8	04/13/17 12:25	CCM	7440-39-3	
Barium	1.03	mg/L	0.005	E200.8	04/13/17 12:24	CCM	7440-39-3	
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	04/13/17 12:25	CCM	7439-92-1	
Lead	Not detected	mg/L	0.003	E200.8	04/13/17 12:24	CCM	7439-92-1	
Selenium, Dissolved	Not detected	mg/L	0.005	E200.8	04/13/17 12:25	CCM	7782-49-2	
Selenium	Not detected	mg/L	0.005	E200.8	04/13/17 12:24	CCM	7782-49-2	
Zinc, Dissolved	Not detected	mg/L	0.005	E200.8	04/13/17 12:25	CCM	7440-66-6	
Zinc	Not detected	mg/L	0.005	E200.8	04/13/17 12:24	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	04/13/17 18:01	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 18:01	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:01	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:01	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	04/13/17 18:01	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	04/13/17 18:01	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:01	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:01	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:01	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:01	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:01	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	04/13/17 18:01	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	04/13/17 18:01	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 18:01	JML	591-78-6	



Analytical Laboratory Report

Lab Sample ID: S80519.18 (continued)

Sample Tag: OBG-OS-MW1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:01	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:01	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	04/13/17 18:01	JML		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:01	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:01	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:01	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:01	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:01	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:01	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:01	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:01	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:01	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S80519.19
 Sample Tag: OBG-OS-MW2
 Collected Date/Time: 04/11/2017 16:45
 Matrix: Groundwater
 COC Reference: 69299

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	3.8	IR
3	40ml Glass	HCL	Yes	3.8	IR

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

Metal Digestion	Completed			SW3015A	04/13/17 10:30	CCM		
pH check for VOCs*	<2	STD Units		N/A	04/14/17 13:30	KCV		

Metals

Arsenic	0.049	mg/L	0.002	E200.8	04/13/17 12:42	CCM	7440-38-2	
Barium	0.241	mg/L	0.005	E200.8	04/13/17 12:42	CCM	7440-39-3	
Lead	0.005	mg/L	0.003	E200.8	04/13/17 12:42	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/13/17 12:42	CCM	7782-49-2	
Zinc	0.011	mg/L	0.005	E200.8	04/13/17 12:42	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	04/13/17 18:22	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 18:22	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:22	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:22	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	04/13/17 18:22	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	04/13/17 18:22	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:22	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:22	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:22	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:22	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:22	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	04/13/17 18:22	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	04/13/17 18:22	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 18:22	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S80519.19 (continued)

Sample Tag: OBG-OS-MW2

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:22	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:22	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	04/13/17 18:22	JML		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:22	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:22	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 18:22	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:22	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:22	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:22	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:22	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:22	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 18:22	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S80519.20
 Sample Tag: Equipment Blank - 1
 Collected Date/Time: 04/11/2017 17:00
 Matrix: Liquid
 COC Reference: 69299

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	3.8	IR
3	40ml Glass	HCL	Yes	3.8	IR

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

Metal Digestion	Completed			SW3015A	04/13/17 10:30	CCM		
pH check for VOCs*	<2	STD Units		N/A	04/14/17 13:30	KCV		

Metals

Arsenic	Not detected	mg/L	0.002	E200.8	04/13/17 12:40	CCM	7440-38-2	
Barium	Not detected	mg/L	0.005	E200.8	04/13/17 12:40	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/13/17 12:40	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/13/17 12:40	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	04/13/17 12:40	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	04/13/17 13:32	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 13:32	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:32	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:32	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	04/13/17 13:32	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	04/13/17 13:32	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:32	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:32	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:32	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:32	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	75-35-4	
Methylene chloride	7	ug/L	5	SW5030C/8260C	04/13/17 13:32	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	04/13/17 13:32	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	04/13/17 13:32	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 13:32	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S80519.20 (continued)

Sample Tag: Equipment Blank - 1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:32	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:32	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	04/13/17 13:32	JML		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:32	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:32	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:32	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:32	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:32	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:32	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:32	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:32	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:32	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S80519.21
 Sample Tag: Trip Blank
 Collected Date/Time: 04/11/2017 00:01
 Matrix: Liquid
 COC Reference: 69299

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	3.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
----------	---------	-------	----	--------	---------------	------	-------	-------

Extraction / Prep.

pH check for VOCs*	<2	STD Units		N/A	04/14/17 13:30	KCV		
--------------------	----	-----------	--	-----	----------------	-----	--	--

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	04/13/17 13:54	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 13:54	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:54	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:54	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	04/13/17 13:54	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	04/13/17 13:54	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:54	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:54	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:54	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:54	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:54	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	04/13/17 13:54	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	04/13/17 13:54	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	04/13/17 13:54	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:54	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:54	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S80519.21 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	04/13/17 13:54	JML		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:54	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:54	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	04/13/17 13:54	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:54	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:54	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:54	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:54	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:54	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	04/13/17 13:54	JML	91-57-6	



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C.O.C. PAGE # 1 OF 2

52122

REPORT TO

CONTACT NAME: Tony Finch
 COMPANY: O'Brien & Gere
 ADDRESS: 37000 Grand River Ste 260
 CITY: Farmington Hills STATE: MI ZIP CODE: 48335
 PHONE NO.: 248-477-5701 FAX NO.: 248-477-5962 P.O. NO.: 11700374
 E-MAIL ADDRESS: Anthony.Finch@obg.com QUOTE NO.:

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: SAME
 COMPANY:
 ADDRESS:
 CITY: STATE: ZIP CODE:
 PHONE NO.: FAX NO.: P.O. NO.:

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

PROJECT NO./NAME: RACER Hemphill Rd Industrial Land SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kevin Schneider *KS*
 TURNAROUND TIME REQUIRED: 24 HR 48 HR 72 HR STANDARD OTHER
 DELIVERABLES REQUIRED: STANDARD LEVEL II LEVEL III OTHER

VOCs TOTAL - As, Ba, Pb, Se, Zn Dissolved - As, Ba, Pb, Se, Zn	SPECIAL INSTRUCTIONS/NOTES Dissolved samples are field filtered									

MATRIX CODE: GW=GROUNDWATER SL=SLUDGE WW=WASTEWATER O=OIL S=SOIL A=AIR L=LIQUID W=WASTE SD=SOLID M=MISC

Containers & Preservatives

MERIT LAB NO.	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO3	H2SO4	NaOH	MeOH	OTHER
	DATE	TIME										
80519.01	4/10/17	910	OBG - MW 1 S	GW	4		3	1				
.02		1035	OBG - MW 7 S		4		3	2				
.03		1200	OBG - MW 7 D		4		3	1				
.04		1305	OBG - MW 6 S		4		3	1				
.05		1410	OBG - MW 6 D		4		3	1				
.06		1510	OBG - MW 2 S		4		3	1				
.07		1555	OBG - MW 2 D		4		3	1				
.08		1730	OBG - MW 5 S		5		3	2				
.09			DUP - 1		5		3	2				
.10	4/11/17	915	OBG - OS - MW 3	GW	4		3	1				
.11		1020	OBG - OS - MW 4	GW	4		3	1				
.12		1020	OBG - OS - MW 4 collocated	GW	4		3	1				

RELINQUISHED BY: *KS* OBG DATE: 4/10/17 TIME: 840
 RECEIVED BY: *John Smith* DATE: 4/12/17 TIME: 840

RELINQUISHED BY: SIGNATURE/Organization: DATE: TIME:
 RECEIVED BY: SIGNATURE/Organization: DATE: TIME:
 SEAL NO. SEAL INTACT YES NO INITIALS: NOTES: TEMP. ON ARRIVAL: 3.8

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE



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C.O.C. PAGE # 2 OF 2

69299

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Tony Finch
 COMPANY: O'Brien & Gere
 ADDRESS: 37000 Grand River Ste 200
 CITY: Farmington Hills STATE: MI ZIP CODE: 48335
 PHONE NO.: 248-477-5701 FAX NO.: 248-477-5962 P.O. NO.: 11700374
 E-MAIL ADDRESS: Anthony.finch@obg.com QUOTE NO.:

CONTACT NAME: SAME
 COMPANY:
 ADDRESS:
 CITY: STATE: ZIP CODE:
 PHONE NO.: E-MAIL ADDRESS:

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME: RACER Hemphill Rd Industrial Land SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kevin Schneider TC SLL
 TURNAROUND TIME REQUIRED: 1 DAY 2 DAYS 3 DAYS STANDARD OTHER
 DELIVERABLES REQUIRED: LEVEL II LEVEL III LEVEL IV EDD OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

Containers & Preservatives

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	VOCs	TOTAL - As, Ba, Pb, Se	Dissolved - As, Ba, Pb, Se, Zn	Certifications		Project Locations		Special Instructions	
	DATE	TIME														<input type="checkbox"/> OHIO VAP	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> DoD	<input type="checkbox"/> NPDES		<input type="checkbox"/> Detroit
80519.13	4/11/17	1145	OBG-OS-MW 5	GW	4		3	1					X	X							
.14		1320	OBG-MW 3 S	GW	4		3	1					X	X							
.15/16/17		1320	OBG-MW 3 S (Ms/Ms)	GW	10		8	2					X	X							
.17.18		1335	Field Blank-1	QC	4		3	1					X	X							
.18.19		1540	OBG-OS-MW 1	GW	5		3	2					X	X	X						
.19.20		1645	OBG-OS-MW 2	GW	4		3	1					X	X							
.20.21		1700	Equipment Blank-1	QC	4		3	1					X	X							
.21.22 mc			Trip Blank-1	QC	2		2						X								

RELINQUISHED BY: *[Signature]* OBG DATE: 4/12/17 TIME: 8:40
 RELINQUISHED BY: *[Signature]* DATE: 4/12/17 TIME: 8:40
 RELINQUISHED BY: DATE: TIME:
 RELINQUISHED BY: DATE: TIME:

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE: TIME:
 RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE: TIME:
 RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE: TIME:
 SEAL NO. SEAL INTACT YES NO INITIALS
 SEAL NO. SEAL INTACT YES NO INITIALS
 NOTES: TEMP. ON ARRIVAL 3.8

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



Exhibit C
Groundwater Analytical
Data
October 2017



Analytical Laboratory Report

Report ID: S84511.01(01)
Generated on 10/26/2017

Report to

Attention: Clifford Yantz
O'Brien & Gere Engineers, Inc.
37000 Grand River Ave.
Suite 260
Farmington, MI 48335

Phone: 248-477-5701 ext. 16 FAX:
Email: Clifford.Yantz@obg.com

Report produced by

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2680 East Lansing Drive
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Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Lavery (johnlavery@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S84511.01-S84511.21
Project: RACER Hemphill Rd SA Sampling
Collected Date: 10/17/2017 - 10/18/2017
Submitted Date/Time: 10/19/2017 08:10
Sampled by: Kevin Schneider
P.O. #: 11700374

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Maya Murshak
Technical Director



Analytical Laboratory Report

General Report Notes

Analytical results relate only to the samples tested, in the condition 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).

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.

QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.

Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.

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.

Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

There is no additional narrative for this analytical report



Analytical Laboratory Report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods



Analytical Laboratory Report

Method Summary

Method	Version
E200.8	EPA Method 200.8 Revision 5.4
N/A	Not Applicable
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW5030C/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5030C Revision 3 May 2003



Analytical Laboratory Report

Sample Summary (21 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S84511.01	OBG-MW 1S	Groundwater	10/17/17 09:30
S84511.02	OBG-MW 7S	Groundwater	10/17/17 10:45
S84511.03	OBG-MW 7D	Groundwater	10/17/17 11:35
S84511.04	OBG-MW 6S	Groundwater	10/17/17 12:30
S84511.05	OBG-MW 6D	Groundwater	10/17/17 13:25
S84511.06	OBG-MW 2S	Groundwater	10/17/17 14:20
S84511.07	OBG-MW 2D	Groundwater	10/17/17 15:05
S84511.08	OBG-MW 2D MS	Groundwater	10/17/17 15:05
S84511.09	OBG-MW 2D MSD	Groundwater	10/17/17 15:05
S84511.10	OBG-MW 5S	Groundwater	10/17/17 16:30
S84511.11	Dup-1	Groundwater	10/17/17 00:01
S84511.12	OBG-OS-MW 3	Groundwater	10/18/17 09:25
S84511.13	OBG-OS-MW 4	Groundwater	10/18/17 10:10
S84511.14	OBG-OS-MW 5	Groundwater	10/18/17 00:01
S84511.15	OBG-OS-MW 1	Groundwater	10/18/17 12:30
S84511.16	OBG-OS-MW 2	Groundwater	10/18/17 13:25
S84511.17	Field Blank-1	Water	10/18/17 14:05
S84511.18	Equipment Blank-1	Water	10/18/17 14:10
S84511.19	OBG-MW 3S	Groundwater	10/18/17 14:30
S84511.20	OBG-MW 3S collocated	Groundwater	10/18/17 14:30
S84511.21	Trip Blank-1	Water	10/18/17 00:01



Analytical Laboratory Report

Lab Sample ID: S84511.01

Sample Tag: OBG-MW 1S

Collected Date/Time: 10/17/2017 09:30

Matrix: Groundwater

COC Reference: 108346

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.3	IR
3	40ml Glass	HCL	Yes	4.3	IR

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

Metal Digestion	Completed			SW3015A	10/19/17 14:45	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/20/17 11:20	JML		

Metals

Arsenic	Not detected	mg/L	0.002	E200.8	10/19/17 15:42	CCM	7440-38-2	
Barium	0.158	mg/L	0.005	E200.8	10/19/17 15:42	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/19/17 15:42	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/19/17 15:42	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/19/17 15:42	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	10/19/17 19:09	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/19/17 19:09	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:09	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:09	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/19/17 19:09	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/19/17 19:09	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:09	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:09	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:09	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:09	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:09	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/19/17 19:09	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/19/17 19:09	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/19/17 19:09	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S84511.01 (continued)

Sample Tag: OBG-MW 1S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:09	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:09	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/19/17 19:09	JML		
o-Xylene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:09	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:09	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:09	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:09	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:09	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:09	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:09	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:09	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:09	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S84511.02

Sample Tag: OBG-MW 7S

Collected Date/Time: 10/17/2017 10:45

Matrix: Groundwater

COC Reference: 108346

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.3	IR
3	40ml Glass	HCL	Yes	4.3	IR

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

Metal Digestion	Completed			SW3015A	10/19/17 14:45	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/20/17 11:20	JML		

Metals

Arsenic	0.022	mg/L	0.002	E200.8	10/19/17 15:46	CCM	7440-38-2	
Barium	0.253	mg/L	0.005	E200.8	10/19/17 15:46	CCM	7440-39-3	
Lead	0.004	mg/L	0.003	E200.8	10/19/17 15:46	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/19/17 15:46	CCM	7782-49-2	
Zinc	0.007	mg/L	0.005	E200.8	10/19/17 15:46	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	10/19/17 19:31	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/19/17 19:31	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:31	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:31	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/19/17 19:31	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/19/17 19:31	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:31	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:31	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:31	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:31	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:31	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/19/17 19:31	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/19/17 19:31	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/19/17 19:31	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S84511.02 (continued)

Sample Tag: OBG-MW 7S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:31	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:31	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/19/17 19:31	JML		
o-Xylene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:31	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:31	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:31	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:31	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:31	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:31	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:31	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:31	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:31	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S84511.03

Sample Tag: OBG-MW 7D

Collected Date/Time: 10/17/2017 11:35

Matrix: Groundwater

COC Reference: 108346

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.3	IR
3	40ml Glass	HCL	Yes	4.3	IR

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

Metal Digestion	Completed			SW3015A	10/19/17 14:45	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/20/17 11:20	JML		

Metals

Arsenic	0.031	mg/L	0.002	E200.8	10/19/17 15:47	CCM	7440-38-2	
Barium	0.094	mg/L	0.005	E200.8	10/19/17 15:47	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/19/17 15:47	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/19/17 15:47	CCM	7782-49-2	
Zinc	0.006	mg/L	0.005	E200.8	10/19/17 15:47	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	10/19/17 19:53	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/19/17 19:53	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:53	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:53	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/19/17 19:53	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/19/17 19:53	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:53	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:53	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:53	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:53	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:53	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/19/17 19:53	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/19/17 19:53	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/19/17 19:53	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S84511.03 (continued)

Sample Tag: OBG-MW 7D

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:53	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:53	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/19/17 19:53	JML		
o-Xylene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:53	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:53	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 19:53	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:53	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:53	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:53	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:53	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:53	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 19:53	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S84511.04

Sample Tag: OBG-MW 6S

Collected Date/Time: 10/17/2017 12:30

Matrix: Groundwater

COC Reference: 108346

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.3	IR
3	40ml Glass	HCL	Yes	4.3	IR

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

Metal Digestion	Completed			SW3015A	10/19/17 14:45	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/20/17 11:20	JML		

Metals

Arsenic	0.015	mg/L	0.002	E200.8	10/19/17 15:48	CCM	7440-38-2	
Barium	0.163	mg/L	0.005	E200.8	10/19/17 15:48	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/19/17 15:48	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/19/17 15:48	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/19/17 15:48	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	10/19/17 20:15	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/19/17 20:15	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:15	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:15	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/19/17 20:15	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/19/17 20:15	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:15	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:15	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:15	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:15	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:15	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/19/17 20:15	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/19/17 20:15	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/19/17 20:15	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S84511.04 (continued)

Sample Tag: OBG-MW 6S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:15	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:15	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/19/17 20:15	JML		
o-Xylene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:15	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:15	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:15	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:15	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:15	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:15	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:15	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:15	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:15	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S84511.05

Sample Tag: OBG-MW 6D

Collected Date/Time: 10/17/2017 13:25

Matrix: Groundwater

COC Reference: 108346

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.3	IR
3	40ml Glass	HCL	Yes	4.3	IR

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

Metal Digestion	Completed			SW3015A	10/19/17 14:45	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/20/17 11:20	JML		

Metals

Arsenic	0.019	mg/L	0.002	E200.8	10/19/17 15:49	CCM	7440-38-2	
Barium	0.082	mg/L	0.005	E200.8	10/19/17 15:49	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/19/17 15:49	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/19/17 15:49	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/19/17 15:49	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	10/19/17 20:37	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/19/17 20:37	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:37	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:37	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/19/17 20:37	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/19/17 20:37	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:37	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:37	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:37	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:37	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:37	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/19/17 20:37	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/19/17 20:37	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/19/17 20:37	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S84511.05 (continued)

Sample Tag: OBG-MW 6D

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:37	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:37	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/19/17 20:37	JML		
o-Xylene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:37	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:37	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/19/17 20:37	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:37	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:37	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:37	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:37	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:37	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/19/17 20:37	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S84511.06

Sample Tag: OBG-MW 2S

Collected Date/Time: 10/17/2017 14:20

Matrix: Groundwater

COC Reference: 108346

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.3	IR
3	40ml Glass	HCL	Yes	4.3	IR

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

Metal Digestion	Completed			SW3015A	10/19/17 14:45	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/20/17 11:20	JML		

Metals

Arsenic	0.032	mg/L	0.002	E200.8	10/19/17 15:50	CCM	7440-38-2	
Barium	0.173	mg/L	0.005	E200.8	10/19/17 15:50	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/19/17 15:50	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/19/17 15:50	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/19/17 15:50	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	10/20/17 07:25	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/20/17 07:25	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:25	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:25	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/20/17 07:25	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/20/17 07:25	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:25	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:25	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:25	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:25	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:25	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/20/17 07:25	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/20/17 07:25	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/20/17 07:25	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S84511.06 (continued)

Sample Tag: OBG-MW 2S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:25	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:25	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/20/17 07:25	JML		
o-Xylene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:25	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:25	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:25	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:25	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:25	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:25	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:25	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:25	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:25	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S84511.07

Sample Tag: OBG-MW 2D

Collected Date/Time: 10/17/2017 15:05

Matrix: Groundwater

COC Reference: 108346

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.3	IR
3	40ml Glass	HCL	Yes	4.3	IR

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

Metal Digestion	Completed			SW3015A	10/19/17 14:45	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/26/17 12:00	JML		

Metals

Arsenic	0.044	mg/L	0.002	E200.8	10/19/17 15:54	CCM	7440-38-2	
Barium	0.267	mg/L	0.005	E200.8	10/19/17 15:54	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/19/17 15:54	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/19/17 15:54	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/19/17 15:54	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	10/25/17 13:48	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/25/17 13:48	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/25/17 13:48	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/25/17 13:48	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/25/17 13:48	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/25/17 13:48	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/25/17 13:48	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	10/25/17 13:48	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/25/17 13:48	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/25/17 13:48	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/25/17 13:48	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/25/17 13:48	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/25/17 13:48	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/25/17 13:48	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S84511.07 (continued)

Sample Tag: OBG-MW 2D

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/25/17 13:48	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/25/17 13:48	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/25/17 13:48	JML		
o-Xylene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/25/17 13:48	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/25/17 13:48	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/25/17 13:48	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/25/17 13:48	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/25/17 13:48	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/25/17 13:48	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/25/17 13:48	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/25/17 13:48	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/25/17 13:48	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S84511.08

Sample Tag: OBG-MW 2D MS

Collected Date/Time: 10/17/2017 15:05

Matrix: Groundwater

COC Reference: 108346

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.3	IR
4	40ml Glass	HCL	Yes	4.3	IR

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

Metal Digestion	Completed			SW3015A	10/19/17 14:45	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/26/17 12:00	JML		

Metals

Arsenic	0.312	mg/L	0.002	E200.8	10/19/17 15:57	CCM	7440-38-2	
Barium	0.529	mg/L	0.005	E200.8	10/19/17 15:57	CCM	7440-39-3	
Lead	0.240	mg/L	0.003	E200.8	10/19/17 15:57	CCM	7439-92-1	
Selenium	0.253	mg/L	0.005	E200.8	10/19/17 15:57	CCM	7782-49-2	
Zinc	0.251	mg/L	0.005	E200.8	10/19/17 15:57	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	51	ug/L	10	SW5030C/8260C	10/25/17 12:05	JML	60-29-7	1
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/25/17 12:05	JML	67-64-1	1
Methyl iodide	51	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	74-88-4	1
Carbon disulfide	50	ug/L	5	SW5030C/8260C	10/25/17 12:05	JML	75-15-0	1
tert-Methyl butyl ether (MTBE)	53	ug/L	5	SW5030C/8260C	10/25/17 12:05	JML	1634-04-4	1
Acrylonitrile	52	ug/L	2	SW5030C/8260C	10/25/17 12:05	JML	107-13-1	1
2-Butanone (MEK)	50	ug/L	25	SW5030C/8260C	10/25/17 12:05	JML	78-93-3	1
Dichlorodifluoromethane	45	ug/L	5	SW5030C/8260C	10/25/17 12:05	JML	75-71-8	1
Chloromethane	50	ug/L	5	SW5030C/8260C	10/25/17 12:05	JML	74-87-3	1
Vinyl chloride	50	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	75-01-4	1
Bromomethane	51	ug/L	5	SW5030C/8260C	10/25/17 12:05	JML	74-83-9	1
Chloroethane	52	ug/L	5	SW5030C/8260C	10/25/17 12:05	JML	75-00-3	1
Trichlorofluoromethane	51	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	75-69-4	1
1,1-Dichloroethene	52	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	75-35-4	1
Methylene chloride	52	ug/L	5	SW5030C/8260C	10/25/17 12:05	JML	75-09-2	1
trans-1,2-Dichloroethene	52	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	156-60-5	1
1,1-Dichloroethane	51	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	75-34-3	1
cis-1,2-Dichloroethene	52	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	156-59-2	1
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/25/17 12:05	JML	109-99-9	1
Chloroform	51	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	67-66-3	1
Bromochloromethane	52	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	74-97-5	1
1,1,1-Trichloroethane	53	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	71-55-6	1
4-Methyl-2-pentanone (MIBK)	52	ug/L	50	SW5030C/8260C	10/25/17 12:05	JML	108-10-1	1
2-Hexanone	53	ug/L	50	SW5030C/8260C	10/25/17 12:05	JML	591-78-6	1
Carbon tetrachloride	51	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	56-23-5	1
Benzene	50	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	71-43-2	1
1,2-Dichloroethane	50	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	107-06-2	1
Trichloroethene	50	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	79-01-6	1
1,2-Dichloropropane	51	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	78-87-5	1

1-spiked at 50ug/L



Analytical Laboratory Report

Lab Sample ID: S84511.08 (continued)

Sample Tag: OBG-MW 2D MS

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Bromodichloromethane	51	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	75-27-4	1
Dibromomethane	51	ug/L	5	SW5030C/8260C	10/25/17 12:05	JML	74-95-3	1
cis-1,3-Dichloropropene	53	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	10061-01-5	1
Toluene	51	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	108-88-3	1
trans-1,3-Dichloropropene	54	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	10061-02-6	1
1,1,2-Trichloroethane	52	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	79-00-5	1
Tetrachloroethene	33	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	127-18-4	1
trans-1,4-Dichloro-2-butene	57	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	110-57-6	1
Dibromochloromethane	51	ug/L	5	SW5030C/8260C	10/25/17 12:05	JML	124-48-1	1
1,2-Dibromoethane	50	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	106-93-4	1
Chlorobenzene	50	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	108-90-7	1
1,1,1,2-Tetrachloroethane	51	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	630-20-6	1
Ethylbenzene	50	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	100-41-4	1
p,m-Xylene*	100	ug/L	2	SW5030C/8260C	10/25/17 12:05	JML		1
o-Xylene	50	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	95-47-6	1
Styrene	52	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	100-42-5	1
Isopropylbenzene	51	ug/L	5	SW5030C/8260C	10/25/17 12:05	JML	98-82-8	1
Bromoform	51	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	75-25-2	1
1,1,1,2-Tetrachloroethane	53	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	79-34-5	1
1,2,3-Trichloropropane*	50	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	96-18-4	1
n-Propylbenzene	52	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	103-65-1	1
Bromobenzene	50	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	108-86-1	1
1,3,5-Trimethylbenzene	50	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	108-67-8	1
tert-Butylbenzene	50	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	98-06-6	1
1,2,4-Trimethylbenzene	51	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	95-63-6	1
sec-Butylbenzene	53	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	135-98-8	1
p-Isopropyltoluene	54	ug/L	5	SW5030C/8260C	10/25/17 12:05	JML	99-87-6	1
1,3-Dichlorobenzene	52	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	541-73-1	1
1,4-Dichlorobenzene	53	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	106-46-7	1
1,2-Dichlorobenzene	53	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	95-50-1	1
1,2,3-Trimethylbenzene	53	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	526-73-8	1
n-Butylbenzene	54	ug/L	1	SW5030C/8260C	10/25/17 12:05	JML	104-51-8	1
Hexachloroethane	53	ug/L	5	SW5030C/8260C	10/25/17 12:05	JML	67-72-1	1
1,2-Dibromo-3-chloropropane	55	ug/L	5	SW5030C/8260C	10/25/17 12:05	JML	96-12-8	1
1,2,4-Trichlorobenzene	53	ug/L	5	SW5030C/8260C	10/25/17 12:05	JML	120-82-1	1
1,2,3-Trichlorobenzene	52	ug/L	5	SW5030C/8260C	10/25/17 12:05	JML	87-61-6	1
Naphthalene	53	ug/L	5	SW5030C/8260C	10/25/17 12:05	JML	91-20-3	1
2-Methylnaphthalene	55	ug/L	5	SW5030C/8260C	10/25/17 12:05	JML	91-57-6	1

1-spiked at 50ug/L



Analytical Laboratory Report

Lab Sample ID: S84511.09

Sample Tag: OBG-MW 2D MSD

Collected Date/Time: 10/17/2017 15:05

Matrix: Groundwater

COC Reference: 108346

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.3	IR
4	40ml Glass	HCL	Yes	4.3	IR

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

Metal Digestion	Completed			SW3015A	10/19/17 14:45	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/26/17 12:00	JML		

Metals

Arsenic	0.304	mg/L	0.002	E200.8	10/19/17 15:58	CCM	7440-38-2	
Barium	0.527	mg/L	0.005	E200.8	10/19/17 15:58	CCM	7440-39-3	
Lead	0.239	mg/L	0.003	E200.8	10/19/17 15:58	CCM	7439-92-1	
Selenium	0.248	mg/L	0.005	E200.8	10/19/17 15:58	CCM	7782-49-2	
Zinc	0.249	mg/L	0.005	E200.8	10/19/17 15:58	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	49	ug/L	10	SW5030C/8260C	10/25/17 12:26	JML	60-29-7	1
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/25/17 12:26	JML	67-64-1	1
Methyl iodide	48	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	74-88-4	1
Carbon disulfide	48	ug/L	5	SW5030C/8260C	10/25/17 12:26	JML	75-15-0	1
tert-Methyl butyl ether (MTBE)	50	ug/L	5	SW5030C/8260C	10/25/17 12:26	JML	1634-04-4	1
Acrylonitrile	49	ug/L	2	SW5030C/8260C	10/25/17 12:26	JML	107-13-1	1
2-Butanone (MEK)	47	ug/L	25	SW5030C/8260C	10/25/17 12:26	JML	78-93-3	1
Dichlorodifluoromethane	43	ug/L	5	SW5030C/8260C	10/25/17 12:26	JML	75-71-8	1
Chloromethane	47	ug/L	5	SW5030C/8260C	10/25/17 12:26	JML	74-87-3	1
Vinyl chloride	48	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	75-01-4	1
Bromomethane	49	ug/L	5	SW5030C/8260C	10/25/17 12:26	JML	74-83-9	1
Chloroethane	49	ug/L	5	SW5030C/8260C	10/25/17 12:26	JML	75-00-3	1
Trichlorofluoromethane	49	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	75-69-4	1
1,1-Dichloroethene	49	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	75-35-4	1
Methylene chloride	50	ug/L	5	SW5030C/8260C	10/25/17 12:26	JML	75-09-2	1
trans-1,2-Dichloroethene	50	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	156-60-5	1
1,1-Dichloroethane	50	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	75-34-3	1
cis-1,2-Dichloroethene	50	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	156-59-2	1
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/25/17 12:26	JML	109-99-9	1
Chloroform	49	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	67-66-3	1
Bromochloromethane	49	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	74-97-5	1
1,1,1-Trichloroethane	50	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	71-55-6	1
4-Methyl-2-pentanone (MIBK)	50	ug/L	50	SW5030C/8260C	10/25/17 12:26	JML	108-10-1	1
2-Hexanone	50	ug/L	50	SW5030C/8260C	10/25/17 12:26	JML	591-78-6	1
Carbon tetrachloride	50	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	56-23-5	1
Benzene	50	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	71-43-2	1
1,2-Dichloroethane	49	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	107-06-2	1
Trichloroethene	49	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	79-01-6	1
1,2-Dichloropropane	51	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	78-87-5	1

1-spiked at 50ug/L



Analytical Laboratory Report

Lab Sample ID: S84511.09 (continued)

Sample Tag: OBG-MW 2D MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Bromodichloromethane	51	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	75-27-4	1
Dibromomethane	50	ug/L	5	SW5030C/8260C	10/25/17 12:26	JML	74-95-3	1
cis-1,3-Dichloropropene	52	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	10061-01-5	1
Toluene	50	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	108-88-3	1
trans-1,3-Dichloropropene	53	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	10061-02-6	1
1,1,2-Trichloroethane	50	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	79-00-5	1
Tetrachloroethene	32	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	127-18-4	1
trans-1,4-Dichloro-2-butene	54	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	110-57-6	1
Dibromochloromethane	50	ug/L	5	SW5030C/8260C	10/25/17 12:26	JML	124-48-1	1
1,2-Dibromoethane	49	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	106-93-4	1
Chlorobenzene	49	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	108-90-7	1
1,1,1,2-Tetrachloroethane	50	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	630-20-6	1
Ethylbenzene	50	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	100-41-4	1
p,m-Xylene*	99	ug/L	2	SW5030C/8260C	10/25/17 12:26	JML		1
o-Xylene	50	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	95-47-6	1
Styrene	51	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	100-42-5	1
Isopropylbenzene	50	ug/L	5	SW5030C/8260C	10/25/17 12:26	JML	98-82-8	1
Bromoform	50	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	75-25-2	1
1,1,1,2,2-Tetrachloroethane	52	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	79-34-5	1
1,2,3-Trichloropropane*	50	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	96-18-4	1
n-Propylbenzene	51	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	103-65-1	1
Bromobenzene	50	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	108-86-1	1
1,3,5-Trimethylbenzene	50	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	108-67-8	1
tert-Butylbenzene	50	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	98-06-6	1
1,2,4-Trimethylbenzene	50	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	95-63-6	1
sec-Butylbenzene	50	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	135-98-8	1
p-Isopropyltoluene	51	ug/L	5	SW5030C/8260C	10/25/17 12:26	JML	99-87-6	1
1,3-Dichlorobenzene	50	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	541-73-1	1
1,4-Dichlorobenzene	50	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	106-46-7	1
1,2-Dichlorobenzene	50	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	95-50-1	1
1,2,3-Trimethylbenzene	51	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	526-73-8	1
n-Butylbenzene	51	ug/L	1	SW5030C/8260C	10/25/17 12:26	JML	104-51-8	1
Hexachloroethane	50	ug/L	5	SW5030C/8260C	10/25/17 12:26	JML	67-72-1	1
1,2-Dibromo-3-chloropropane	51	ug/L	5	SW5030C/8260C	10/25/17 12:26	JML	96-12-8	1
1,2,4-Trichlorobenzene	50	ug/L	5	SW5030C/8260C	10/25/17 12:26	JML	120-82-1	1
1,2,3-Trichlorobenzene	50	ug/L	5	SW5030C/8260C	10/25/17 12:26	JML	87-61-6	1
Naphthalene	51	ug/L	5	SW5030C/8260C	10/25/17 12:26	JML	91-20-3	1
2-Methylnaphthalene	53	ug/L	5	SW5030C/8260C	10/25/17 12:26	JML	91-57-6	1

1-spiked at 50ug/L



Analytical Laboratory Report

Lab Sample ID: S84511.10

Sample Tag: OBG-MW 5S

Collected Date/Time: 10/17/2017 16:30

Matrix: Groundwater

COC Reference: 108346

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.3	IR
3	40ml Glass	HCL	Yes	4.3	IR

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

Metal Digestion	Completed			SW3015A	10/19/17 14:45	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/20/17 11:20	JML		

Metals

Arsenic	0.003	mg/L	0.002	E200.8	10/19/17 15:51	CCM	7440-38-2	
Barium	1.24	mg/L	0.005	E200.8	10/19/17 15:51	CCM	7440-39-3	
Lead	0.003	mg/L	0.003	E200.8	10/19/17 15:51	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/19/17 15:51	CCM	7782-49-2	
Zinc	0.019	mg/L	0.005	E200.8	10/19/17 15:51	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	10/20/17 07:46	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/20/17 07:46	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:46	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:46	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/20/17 07:46	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/20/17 07:46	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:46	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:46	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:46	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:46	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:46	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/20/17 07:46	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/20/17 07:46	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/20/17 07:46	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S84511.10 (continued)

Sample Tag: OBG-MW 5S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:46	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:46	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/20/17 07:46	JML		
o-Xylene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:46	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:46	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 07:46	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:46	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:46	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:46	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:46	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:46	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/20/17 07:46	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S84511.11

Sample Tag: Dup-1

Collected Date/Time: 10/17/2017 00:01

Matrix: Groundwater

COC Reference: 108346

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.3	IR
3	40ml Glass	HCL	Yes	4.3	IR

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

Metal Digestion	Completed			SW3015A	10/19/17 14:45	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/20/17 11:20	JML		

Metals

Arsenic	0.003	mg/L	0.002	E200.8	10/19/17 15:52	CCM	7440-38-2	
Barium	1.27	mg/L	0.005	E200.8	10/19/17 15:52	CCM	7440-39-3	
Lead	0.003	mg/L	0.003	E200.8	10/19/17 15:52	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/19/17 15:52	CCM	7782-49-2	
Zinc	0.014	mg/L	0.005	E200.8	10/19/17 15:52	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	10/20/17 08:07	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/20/17 08:07	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/20/17 08:07	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/20/17 08:07	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/20/17 08:07	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/20/17 08:07	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 08:07	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 08:07	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 08:07	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 08:07	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/20/17 08:07	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/20/17 08:07	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/20/17 08:07	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/20/17 08:07	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S84511.11 (continued)

Sample Tag: Dup-1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 08:07	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 08:07	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/20/17 08:07	JML		
o-Xylene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/20/17 08:07	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/20/17 08:07	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/20/17 08:07	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 08:07	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/20/17 08:07	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/20/17 08:07	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/20/17 08:07	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/20/17 08:07	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/20/17 08:07	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S84511.12
 Sample Tag: OBG-OS-MW 3
 Collected Date/Time: 10/18/2017 09:25
 Matrix: Groundwater
 COC Reference: 108346

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.3	IR
3	40ml Glass	HCL	Yes	4.3	IR

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

Metal Digestion	Completed			SW3015A	10/19/17 14:45	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/24/17 10:30	JML		

Metals

Arsenic	0.009	mg/L	0.002	E200.8	10/19/17 15:53	CCM	7440-38-2	
Barium	0.719	mg/L	0.005	E200.8	10/19/17 15:53	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/19/17 15:53	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/19/17 15:53	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/19/17 15:53	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	10/23/17 16:35	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/23/17 16:35	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:35	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:35	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/23/17 16:35	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/23/17 16:35	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:35	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:35	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:35	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:35	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:35	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/23/17 16:35	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/23/17 16:35	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/23/17 16:35	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S84511.12 (continued)

Sample Tag: OBG-OS-MW 3

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:35	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:35	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/23/17 16:35	JML		
o-Xylene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:35	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:35	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:35	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:35	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:35	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:35	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:35	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:35	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:35	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S84511.13

Sample Tag: OBG-OS-MW 4

Collected Date/Time: 10/18/2017 10:10

Matrix: Groundwater

COC Reference: 108346

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.3	IR
3	40ml Glass	HCL	Yes	4.3	IR

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

Metal Digestion	Completed			SW3015A	10/19/17 14:45	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/24/17 10:30	JML		

Metals

Arsenic	0.002	mg/L	0.002	E200.8	10/19/17 16:06	CCM	7440-38-2	
Barium	1.30	mg/L	0.005	E200.8	10/19/17 16:06	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/19/17 16:06	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/19/17 16:06	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/19/17 16:06	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	10/23/17 16:56	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/23/17 16:56	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:56	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:56	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/23/17 16:56	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/23/17 16:56	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:56	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:56	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:56	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:56	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:56	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/23/17 16:56	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/23/17 16:56	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/23/17 16:56	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S84511.13 (continued)

Sample Tag: OBG-OS-MW 4

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:56	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:56	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	106-93-4	
Chlorobenzene	8	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	630-20-6	
Ethylbenzene	1	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	100-41-4	
p,m-Xylene*	3	ug/L	2	SW5030C/8260C	10/23/17 16:56	JML		
o-Xylene	1	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	100-42-5	
Isopropylbenzene	6	ug/L	5	SW5030C/8260C	10/23/17 16:56	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	96-18-4	
n-Propylbenzene	9	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	108-86-1	
1,3,5-Trimethylbenzene	1	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	98-06-6	
1,2,4-Trimethylbenzene	4	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	95-63-6	
sec-Butylbenzene	2	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:56	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	541-73-1	
1,4-Dichlorobenzene	5	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	95-50-1	
1,2,3-Trimethylbenzene	4	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	526-73-8	
n-Butylbenzene	1	ug/L	1	SW5030C/8260C	10/23/17 16:56	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:56	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:56	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:56	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 16:56	JML	87-61-6	
Naphthalene	64	ug/L	5	SW5030C/8260C	10/23/17 16:56	JML	91-20-3	
2-Methylnaphthalene	29	ug/L	5	SW5030C/8260C	10/23/17 16:56	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S84511.14
 Sample Tag: OBG-OS-MW 5
 Collected Date/Time: 10/18/2017 00:01
 Matrix: Groundwater
 COC Reference: 108345

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.3	IR
3	40ml Glass	HCL	Yes	4.3	IR

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

Metal Digestion	Completed			SW3015A	10/19/17 14:45	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/24/17 10:30	JML		

Metals

Arsenic	Not detected	mg/L	0.002	E200.8	10/19/17 16:07	CCM	7440-38-2	
Barium	2.04	mg/L	0.005	E200.8	10/19/17 16:07	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/19/17 16:07	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/19/17 16:07	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/19/17 16:07	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	10/23/17 17:17	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/23/17 17:17	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:17	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:17	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/23/17 17:17	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/23/17 17:17	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:17	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:17	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:17	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:17	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:17	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/23/17 17:17	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/23/17 17:17	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/23/17 17:17	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S84511.14 (continued)

Sample Tag: OBG-OS-MW 5

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:17	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:17	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	106-93-4	
Chlorobenzene	10	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/23/17 17:17	JML		
o-Xylene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:17	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	96-18-4	
n-Propylbenzene	1	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:17	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	541-73-1	
1,4-Dichlorobenzene	4	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:17	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:17	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:17	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:17	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:17	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:17	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:17	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S84511.15

Sample Tag: OBG-OS-MW 1

Collected Date/Time: 10/18/2017 12:30

Matrix: Groundwater

COC Reference: 108345

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.3	IR
3	40ml Glass	HCL	Yes	4.3	IR

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

Metal Digestion	Completed			SW3015A	10/19/17 14:45	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/24/17 10:30	JML		

Metals

Arsenic	0.033	mg/L	0.002	E200.8	10/19/17 16:08	CCM	7440-38-2	
Barium	0.749	mg/L	0.005	E200.8	10/19/17 16:08	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/19/17 16:08	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/19/17 16:08	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/19/17 16:08	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	10/23/17 17:38	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/23/17 17:38	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:38	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:38	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/23/17 17:38	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/23/17 17:38	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:38	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:38	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:38	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:38	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:38	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/23/17 17:38	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/23/17 17:38	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/23/17 17:38	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S84511.15 (continued)

Sample Tag: OBG-OS-MW 1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:38	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:38	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/23/17 17:38	JML		
o-Xylene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:38	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:38	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:38	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:38	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:38	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:38	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:38	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:38	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:38	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S84511.16

Sample Tag: OBG-OS-MW 2

Collected Date/Time: 10/18/2017 13:25

Matrix: Groundwater

COC Reference: 108345

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.3	IR
3	40ml Glass	HCL	Yes	4.3	IR

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

Metal Digestion	Completed			SW3015A	10/19/17 14:45	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/24/17 10:30	JML		

Metals

Arsenic	0.049	mg/L	0.002	E200.8	10/19/17 16:09	CCM	7440-38-2	
Barium	0.274	mg/L	0.005	E200.8	10/19/17 16:09	CCM	7440-39-3	
Lead	0.030	mg/L	0.003	E200.8	10/19/17 16:09	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/19/17 16:09	CCM	7782-49-2	
Zinc	0.016	mg/L	0.005	E200.8	10/19/17 16:09	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	10/23/17 17:59	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/23/17 17:59	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:59	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:59	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/23/17 17:59	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/23/17 17:59	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:59	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:59	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:59	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:59	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:59	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/23/17 17:59	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/23/17 17:59	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/23/17 17:59	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S84511.16 (continued)

Sample Tag: OBG-OS-MW 2

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:59	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:59	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/23/17 17:59	JML		
o-Xylene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:59	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:59	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 17:59	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:59	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:59	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:59	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:59	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:59	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 17:59	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S84511.17

Sample Tag: Field Blank-1

Collected Date/Time: 10/18/2017 14:05

Matrix: Water

COC Reference: 108345

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.3	IR
3	40ml Glass	HCL	Yes	4.3	IR

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

Metal Digestion	Completed			SW3015A	10/19/17 14:45	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/24/17 10:30	JML		

Metals

Arsenic	Not detected	mg/L	0.002	E200.8	10/19/17 16:11	CCM	7440-38-2	
Barium	Not detected	mg/L	0.005	E200.8	10/19/17 16:11	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/19/17 16:11	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/19/17 16:11	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/19/17 16:11	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	10/23/17 14:28	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/23/17 14:28	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:28	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:28	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/23/17 14:28	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/23/17 14:28	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:28	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:28	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:28	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:28	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:28	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/23/17 14:28	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/23/17 14:28	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/23/17 14:28	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S84511.17 (continued)

Sample Tag: Field Blank-1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:28	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:28	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/23/17 14:28	JML		
o-Xylene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:28	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:28	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:28	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:28	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:28	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:28	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:28	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:28	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:28	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S84511.18

Sample Tag: Equipment Blank-1

Collected Date/Time: 10/18/2017 14:10

Matrix: Water

COC Reference: 108345

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.3	IR
3	40ml Glass	HCL	Yes	4.3	IR

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

Metal Digestion	Completed			SW3015A	10/19/17 14:45	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/24/17 10:30	JML		

Metals

Arsenic	Not detected	mg/L	0.002	E200.8	10/19/17 16:13	CCM	7440-38-2	
Barium	Not detected	mg/L	0.005	E200.8	10/19/17 16:13	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/19/17 16:13	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/19/17 16:13	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/19/17 16:13	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	10/23/17 14:49	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/23/17 14:49	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:49	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:49	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/23/17 14:49	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/23/17 14:49	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:49	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:49	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:49	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:49	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:49	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/23/17 14:49	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/23/17 14:49	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/23/17 14:49	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S84511.18 (continued)

Sample Tag: Equipment Blank-1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:49	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:49	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/23/17 14:49	JML		
o-Xylene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:49	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:49	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 14:49	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:49	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:49	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:49	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:49	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:49	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 14:49	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S84511.19

Sample Tag: OBG-MW 3S

Collected Date/Time: 10/18/2017 14:30

Matrix: Groundwater

COC Reference: 108345

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.3	IR
3	40ml Glass	HCL	Yes	4.3	IR

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

Metal Digestion	Completed			SW3015A	10/19/17 14:45	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/24/17 10:30	JML		

Metals

Arsenic	0.007	mg/L	0.002	E200.8	10/19/17 16:14	CCM	7440-38-2	
Barium	0.151	mg/L	0.005	E200.8	10/19/17 16:14	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/19/17 16:14	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/19/17 16:14	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/19/17 16:14	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	10/23/17 18:20	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/23/17 18:20	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:20	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:20	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/23/17 18:20	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/23/17 18:20	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:20	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:20	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:20	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:20	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:20	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/23/17 18:20	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/23/17 18:20	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/23/17 18:20	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S84511.19 (continued)

Sample Tag: OBG-MW 3S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:20	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:20	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/23/17 18:20	JML		
o-Xylene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:20	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:20	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:20	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:20	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:20	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:20	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:20	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:20	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:20	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S84511.20

Sample Tag: OBG-MW 3S collocated
 Collected Date/Time: 10/18/2017 14:30
 Matrix: Groundwater
 COC Reference: 108345

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.3	IR
3	40ml Glass	HCL	Yes	4.3	IR

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

Metal Digestion	Completed			SW3015A	10/19/17 14:45	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/24/17 10:30	JML		

Metals

Arsenic	0.006	mg/L	0.002	E200.8	10/19/17 16:15	CCM	7440-38-2	
Barium	0.157	mg/L	0.005	E200.8	10/19/17 16:15	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/19/17 16:15	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/19/17 16:15	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/19/17 16:15	CCM	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	10/23/17 18:41	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/23/17 18:41	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:41	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:41	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/23/17 18:41	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/23/17 18:41	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:41	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:41	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:41	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:41	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:41	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/23/17 18:41	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/23/17 18:41	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/23/17 18:41	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	75-27-4	



Analytical Laboratory Report

Lab Sample ID: S84511.20 (continued)

Sample Tag: OBG-MW 3S collocated

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:41	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:41	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/23/17 18:41	JML		
o-Xylene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:41	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:41	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 18:41	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:41	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:41	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:41	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:41	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:41	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 18:41	JML	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S84511.21

Sample Tag: Trip Blank-1

Collected Date/Time: 10/18/2017 00:01

Matrix: Water

COC Reference: 108345

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.3	IR

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

pH check for VOCs*	<2	STD Units		N/A	10/24/17 10:30	JML		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW5030C/8260C	10/23/17 15:10	JML	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/23/17 15:10	JML	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/23/17 15:10	JML	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/23/17 15:10	JML	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/23/17 15:10	JML	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/23/17 15:10	JML	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 15:10	JML	75-71-8	
Chloromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 15:10	JML	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 15:10	JML	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 15:10	JML	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/23/17 15:10	JML	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/23/17 15:10	JML	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/23/17 15:10	JML	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/23/17 15:10	JML	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 15:10	JML	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 15:10	JML	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S84511.21 (continued)

Sample Tag: Trip Blank-1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/23/17 15:10	JML		
o-Xylene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 15:10	JML	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 15:10	JML	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/23/17 15:10	JML	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 15:10	JML	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/23/17 15:10	JML	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 15:10	JML	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 15:10	JML	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 15:10	JML	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/23/17 15:10	JML	91-57-6	



Merit
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C.O.C. PAGE # 1 OF 2

108346

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Clifford Yantz
 COMPANY O'Brien + Gere
 ADDRESS 37000 Grand River Ste 260
 CITY Farmington Hills STATE MI ZIP CODE 48335
 PHONE NO. 248-477-5701 FAX NO. _____ P.O. NO. 11700374
 E-MAIL ADDRESS clifford.yantz@obg.com QUOTE NO. _____

CONTACT NAME _____ SAME
 COMPANY _____
 ADDRESS _____
 CITY _____ STATE _____ ZIP CODE _____
 PHONE NO. _____ E-MAIL ADDRESS _____

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME RACER Hemphill Rd SA Sampling SAMPLER(S) - PLEASE PRINT/SIGN NAME Kevin Schneider

TURNAROUND TIME REQUIRED 1 DAY 2 DAYS 3 DAYS STANDARD OTHER _____

DELIVERABLES REQUIRED STD LEVEL II LEVEL III LEVEL IV EDD OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

Containers & Preservatives

Certifications
 OHIO VAP Drinking Water
 DoD NPDES
 Project Locations
 Detroit New York
 Other _____
 Special Instructions _____

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	VOCs	TOTAL	As, Ba, Pb, Se, Zn
	DATE	TIME													
84511.01	10/17/17	930	OBG-MW 1S	GW	4		3	1					X	X	
.02		1045	OBG-MW 7S										X	X	
.03		1135	OBG-MW 7D										X	X	
.04		1230	OBG-MW 6S										X	X	
.05		1325	OBG-MW 6D										X	X	
.06		1420	OBG-MW 2S										X	X	
.07		1505	OBG-MW 2D										X	X	
.08/.09		1505	OBG-MW 2D (MS/MSD)		10		8	2					X	X	
.10		1630	OBG-MW 5S		4		3	1					X	X	
.11		-	DUP-1										X	X	
.12	10/18/17	925	OBG-OS-MW 3										X	X	
.13		1010	OBG-OS-MW 4										X	X	

RELINQUISHED BY: _____ DATE 10/19/17 TIME 810
 SIGNATURE/ORGANIZATION [Signature]
 RECEIVED BY: _____ DATE 10/19/17 TIME 810
 SIGNATURE/ORGANIZATION [Signature]

RELINQUISHED BY: _____ DATE _____ TIME _____
 SIGNATURE/ORGANIZATION _____
 RECEIVED BY: _____ DATE _____ TIME _____
 SIGNATURE/ORGANIZATION _____

SEAL NO. _____ SEAL INTACT YES NO INITIALS _____
 SEAL NO. _____ SEAL INTACT YES NO INITIALS _____

NOTES: TEMP. ON ARRIVAL 4.3



Merit
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www.meritlabs.com

C.O.C. PAGE # 2 OF 2

108345

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Clifford Yantz
 COMPANY: O'Brien + GORE
 ADDRESS: 37000 Grand River Ste 260
 CITY: Farmington Hills STATE: MI ZIP CODE: 48335
 PHONE NO.: 248-477-5701 FAX NO.: P.O. NO.: 11700374
 E-MAIL ADDRESS: clifford.yantz@obg.com QUOTE NO.:

CONTACT NAME: SAME
 COMPANY:
 ADDRESS:
 CITY: STATE: ZIP CODE:
 PHONE NO.: E-MAIL ADDRESS:

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME: RACER Hemphill Rd SA Sampling SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kevin Schneider
 TURNAROUND TIME REQUIRED: 1 DAY 2 DAYS 3 DAYS STANDARD OTHER
 DELIVERABLES REQUIRED: STD LEVEL II LEVEL III LEVEL IV EDD OTHER

Certifications
 OHIO VAP Drinking Water
 DoD NPDES
 Project Locations
 Detroit New York
 Other
 Special Instructions

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIFE A=AIR W=WASTE

Containers & Preservatives

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives								VOLs	TOTAL	As, Ba, Pb, Se, Zn
	DATE	TIME				NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER				
84511.14	10/18/17		OBG-OS-MW5	GW	4		3	1						X	X	
.15		1230	OBG-OS-MW1	GW	1									X	X	
.16		1325	OBG-OS-MW2	GW	1									X	X	
.17		1405	Field Blank-1	QC	1									X	X	
.18		1410	Equipment Blank-1	QC	1									X	X	
.19		1430	OBG-MW3S	GW	1									X	X	
.20		1430	OBG-MW3S collocated	GW	1									X	X	
.21		-	Trip Blank-1	QC	1		1									

RELINQUISHED BY: *[Signature]* OBG Sampler DATE: 10/19/17 TIME: 8:10
 RECEIVED BY: *[Signature]* DATE: 10/19/17 TIME: 8:10

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE TIME
 RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME
 SEAL NO. SEAL INTACT YES NO INITIALS
 SEAL NO. SEAL INTACT YES NO INITIALS
 NOTES: TEMP. ON ARRIVAL 4.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

OBG

THERE'S A WAY

