City of Bothell™

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LETTER OF TRANSMITTAL

Date: September 8, 2016

Company: Department of Ecology
Attn: Sunny Becker NWRO Toxics
Address: Cleanup Program 3190 - 160th SE
Bellevue, WA 98008

From: Nduta Mbuthia, Project Engineer, Capital Projects Division

Attached please find: Electronic copy of:-

1) Letter Report (9/2/2016) - YR 3, QTR 2 Groundwater Monitoring Report for Riverside Site

- ☐ For your information/files
- ☒ At your request
- ☐ Returned for correction
- ☐ Other:
- ☐ For your action
- ☐ Approved as noted
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Comments: N/A

HWA GeoSciences Inc.

Geotechnical Engineering • Hydrogeology • Geoenvironmental Services • Inspection and Testing

September 2, 2016
HWA Project No. 2007 098- 2012

Ms. Sunny Becker
Washington Department of Ecology
Toxics Cleanup Program, Northwest Regional Office
3190 - 160th SE Bellevue, WA 98008

Subject: **GROUND WATER MONITORING AND NEW WELL RESULTS**
YEAR 3, QUARTER 2 – JUNE/JULY 2016
Riverside Site
Bothell, Washington

Dear Ms. Becker:

This report describes quarterly ground water monitoring results and the results of two new monitoring wells at the Riverside HVOC Site, hereafter referred to as "the Site", located in downtown Bothell, Washington.

Ground water remediation is being performed as an interim action, in response to tetrachloroethene (PCE) and its degradation products in shallow ground water at concentrations exceeding Model Toxics Control Act (MTCA) Method A cleanup levels. The interim action is being performed in accordance with the Interim Action Work Plan (IAWP) dated January 7, 2013 and per the scope of work set forth in Amendment 2 to Agreed Order DE 6295, dated April 19, 2013, between the City of Bothell (City) and the Washington State Department of Ecology (Ecology). Remediation is being performed via pump-and-treat methods, which includes ground water extraction and discharge to the sanitary sewer via King County Industrial Waste Discharge permit 4268-01. The remediation system includes four extraction wells (EW-1 through EW-4) and ten monitoring wells (RMW-4 through RMW-13 and BC-3).

Figure 1 shows a site plan with well locations. Ground water monitoring and remediation activities are described below.

GROUND WATER REMEDIATION ACTIVITIES

The ground water extraction and treatment system began operation in December 2013 and is still operating. Ground water extraction from the remediation system is measured via a totalizing flow meter placed in the effluent pipe that discharges to the King County sanitary sewer.

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Quarterly discharge reports are submitted to King County Industrial Waste Division using standard forms provided by King County. The first and second quarterly discharge reports for the year 2016 are attached for reference (Appendix A). Effluent samples were collected from extraction wells EW-1 through EW-4 and from the combined discharge effluent from the remediation system. Sampling dates for extraction wells are shown in Table 1.

COMPLIANCE GROUND WATER MONITORING

This section describes performance monitoring of ground water performed during the interim action.

- First year (2014) ground water monitoring events were performed in April, June, September and December 2014.
- Second year (2015) ground water monitoring events were performed in March, June, September, and December 2015.
- A third year (2016) ground water monitoring events were performed in March and June: with two subsequent rounds remaining and tentatively scheduled for September and December 2016.

All monitoring events have included sampling some wells on a quarterly basis and some wells on a semi-annual basis in accordance with the IAWP (see Table 1).

Performance monitoring is performed to confirm that the interim action has attained cleanup standards. Performance monitoring includes collection of ground water samples from the extraction wells and selected monitoring wells, as described in Table 1 (excerpted from the IAWP).

Performance monitoring samples are analyzed for halogenated volatile organic compounds (HVOCs) and field parameters (temperature, dissolved oxygen, oxygen reduction potential, specific conductivity, and pH).

GROUND WATER ANALYTICAL RESULTS

Analytical results for ground water samples are summarized in Table 2. Figures 2, 3, and 4 show graphs of HVOCs over time as follows:

- Figure 2 - Monitoring wells, PCE vs time
- Figure 3 - Extraction wells, PCE vs time
- Figure 4 - MW-7 HVOCs vs. time

Sampling events in September 2009 and May 2013 provide ground water chemistry data from when the wells were installed, and base-line ground water chemistry data prior to initial operation of the ground water treatment system. Review of analytical results for monitoring well samples provides the following observations:

- HVOC concentrations in the monitoring wells, including RMW-7 at the point of compliance near the river, had decreased from 2009 to 2013, before the treatment system was installed.

- HVOC concentrations in the monitoring wells after the treatment system was started have changed seasonally, but have generally remained within the same range.

- HVOC concentrations at BC-3 generally show decreasing PCE and trichloroethene (TCE) concentrations, and the presence of degradation products indicating that groundwater remediation is progressing.

- Vinyl chloride concentrations exceeding MTCA Method A cleanup level were detected in well RMW-6 in September 2009 and May 2013. However, these and other HVOC concentrations have been non-detect or below the cleanup levels since then.

Review of analytical results for extraction well samples provides the following observations and trends:

- HVOC concentrations in the extraction wells after the treatment system was started have changed seasonally, but have generally remained within the same range.

- Wells EW-1, EW-2, and EW-3 have generally contained PCE and in some cases cis 1,2-dichloroethene ((cis) 1,2-DCE) exceeding the MTCA Method A cleanup level

- Well EW-4 has the lowest HVOC concentrations, with no PCE detected above cleanup levels in the last four rounds of sampling. Vinyl chloride has been detected above cleanup levels since pumping started in EW-4.

GROUND WATER TREATMENT SYSTEM PERFORMANCE DATA

Treatment system performance data is collected on at least a monthly basis. Total discharge to-date is 5,781,512 gallons based on totalizer readings at the discharge outlet to the sanitary sewer. Average flows have been around 8,000 gallons per day, with flows up to 15,000 gallons per day during periods of higher ground water and when all wells are functioning properly. Flows have remained between 10,000 and 15,0000 gallons per day since February 2016.

NEW MONITORING WELLS

Following a meeting with Ecology's site manager on June 23, 2016, two additional monitoring wells were installed on July 22, 2016. The wells were installed and sampled in response to Ecology's request for additional remedial investigation to verify recent soil gas data. HWA conducted a passive soil gas survey in January and February 2016 at the south part of the Riverside HVOC Site. The survey included installation and analysis of 35 shallow, passive soil gas samplers.

The ground water monitoring well installation activities included advancing two borings to depths of approximately 25 feet below ground surface (bgs) utilizing a truck mounted hollow stem auger drill rig. Ground water monitoring wells, identified as RMW-12 and RMW-13, were constructed of 2-inch diameter, schedule 40 polyvinyl chloride (PVC) casing with 10 feet of mill-slotted well screen placed from 15 to 25 feet bgs. The new monitoring well locations are also shown on Figure 1.

RMW-12 was located in an area where a recent passive soil gas survey detected relatively higher HVOC concentrations in shallow soil gas. The new well serves to measure HVOC concentrations in shallow ground water in this area, as well as to confirm shallow ground water HVOC concentrations previously detected in this area in a direct push boring (R-4) installed and sampled in 2008.

RMW-13 was located at the downgradient end of the site, near the river, to further define the lateral extent of the HVOC plume as it nears the river. The soil gas survey sample at this location detected 8.2 nanograms (ng) of PCE, which was flagged by the lab as an estimated quantity, i.e., below the limit of quantitation (10 ng) but above the limit of detection (5 ng). For comparison, the soil gas survey sample near RMW-12 had 533 ng of PCE.

During drilling activities, soil samples were collected from 2.5-foot soil intervals to the completion depth of each of the borings. HWA conducted field screening of soil from the borings for the presence of volatile organic vapors using a Mini-Rae PGM 75 PID. Although the PID is not capable of quantifying or identifying specific organic compounds, this instrument is useful for providing qualitative information with respect to the presence and relative concentration of organic vapors. PID readings are shown on the boring logs (Appendix B).

After well completion (on July 22, 2016), each well was developed for approximately one hour. Ground water samples were collected from each well on July 25, 2016. Ground water samples were collected using low-flow purging techniques. Field parameters were measured during purging, and included: pH, temperature, oxidation/reduction potential, dissolved oxygen, specific conductivity, and depth-to-water. Field parameter measurements were recorded on HWA field forms and ground water samples were collected once field parameters stabilized.

Soil and ground water samples were collected in clean, unused, laboratory-supplied containers, labeled with pertinent sampling information, transferred to an ice-filled, insulated cooler, and transported to the analytical laboratory under chain-of-custody procedures. Select soil samples and the ground water samples were submitted for chemical analysis of HVOCs at OnSite Environmental of Redmond, Washington, an Ecology-accredited third-party analytical laboratory. Laboratory results are included in Appendix B of this letter report and are discussed below.

Soil Analytical Results

Soil analytical results are summarized in Table 3. HVOC detections of PCE, TCE, and (cis) 1,2-DCE were identified above laboratory detection limits in three of the four soil samples submitted from RMW-12. Of these detections, only one HVOC detection was above Ecology's MTCA Method A cleanup level. PCE was detected at a concentration of 0.590 milligrams per kilogram (mg/kg) in soil sample RMW-12-22.5 (collected at a depth of 22.5 feet bgs), which is above the cleanup level of 0.05 mg/kg.

One HVOC detection above laboratory detection limits was also identified in a soil sample submitted from RMW-13. Soil sample RMW-13-17.5 (collected from a depth of 17.5 feet bgs) had a detection of (cis) 1,2-DCE that was 0.0014 mg/kg, which is well below the cleanup level of 160 mg/kg.

Ground Water Analytical Results

Ground water analytical results are summarized in Table 2. HVOC detections of PCE, TCE, and (cis) 1,2-DCE were identified above laboratory detection limits in the ground water sample submitted from RMW-12. Of these detections, PCE was detected at 120 micrograms per liter (µg/L) and TCE was detected at 19 µg/L, both of which are above the MTCA Method A cleanup levels of 5 µg/L. (cis) 1,2-DCE was not detected above the cleanup level.

Two HVOC detections above the laboratory detection limit were identified in the ground water sample submitted from RMW-13. (cis) 1,2-DCE was detected at a concentration of 1.8 µg/L, below the cleanup level of 16 µg/L, and vinyl chloride was detected at 0.24 µg/L, exceeding the cleanup level of 0.2 µg/L.

Ground Water Vertical Gradient

The vertical ground water gradient between existing deep well RMW-10 (screened at 32 to 42 feet bgs) and RMW-12 (screened at 15 to 25 feet bgs) was calculated by dividing the difference in water level elevations by the vertical elevation difference of the well screens (assumed to be the midpoint of each screen). The vertical gradient was found to be 0.046 ft/ft downward. Ground water flow in alluvial soils is primarily horizontal, due

to the layering of soils, therefore the effect of vertical gradients is minimal, but the slight downward gradient is worth noting.

CONCLUSIONS AND RECOMMENDATIONS

Analytical results of the quarterly monitoring indicate all extraction wells have been and continue to recover HVOC-impacted ground water. Analytical results indicate decreasing trends in HVOC concentrations at EW-4 and BC-3, suggesting some shrinking of the plume, although the generally similar concentrations in the other wells suggest a steady state condition, where HVOCs from upgradient areas may be replacing ground water pumped from the system. The extraction system is, however, acting as a barrier and capturing HVOC-impacted ground water that might otherwise be discharging into the river, as intended.

Analytical results of the two new wells indicates elevated HVOCs in soil and ground water in RMW-12, which confirms the 2008 results in boring R-4 (soil: 9 µg/kg PCE at 8 feet bgs; ground water: 320 µg/L at 15 feet bgs), as well as the soil gas anomaly detected in this area. The low HVOC concentrations in ground water at RMW-13 indicates the plume is narrow at its point of contact with the river (near RMW-7), and/or that the ground water pump and treat system is working to prevent HVOC discharge to the river in the area near RMW-13.

HWA recommends that additional Phase II subsurface soil gas data be collected from the northern adjacent city right-of-way and nearby upgradient properties (see attached Figure 5) to assess if these areas may be impacting the Site. Additionally, deeper ground water sampling upgradient of the Site may establish if an upgradient source is reaching the Site via deeper zones.

The City also plans to install two additional ground water extraction wells upgradient of RMW-7 to capture any HVOC impacted water near RMW-7 that may be outside the influence of the pumping system. These wells will be plumbed into the existing ground water treatment system already in operation at the Site, which discharges pumped ground water into a sanitary sewer under permit to King County Industrial Waste Division. The pump & treat system will be calibrated to balance the pumping from all the wells to achieve equilibrium to prevent a large amount of water from being pulled from the river. The proposed new extraction well locations are also shown on Figure 5.

We appreciate the opportunity to provide our services to you on this project. Please feel free to contact me if you have any questions or need additional information.

Sincerely,
HWA GEOSCIENCES INC.

Nicole Kapise
Senior Environmental Geologist

Arnie Sugar, LG, LHG
Principal Hydrogeologist

Attachments:
Table 1, Performance Monitoring per the IAWP
Table 2, Ground water analytical results, including new wells
Table 3: Analytical Results for Soil Samples, new wells

Figure 1, Site plan, well locations and HVOCs in ground water
Figure 2, Monitoring wells, PCE vs time
Figure 3, Extraction wells, PCE vs time
Figure 4, MW-7 HVOCs vs. time
Figure 5: Proposed Soil Gas Survey Exploration Plan and Proposed Extraction Well Locations

Appendix A: Year 2016 Quarterly King County Industrial Waste Reports
Appendix B: Subsurface Boring Logs, new wells
Appendix C: Laboratory Analytical Results, new wells

Table 1
Performance Monitoring
Bothell Riverside Site

Sample Type	Sampling Location	Sampling Frequency / Rationale
Preliminary Point of Compliance	Extraction well 1 Extraction well 2 Extraction well 3 Extraction well 4 RMW-7	Quarterly for one year, then modify based on results and consultation with Ecology (e.g. move to semi-annual if concentrations stabilize)
Combined discharge	Combined discharge at sewer manhole or manifold	As required by KCIWD permit
Nearby wells	BC-3 RMW-4 RMW-5 RMW-6 RMW-8 RMW-9 RMW-10	Semi-annual for one year, then modify based on results and consultation with Ecology to check for water quality impacts due to pumping

Table 2
Bothell Riverside Site
Ground Water Analytical Results

			FIELD PARAMETERS							HVOCs							NOTES
Monitoring Well Identification	Screened Interval (ft bgs)	Date Sampled	Depth to Water (ft below MP)	pH (units)	Conductivity (µS)	Temp (°C)	Dissolved Oxygen (mg/L)	Oxygen Reduction Potential (ORP)	Settable Solids (mg/L)	Tetrachloro-ethene (µg/L)	Trichloro-ethene (µg/L)	1,1-Dichloro-ethene (µg/L)	(cis) 1,2-Dichloro-ethene (µg/L)	(trans) 1,2-Dichloro-ethene (µg/L)	Vinyl chloride (µg/L)	Chloroform (ug/L)	
MTCA Method A (Table 720-1, WAC 173-340-900) or Method B Cleanup Level										**5**	**5**	**400 (B)**	**16 (B)**	**160 (B)**	**0.2**		
KCIWD Limits									**7.00**	**240**	**500**	**1700**	**Total <2000**		**12**		
		6/24/14															Wellhead buried under new landscaping
		12/19/14	12.2	6.59	1183	14.6	1.70			**0.79**	**0.33**	<0.20	<0.20	<0.20	<0.20		
RMW-4	**15-25**	6/23/15	13.09	5.76	987	17.67	0.00	-125.70		**0.52**	**0.72**	<0.20	<0.20	<0.20	<0.20		
		12/8/15	11.95	5.99	510	14.9	0.00	-69.90		**2.2**	**0.56**	<0.20	<0.20	<0.20	<0.2		
		6/29/16	12.22	5.17	400	15.31	4.22	91.50		**3.6**	**0.46**	<0.20	<0.20	<0.20	<0.20		
		5/24/13	11.51	6.70	932	13.9	1.00			**1.7**	<0.2		<0.2		<0.20		
		6/24/14	14.51	6.48	740	14.5	0.15			**1.4**	**0.40**	<0.20	<0.20	<0.20	<0.20		
RMW-5	**12-22**	12/19/14	13.61	6.28	1226	13.3	0.55			**1.3**	**0.32**	<0.20	**0.22**	<0.20	<0.20		
		6/23/15	14.26	6.28	953	16.1	0.00	-127.10		**0.66**	**0.36**	<0.20	<0.20	<0.20	<0.20		
		12/8/15	13.29	5.83	318	14.54	18.61	-90.40		**1.6**	<0.20	<0.20	<0.20	<0.20	<0.2		
		6/29/16	13.41	6.18	356	14.43	1.71	-2.00		**1.1**	**0.31**	<0.20	<0.20	<0.20	<0.20		
		9/14/09								<0.2	**0.27**		**3.6**		**5.3**		
		5/24/13	10.42	6.68	467	14.3	1.40			<0.2	<0.2		**2.7**		**3.4**		
		6/24/14	14.79	6.47	407	14.2	0.13			**0.34**	**0.60**	<0.20	**0.42**	<0.20	<0.20		
RMW-6	**15-25**	12/19/14	13.31	6.09	294	14.3	0.82			**0.47**	<0.20	<0.20	<0.20	<0.20	<0.20		
		6/23/15	13.65	6.12	283	15.2	0.00	8.00		<0.20	**1.4**	<0.20	**0.88**	<0.20	<0.20		
		12/8/15	12.46	6.00	232	14.99	0.00	-40.10		<0.2	**2.7**	<0.20	**1.0**	<0.20	<0.20		
		6/29/16	13.14	6.39	194	15.34	1.64	35.50		<0.20	**2.5**	<0.20	**1.3**	<0.20	<0.20		
		9/14/09								**50**	**120**		**190**		**22**		
		5/24/13	16.31	6.80	447	16.2	0.30			**9**	**33**		**65**		**9.3**		
		4/4/14	16.65	6.50	1969	12.9	0.55			**0.75**	**3.8**		**35**	**0.54**	**8.3**		
		6/25/14	16.55	6.48	865	15.2	0.03			**5.2**	**24**	<0.20	**80**	**1.1**	**9.9**		
		9/22/14	17.54	6.96	386	18.2	5.25			<1.0	**3.2**	<1.0	**170**	**1.6**	**47**		
		12/19/14	17.49	6.06	683	15.4	0.73			**2.9**	**8.9**	<1.0	**150**	**1.4**	**34**		
RMW-7	**15-25**	3/18/15	16.66	6.35	1127	14.9	1.87			<0.40	**1.5**	<0.40	**57**	**0.64**	**20**	<0.40	
		6/23/15	17.41	5.97	508	17.96	0	-70.3		<0.40	**3.1**	<0.40	**95**	**1.2**	**9.6**		
		9/11/15	18.50	6.22	464	21.54	3.23			**4.2**	**23**	<1.0	**110**	**1.4**	**14**		
		12/8/15	15.97	5.96	274	15.92	0.00	-12.3		**3.5**	**8.7**	<0.20	**85**	**0.87**	**9.0**		
		3/31/16	16.94	6.40	403	14.63	2	38.9		**1.5**	**6.8**	<0.40	**84**	**0.91**	**35**	<0.40	
		6/29/16	17.11	6.28	297	16.57	1.2	30.3		**2.3**	**14**	<0.40	**65**	**0.68**	**12**		
		9/15/09								**0.46**	**2.6**		**1.3**		<0.2		
		5/24/13	18.81	6.42	494	16.4	0.10			**0.5**	**0.85**		**0.44**		<0.2		
		6/25/14	19.62	6.27	650	15.7	0.20			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		
RMW-8	**20-30**	12/19/14	20.63	6.18	431	14.5	0.84			**0.7**	<0.20	<0.20	<0.20	<0.20	<0.20		
		6/23/15	20.87	5.74	333	26.9	0.27	-61.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		
		12/8/15	19.42	5.83	344	15.15	1.51	44.30		<0.2	**0.39**	<0.20	**0.47**	<0.20	<0.2		
		6/29/16	20.5	6.27	216	17.47	2.05	32.00		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		
		9/15/09								<0.20	<0.20		<0.20		<0.20		
RMW-9		5/24/13	13.65	6.38	247	15.7	4.00			<0.20	<0.20		<0.20		<0.20		
		6/24/14										<0.20		<0.20			Well abandoned during SR 522 construction
	20-30	12/19/14	15.31	6.16	182	15.7	2.92			**0.79**	<0.20	<0.20	<0.20	<0.20	<0.20		
RMW-9R		6/23/15	4.00	5.93	139	18.7	4.20	70.40		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		
		12/8/15	15.92	5.75	163	15.61	3.29	94.30		<0.2	<0.2	<0.20	<0.2	<0.20	<0.2		
		6/29/16	15.31	6.53	132	15.91	11.2	94.90		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		

Table 2
Bothell Riverside Site
Ground Water Analytical Results

			FIELD PARAMETERS							HVOCs							NOTES
Monitoring Well Identification	Screened Interval (ft bgs)	Date Sampled	Depth to Water (ft below MP)	pH (units)	Conductivity (µS)	Temp (°C)	Dissolved Oxygen (mg/L)	Oxygen Reduction Potential (ORP)	Settable Solids (mg/L)	Tetrachloro-ethene (µg/L)	Trichloro-ethene (µg/L)	1,1-Dichloro-ethene (µg/L)	(cis) 1,2-Dichloro-ethene (µg/L)	(trans) 1,2-Dichloro-ethene (µg/L)	Vinyl chloride (µg/L)	Chloroform (ug/L)	
MTCA Method A (Table 720-1, WAC 173-340-900) or Method B Cleanup Level										**5**	**5**	**400 (B)**	**16 (B)**	**160 (B)**	**0.2**		
KCIWD Limits									**7.00**	**240**	**500**	**1700**	**Total <2000**		**12**		
RMW-10	**32-42**	5/24/13	11.85	6.52	247	13.3	6.60			<0.20	<0.20		<0.20		<0.20		
		6/24/14	15.00	6.19	361	15.4	1.08			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		
		12/19/14	14.80	6.08	284	15.0	2.03			**0.69**	<0.20	<0.20	<0.20	<0.20	<0.20		
		6/23/15	20.40	6.43	233	17.3	7.28	37.00		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		
		12/8/15	19.69	5.94	134	14.69	5.41	50.00		<0.2	<0.2	<0.20	<0.2	<0.20	<0.2		
		6/29/16	13.6	6.68	166	15.83	8.35	29.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		
RMW-12	**15-25**	7/25/16	16.25	6.3	0.442	17.68	1.53	21.7		**120**	**19**	<1.0	**14**	<1.0	<1.0	<1.0	
RMW-13	**15-25**	7/25/16	14.95	5.19	0.333	17.4	2.5	183.5		<0.20	<0.2	<0.20	**1.8**	<0.2	**0.24**	0.26	
BC-3	**15-25**	9/5/08								**110**	**120**		**46**		<1		
		5/24/13	12.95	6.55	342	15.1	4.00			**25**	**11**		**4**		<0.20		
		6/24/14	14.41	6.06	426	14.8	2.40			**11**	**4.0**	<0.20	**0.75**	<0.20	<0.20		
		12/19/14	15.61	6.07	298	14.8	1.82			**7.7**	**2.1**	<0.20	**0.44**	<0.20	<0.20		
		6/23/15	18.30	5.68	161	21.2	364.00	123.40		**3.8**	**0.9**	<0.20	<0.20	<0.20	<0.20		
		12/8/15	15.3	5.59	248	15.17	6.05	120.80		**5.3**	**1.3**	<0.20	**0.29**	<0.20	<0.20		
		6/29/16	16.95	5.9	167	15.84	6.97	52.20		**3.7**	**0.93**	<0.20	<0.20	<0.20	<0.20		
EW-1	**12.5-32.5**	4/4/14	27.90							**17**	**3**		**1.2**		<0.20		
		6/25/14	14.78	6.61	0.10	18.3	5.68			**27**	**8.1**	<0.20	**6.5**	<0.20	<0.20		
		9/22/14															Pump not working
		12/19/14		6.42	107	17.3	4.99			**21**	**2.6**	<0.20	**0.82**	<0.20	<0.20		
		3/18/15		7.01	167	15.9	3.65			**2.8**	**0.27**	<0.20	<0.20	<0.20	<0.20	<0.20	
		6/23/15								**22**	**2**	<0.20	**0.95**	<0.20	<0.20	**2.20**	
		9/11/15	15.86	6.01	160	19.54	2.99	-49.88		**41**	**2.2**	<0.20	**0.79**	<0.20	<0.20	**1.30**	
		12/8/15															Pump not working
		3/31/16		6,27	227	15.94	6.55	80.2		**22**	**2.8**	<0.20	**2.5**	<0.20	<0.20	**0.84**	
		6/29/16		6.37	192	16.7	8.1	47.5		**24**	**4.2**	<0.20	**4.5**	<0.20	<0.20	**0.32**	
EW-2	**15-35**	4/4/14	23.70							**13**	**2.8**		**1.5**		<0.20		
		6/25/14	17.10	6.58	143	16.5	2.21			**28**	**3.8**	<0.20	**1.5**	<0.20	<0.20		
		9/22/14								**66**	**16**	<0.40	**12**	<0.40	<0.40		
		12/19/14		7.01	204	15.8	2.31			**44**	**12**	<0.40	**12**	<0.40	<0.40		
		3/18/15		6.87	251	15.0	2.16			**22**	**6.5**	<0.20	**4.3**	<0.20	<0.20	<0.20	
		6/23/15								**8.6**	**2.4**	<0.20	**1.8**	<0.20	<0.20	**1.40**	
		9/11/15	19.89	6.11	235	19.9	2.84	-56.8		**6.5**	**0.62**	<0.20	<0.20	<0.20	<0.20	**0.25**	
		12/8/15		5.92	201	15.12	2.43	595.1		**16**	**2.6**	<0.20	**2.4**	<0.20	<0.20		
		3/31/16		5.75	218	15,21	8.58	129.9		**16**	**4.0**	<0.20	**3.7**	<0.20	<0.20	<0.20	
		6/29/16		6.46	185	15.75	6.85	48.3		**17**	**4.1**	<0.20	**3.2**	<0.20	<0.20		
EW-3	**14-34**	4/4/14	23.80							**49**	**14**		**7.2**		**0.61**		
		6/25/14	19.00	6.58	182	16.4	6.34			**41**	**14**	<0.40	**12**	<0.40	<0.40		
		9/22/14								**190**	**59**	<1.0	**33**	<1.0	**1.10**		
		12/19/14		6.82	275	15.9	6.02			**21**	**6.4**	<0.20	**6**	<0.20	<0.20		
		3/18/15		6.78	322	15.4	5.47			**140**	**46**	<1.0	**29**	<1.0	<1.0	<1.0	
		6/23/15								**87**	**24**		**9**			**15.00**	
		9/11/15	20.86	6.56	354	19.89	2.53	-65.78		**81**	**28**	<0.40	**14**	<0.40	<0.40	**0.44**	
		12/8/15		5.82	247	16.59	2.36	160		**33**	**11**	<0.20	**7.8**	<0.20	**0.38**		
		3/31/16		6.20	358	19.57	2.28	87.5		**72**	**21**	<0.20	**16**	<0.20	**0.64**	<0.40	
		6/29/16		6.28	304	19.37	6.51	45.9		**79**	**24**	<0.40	**14**	<0.40	**0.43**		
EW-4	**11-31**	4/4/14	12.50														Pump not working
		6/25/14	17.30	6.46	0.22	16.0	1.73			**1.7**	**1.8**	<0.20	**1.1**	<0.20	**0.38**		
		9/22/14								**45**	**10**	<0.20	**7.4**	<0.20	**0.87**		
		12/19/14		6.68	105	16.6	1.99			**1.2**	**1.6**	<0.20	**1.1**	<0.20	**0.27**		
		3/18/15								**15**	**4.8**	<0.20	**3.2**	<0.20	<0.20	**0.21**	
		6/23/15								**0.85**	**2.8**	<0.20	**1.7**	<0.20	**0.37**	**2.10**	
		9/11/15	18.84	6.23	125	19.22	2.55	-65.32		**1.8**	**2.1**	<0.20	**0.92**	<0.20	**0.28**	<0.20	
		12/8/15		5.84	424	22.04	0	214		<0.20	**1.6**	<0.20	**2.9**	<0.20	**0.85**		
		3/31/16		6.61	354	15.91	1.47	2.0		<0.20	**2.5**	<0.20	**2.0**	<0.20	**0.31**	<0.20	
		6/29/16		6.54	344	19.19	6.99	33.0		<0.20	**1.2**	<0.20	**3.5**	<0.20	**0.61**		

Table 2
Bothell Riverside Site
Ground Water Analytical Results

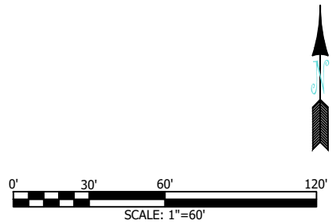
			FIELD PARAMETERS							HVOCs							NOTES
Monitoring Well Identification	Screened Interval (ft bgs)	Date Sampled	Depth to Water (ft below MP)	pH (units)	Conductivity (µS)	Temp (°C)	Dissolved Oxygen (mg/L)	Oxygen Reduction Potential (ORP)	Settable Solids (mg/L)	Tetrachloro-ethene (µg/L)	Trichloro-ethene (µg/L)	1,1-Dichloro-ethene (µg/L)	(cis) 1,2-Dichloro-ethene (µg/L)	(trans) 1,2-Dichloro-ethene (µg/L)	Vinyl chloride (µg/L)	Chloroform (ug/L)	
MTCA Method A (Table 720-1, WAC 173-340-900) or Method B Cleanup Level										**5**	**5**	**400 (B)**	**16 (B)**	**160 (B)**	**0.2**		
KCIWD Limits									**7.00**	**240**	**500**	**1700**	**Total <2000**		**12**		
DISCH	**NA**	4/4/14	NA	6.48	443	15.3				**25**	**6.3**		**3**	<0.20	<0.20		
		6/25/14	NA	6.40	200	16.4	1.43		0.0	**30**	**8.4**	<0.20	**5.9**	<0.20	**0.38**		
		9/22/14	NA						0.2	**79**	**18**	<0.40	**13**	<0.40	<0.40		
		12/18/14	NA							**11**	**2.7**	<0.20	**2.5**	<0.20	<0.20		
		3/18/15	NA	6.54	230	15.1	1.89		0.1	**25**	**7.4**	<0.20	**4.7**	<0.20	<0.20	<0.20	
		6/23/15	NA							**11**	**2.3**	<0.20	**1.5**	<0.20	<0.20	**1.60**	
		9/11/15	NA	6.23	245	20.55	2.68	-65.3	0	**7.9**	**1.5**	<0.20	**0.77**	<0.20	<0.20	**0.39**	
		12/8/15	NA	6.15	267	17.2	3.9	18		**68**	**21**	<0.20	**15**	**0.23**	**0.91**		
		3/31/16	NA	6.57	261	16.26	6.78	50.6		**21**	**5.5**	<0.20	**4.4**	<0.20	<0.20	**0.21**	
		6/29/16	NA	6.71	214	16.83	6.14	13.7		**24**	**5.7**	<0.20	**4.6**	<0.20	<0.20		
QC Samples			FIELD PARAMETERS							HVOCs							NOTES
DUP 6/25/14		6/25/14								**28**	**8.4**	<0.20	**6.4**	<0.20	**0.37**		Duplicate of DISCH 6/25/14
DUP 12/19/14		12/19/14								**0.92**	<0.20	<0.20	<0.20	<0.20	<0.20		Duplicate of RMW-8 12/19/2014
Trip Blank		6/25/14								<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		
DUP 9/22/14		9/22/14								**66**	**16**	<0.40	<0.40	<0.40	<0.40		Duplicate of EX2 9/22/2014
Trip Blank		3/18/15								<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
DUP		3/18/15								<0.40	**1.0**	<0.40	**54**	**0.65**	**19**	<0.40	Duplicate of RMW-7 3/18/2015
Trip Blank		9/11/15								<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
DUP		9/11/15								**23**	1.7	<0.20	**0.62**	<0.20	<0.20	**0.91**	
Trip Blank		12/8/15								<0.2	<0.2	<0.20	<0.2	<0.20	<0.2		
DUP		12/8/15								**2.8**	**0.6**	<0.2	<0.2	<0.2	<0.2		Duplicate of RMW-4 12/8/15

Bold indicates analyte detected at a concentration greater than the laboratory reporing limit
Yellow highlight indicates analyte exceeds MTCA cleanup level
MTCA = Model Toxic Control Act
KCIWD = King County Industrial Waste Discharge limit
Blank – Not analyzed
NA – Not applicable

Table 3
Soil Analytical Results, New Wells

Sample Identifier	Date	Sample Depth (feet bgs)	PCE* (mg/kg)	TCE* (mg/kg)	(cis) 1,2-DCE* (mg/kg)	Vinyl Chloride* (mg/kg)
RMW-12-5'	7/22/16	5.0	<0.00088	<0.00088	<0.00088	<0.00088
RMW-12-12.5'	7/22/16	12.5	**0.012**	**0.0061**	**0.0029**	<0.00091
RMW-12-17.5'	7/22/16	17.5	**0.024**	**0.0025**	**0.0011**	<0.00099
RMW-12-22.5'	7/22/16	22.5	**0.590**	**0.0058**	<0.0010	<0.0010
RMW-13-5'	7/22/16	5.0	<0.00092	<0.00092	<0.00092	<0.00092
RMW-13-12.5'	7/22/16	12.5	<0.0015	<0.0015	<0.0015	<0.0015
RMW-13-17.5'	7/22/16	17.5	<0.00096	<0.00096	**0.0014**	<0.00096
RMW-22.5	7/22/16	22.5	<0.0010	<0.0010	<0.0010	<0.0010
MTCA Method A Cleanup Level			0.05	0.03	N/A	N/A
MTCA Method B Cleanup Level			476	12	160	0.67

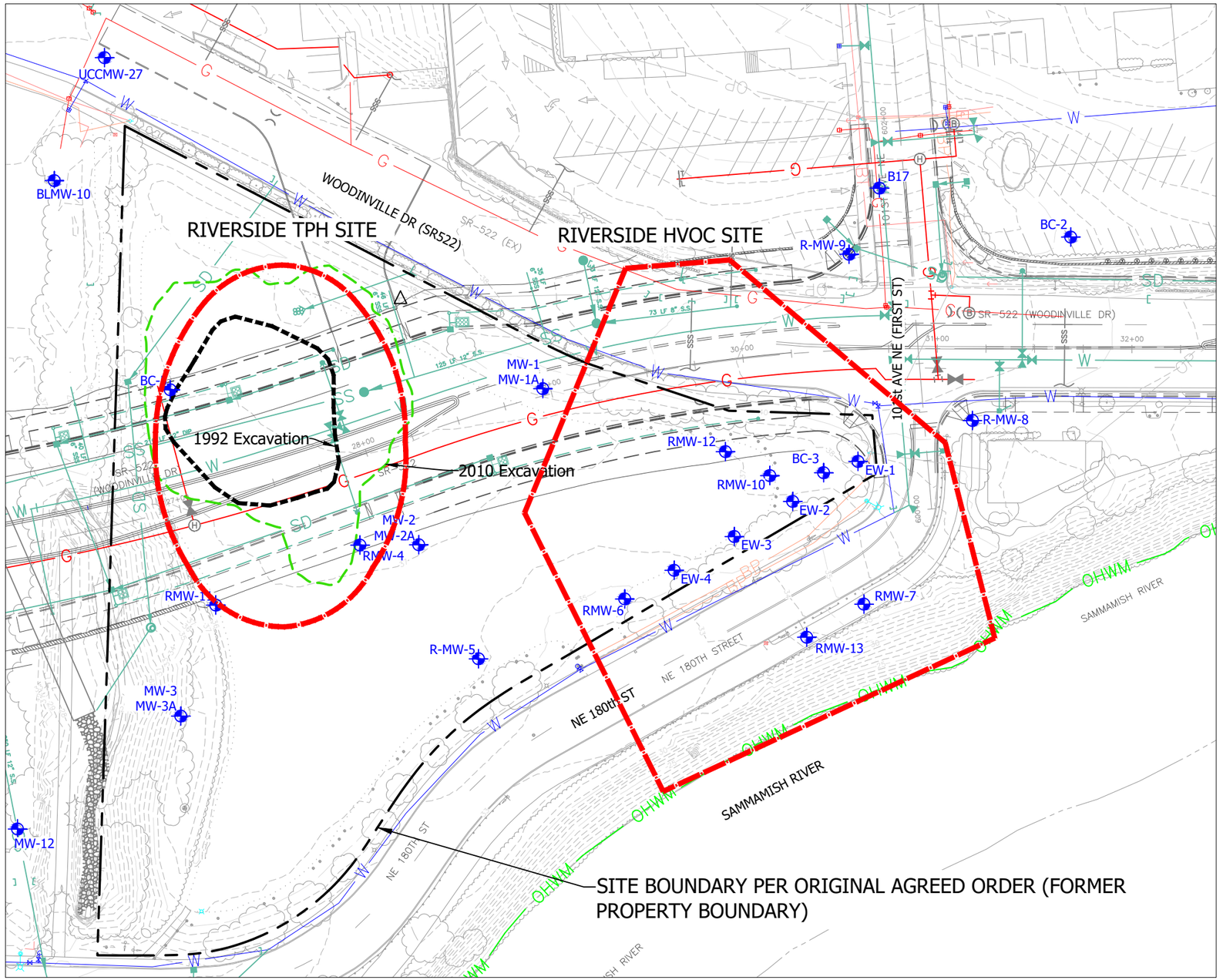
Notes:
PCE – Tetrachloroethene
TCE – Trichloroethene
cis 1,2-DCE - cis 1,2-Dichloroethene
Bold – Analyte detected
Bold / highlighted – Analyte exceeds MTCA A cleanup level
mg/kg – milligrams per kilogram
N/A – Not available
* No other HVOCs were detected above laboratory reporting limits (see Appendix B For complete list of compounds analyzed).



EXPLANATION OF SYMBOLS

- APPROXIMATE EXTENT OF 2010 CLEANUP EXCAVATION
- APPROXIMATE EXTENT OF 1990'S CLEANUP
- APPROXIMATE PROPERTY BOUNDARY
- SITE BOUNDARY

R-MW-13 MONITORING WELL LOCATIONS



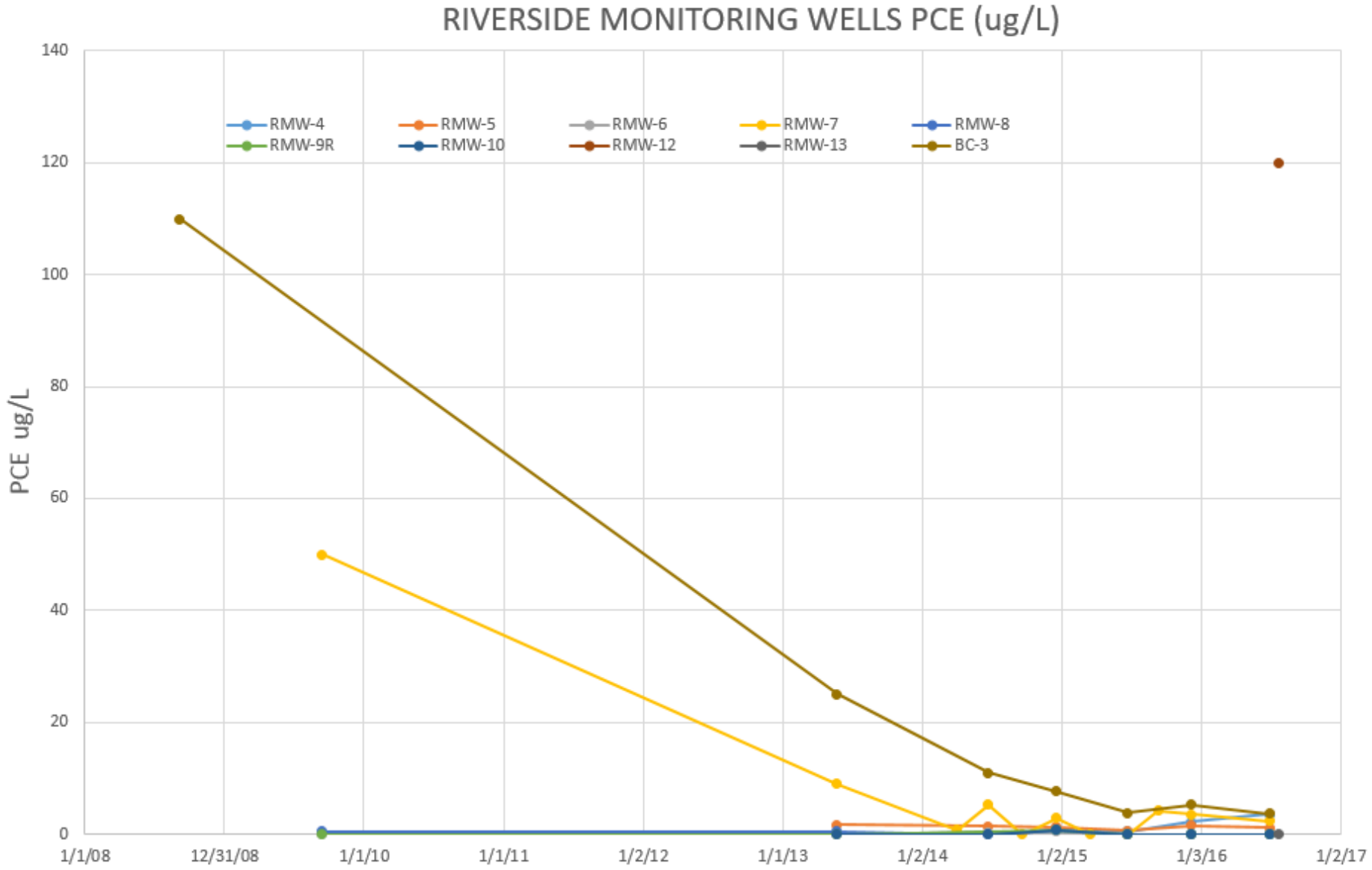
HWA GEOSCIENCES INC.

BOTHELL RIVERSIDE RI REPORT
BOTHELL, WASHINGTON

MONITORING WELL LOCATIONS

DRAWN BY	EFK
CHECK BY	AS
DATE	08.09.16
FIGURE NO.	1
PROJECT NO.	2007-098 T2012

S:\2007\07-098-21 BOTHELL CROSSROADS\CAD 2007-098\HWA 2007-098-21 T2012B.DWG <RIVERSIDE fig 2 gas 2016> Plotted: 8/12/2016 1:25 PM



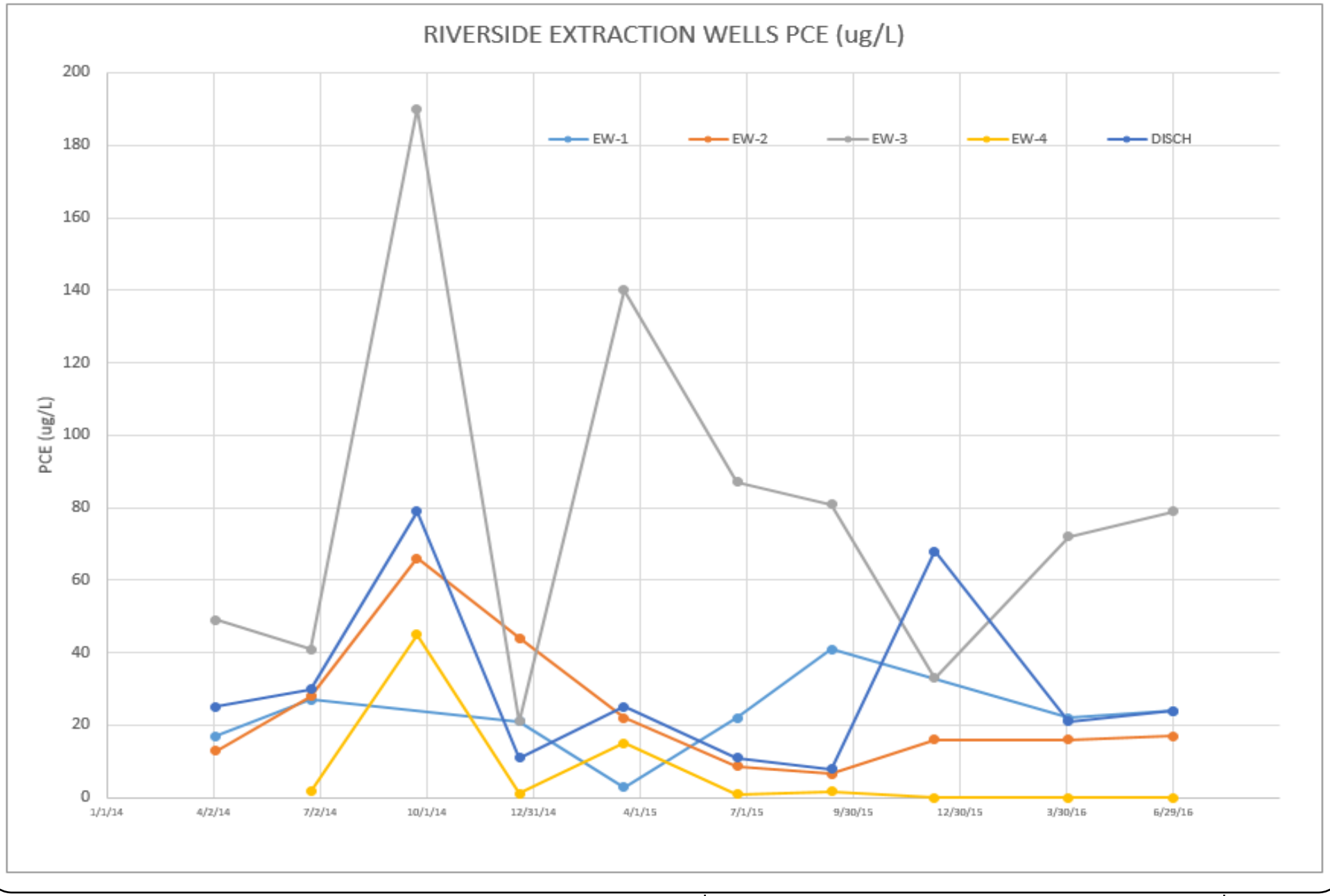
HWA GeoSciences Inc.

MONITORING WELLS PCE (UG/L)

BOTHELL RIVERSIDE SITE
BOTHELL, WASHINGTON

FIGURE NO.
2

POJECT NO
2007-098



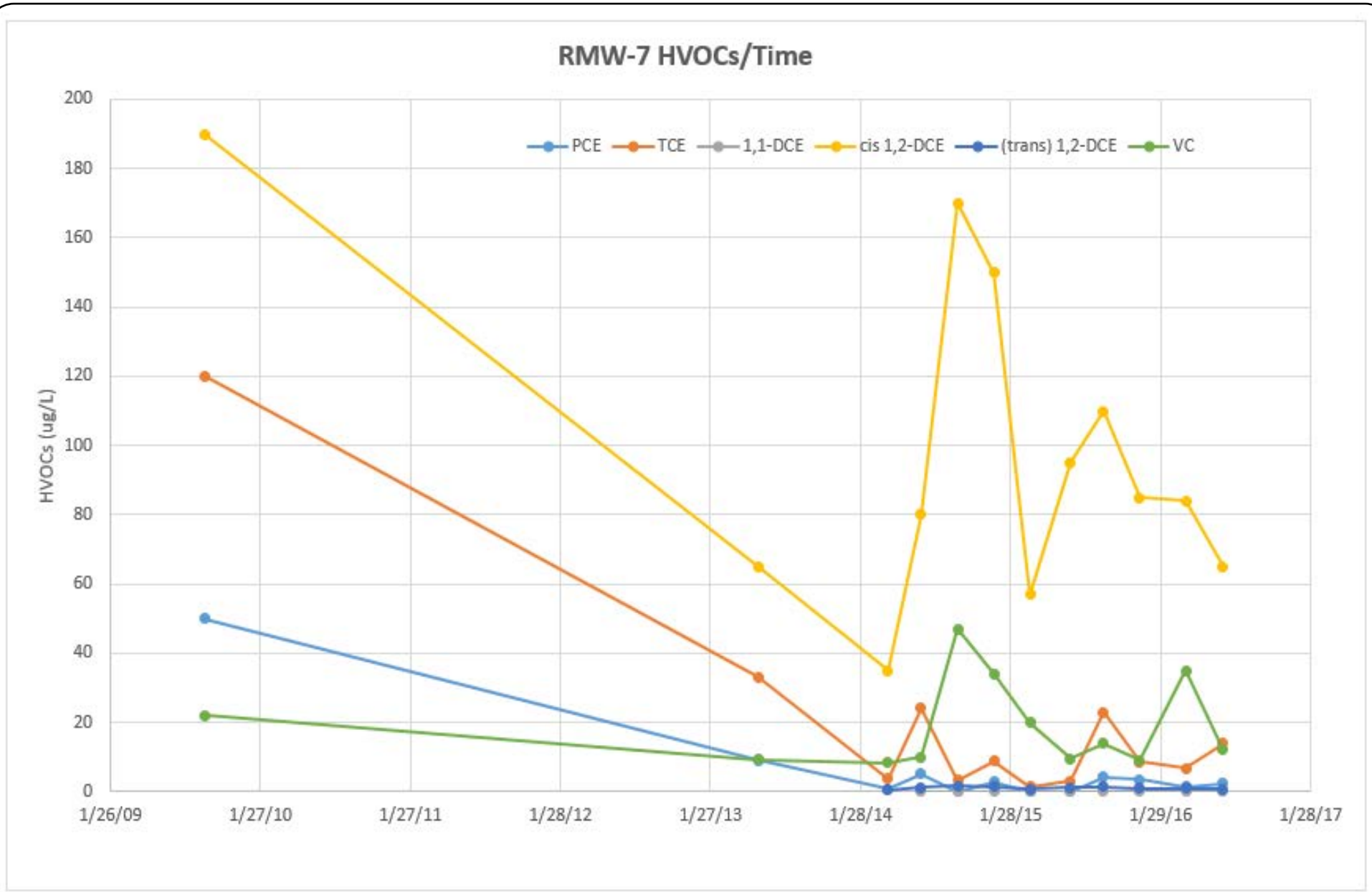
HWA GeoSciences Inc.

EXTRACTION WELLS PCE (UG/L)

BOTHELL RIVERSIDE SITE
BOTHELL, WASHINGTON

FIGURE NO.
3

POJECT NO
2007-098



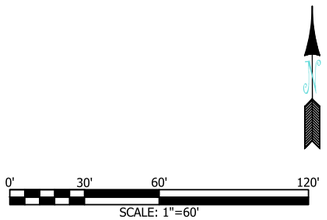
HWA GeoSciences Inc.

RMW-7 HVOCS (UG/L)

BOTHELL RIVERSIDE SITE
BOTHELL, WASHINGTON

FIGURE NO.
4

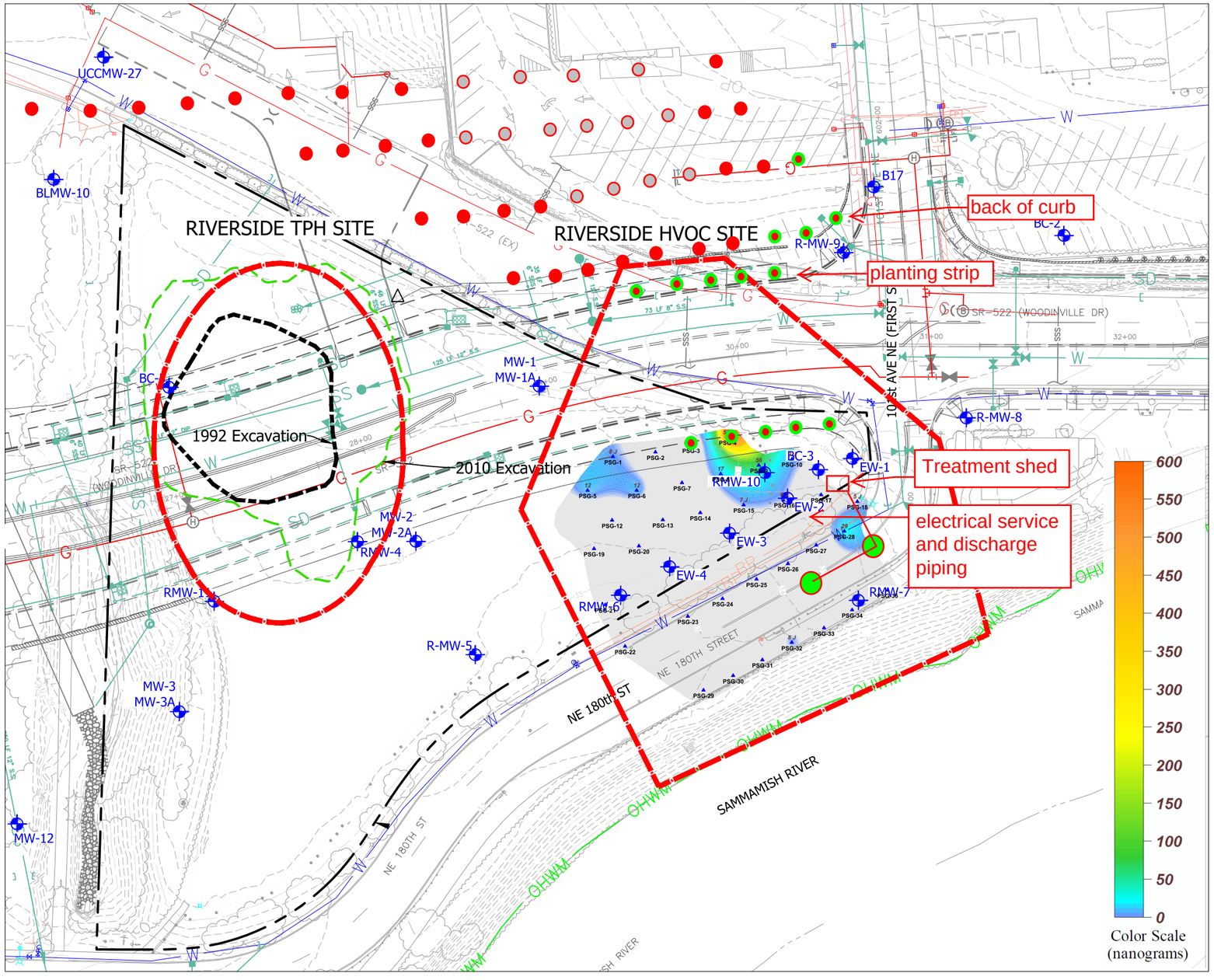
POJECT NO
2007-098



EXPLANATION OF SYMBOLS

- APPROXIMATE EXTENT OF 2010 CLEANUP EXCAVATION
- APPROXIMATE EXTENT OF 1990'S CLEANUP
- APPROXIMATE PROPERTY BOUNDARY
- SITE BOUNDARY

- R-MW-10 MONITORING WELL LOCATIONS
- PHASE 1 SOIL GAS SAMPLES, JANUARY 2016
- PROPOSED (April 2016) PHASE 2 SOIL GAS SAMPLES
- FORMER PROPOSED LOCATIONS NOT ACCESSIBLE
- NEW (June 2016) PROPOSED PHASE 2 SOIL GAS SAMPLES



HWA GeoSciences Inc.	BOTHELL RIVERSIDE RI REPORT BOTHELL, WASHINGTON	SOIL GAS SURVEY EXPOLRATION PLAN	DRAWN BY EFK CHECK BY AS DATE 10.01.15 FIGURE NO. 1 PROJECT NO. 2007-098 T2012

S:\2007-098 BOTHELL RIVERSIDE CROSSROADS\CAD 2007-098\HWA 2007-098-21 T2012B.DWG <RIVERSIDE fig 1 gas 2012> Plotted: 10/2/2015 10:44 AM

APPENDIX A

YEAR 2016 QUARTERLY KING COUNTY INDUSTRIAL WASTE REPORTS

King County

Industrial Waste Quarterly Self-Monitoring Report

Send to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

Company Name: **Bothell, City of - Riverside Groundwater Remediation Site**

This form is available at www.kingcounty.gov/industrialwaste.

Please specify year: **2016** **QUARTER 1** **Sample Site No.:** **IW1175A** **Permit/DA No.:** **4268-01**

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	1,2-Dichloro-ethylene (**Total** *cis & trans*) (µg/l)	Tetrachloro-ethylene **(PCE)** (µg/l)	Trichloro-ethylene **(TCE)** (µg/l)	Vinyl Chloride (µg/l)	1,1-Dichloro-ethane (µg/l)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
January										
	Total volume discharged for January									30,270
February										
	Total volume discharged for February									64,234
March										
	3/31/16	G	4.4	21	5.5	<0.20	<0.20	0	12010	
	Total volume discharged for March									356,845

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested

Arnie Sugar, Designated rep. for City of Bothell per Delegation of signature form dated 8/22/13

Signature of Principal Executive or Authorized Agent Date

Due date: First quarter report is due by April 15 each year.

King County

Industrial Waste Quarterly Self-Monitoring Report

Send to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

Company Name: **Bothell, City of - Riverside Groundwater Remediation Site**

This form is available at www.kingcounty.gov/industrialwaste.

Please specify year: **2016** **QUARTER 2** **Sample Site No.:** **IW1175A** **Permit/DA No.:** **4268-01**

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	1,2-Dichloro-ethylene (**Total** *cis & trans*) (µg/l)	Tetrachloro-ethylene **(PCE)** (µg/l)	Trichloro-ethylene **(TCE)** (µg/l)	Vinyl Chloride (µg/l)	1,1-Dichloro-ethane (µg/l)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
April										
									Total volume discharged for April	473,271
May										
									Total volume discharged for May	513,263
June										
	6/29/16	G	4.6	24	5.7	<0.20	<0.20	0	15,537	
									Total volume discharged for June	411,789

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested

Arnie Sugar, Designated rep. for City of Bothell per Delegation of signature form dated 8/22/13

Signature of Principal Executive or Authorized Agent Date

Due date: Second quarter report is due by July 15 each year.

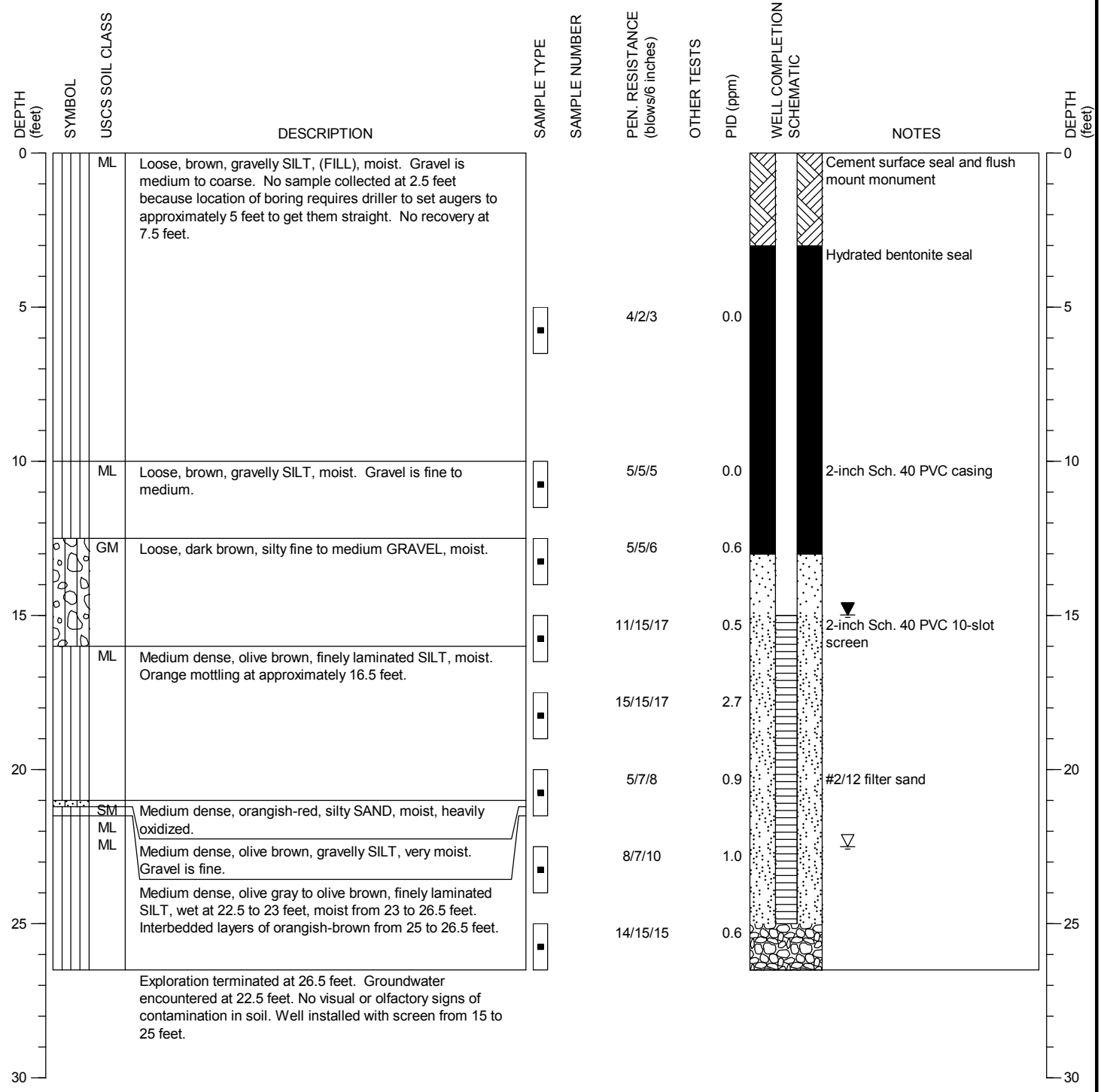
APPENDIX B

SUBSURFACE BORING LOGS, NEW WELLS

DRILLING COMPANY: Cascade Drilling, Inc.
DRILLING METHOD: Hollow Stem Auger, Modified CME-55
SAMPLING METHOD: D&M Split Spoon with 300 lb hammer
LOCATION: North of Gravel Parking Lot

SURFACE ELEVATION: ± feet
CASING ELEVATION ± feet

DATE STARTED: 7/22/2016
DATE COMPLETED: 7/22/2016
LOGGED BY: A. York



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

HWA GEOSCIENCES INC.

Bothell Crossroads RI/FS
Bothell, Washington

MONITORING WELL:
RMW-12

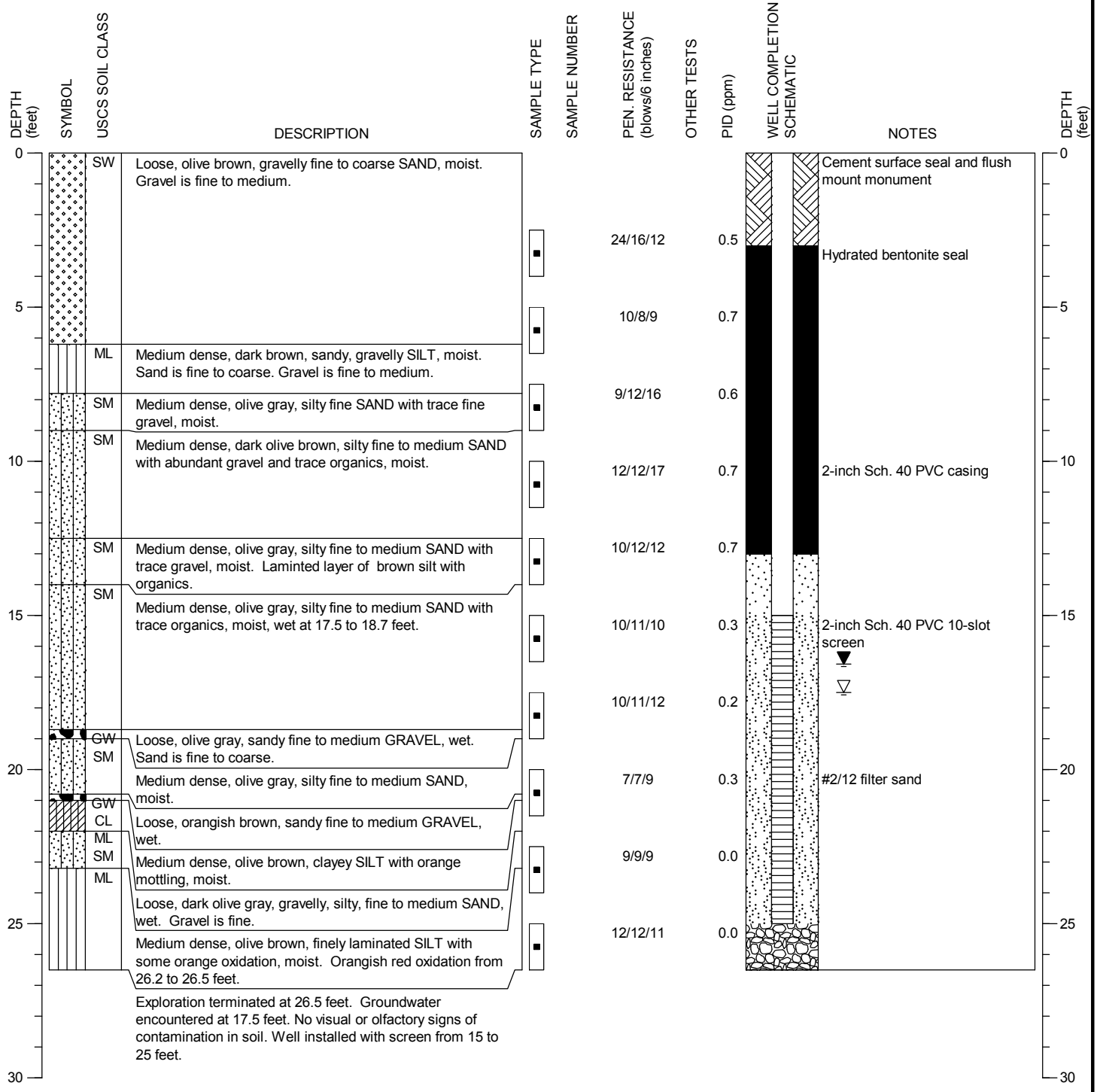
PAGE: 1 of 1

PROJECT NO.: 2007-098-800 FIGURE:

DRILLING COMPANY: Cascade Drilling, Inc.
DRILLING METHOD: Hollow Stem Auger, Modified CME-55
SAMPLING METHOD: D&M Split Spoon with 300 lb hammer
LOCATION: Paved Pathway South of 180th

SURFACE ELEVATION: ± feet
CASING ELEVATION ± feet

DATE STARTED: 7/22/2016
DATE COMPLETED: 7/22/2016
LOGGED BY: A. York



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

HWA GEOSCIENCES INC.

Bothell Crossroads RI/FS
Bothell, Washington

MONITORING WELL:
RMW-13

PAGE: 1 of 1

PROJECT NO.: 2007-098-800 FIGURE:

MWELL 2007-098-RIVERSIDE.GPJ 8/15/16

APPENDIX C

LABORATORY ANALYTICAL RESULTS, NEW WELLS

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 7, 2016

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-22
Laboratory Reference No. 1606-334

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on June 30, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: July 7, 2016
Samples Submitted: June 30, 2016
Laboratory Reference: 1606-334
Project: 2007-098-22

Case Narrative

Samples were collected on June 29 and 30, 2016 and received by the laboratory on June 30, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: July 7, 2016
Samples Submitted: June 30, 2016
Laboratory Reference: 1606-334
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EW-1**					
Laboratory ID:	06-334-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloromethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Vinyl Chloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromomethane	ND	0.36	EPA 8260C	7-6-16	7-6-16	
Chloroethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Iodomethane	ND	2.1	EPA 8260C	7-6-16	7-6-16	
Methylene Chloride	ND	1.0	EPA 8260C	7-6-16	7-6-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(cis) 1,2-Dichloroethene	4.5	0.20	EPA 8260C	7-6-16	7-6-16	
Bromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloroform	0.32	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Trichloroethene	4.2	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromomethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromodichloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	7-6-16	7-6-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EW-1**					
Laboratory ID:	06-334-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Tetrachloroethene	24	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromoform	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Bromobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*71-131*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*95*	*80-125*				

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EW-2**					
Laboratory ID:	06-334-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloromethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Vinyl Chloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromomethane	ND	0.36	EPA 8260C	7-6-16	7-6-16	
Chloroethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Iodomethane	ND	2.1	EPA 8260C	7-6-16	7-6-16	
Methylene Chloride	ND	1.0	EPA 8260C	7-6-16	7-6-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(cis) 1,2-Dichloroethene	3.2	0.20	EPA 8260C	7-6-16	7-6-16	
Bromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloroform	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Trichloroethene	4.1	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromomethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromodichloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	7-6-16	7-6-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EW-2**					
Laboratory ID:	06-334-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Tetrachloroethene	17	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromoform	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Bromobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*71-131*				
Toluene-d8	*92*	*80-127*				
4-Bromofluorobenzene	*91*	*80-125*				

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EW-3**					
Laboratory ID:	06-334-03					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Chloromethane	ND	2.0	EPA 8260C	7-6-16	7-6-16	
Vinyl Chloride	0.43	0.40	EPA 8260C	7-6-16	7-6-16	
Bromomethane	ND	0.72	EPA 8260C	7-6-16	7-6-16	
Chloroethane	ND	2.0	EPA 8260C	7-6-16	7-6-16	
Trichlorofluoromethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Iodomethane	ND	4.2	EPA 8260C	7-6-16	7-6-16	
Methylene Chloride	ND	2.0	EPA 8260C	7-6-16	7-6-16	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
2,2-Dichloropropane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
(cis) 1,2-Dichloroethene	14	0.40	EPA 8260C	7-6-16	7-6-16	
Bromochloromethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Chloroform	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Carbon Tetrachloride	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloropropene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloroethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Trichloroethene	24	0.40	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloropropane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Dibromomethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Bromodichloromethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
2-Chloroethyl Vinyl Ether	ND	2.8	EPA 8260C	7-6-16	7-6-16	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	7-6-16	7-6-16	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EW-3**					
Laboratory ID:	06-334-03					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Tetrachloroethene	79	0.40	EPA 8260C	7-6-16	7-6-16	
1,3-Dichloropropane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Dibromochloromethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromoethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Chlorobenzene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Bromoform	ND	2.0	EPA 8260C	7-6-16	7-6-16	
Bromobenzene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
2-Chlorotoluene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
4-Chlorotoluene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	7-6-16	7-6-16	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Hexachlorobutadiene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*71-131*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*100*	*80-125*				

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EW-4**					
Laboratory ID:	06-334-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloromethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Vinyl Chloride	0.61	0.20	EPA 8260C	7-6-16	7-6-16	
Bromomethane	ND	0.36	EPA 8260C	7-6-16	7-6-16	
Chloroethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Iodomethane	ND	2.1	EPA 8260C	7-6-16	7-6-16	
Methylene Chloride	ND	1.0	EPA 8260C	7-6-16	7-6-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(cis) 1,2-Dichloroethene	3.5	0.20	EPA 8260C	7-6-16	7-6-16	
Bromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloroform	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Trichloroethene	1.2	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromomethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromodichloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	7-6-16	7-6-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EW-4**					
Laboratory ID:	06-334-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Tetrachloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromoform	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Bromobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*71-131*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*97*	*80-125*				

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Project: 2007-098-22

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**DISC**					
Laboratory ID:	06-334-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloromethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Vinyl Chloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromomethane	ND	0.36	EPA 8260C	7-6-16	7-6-16	
Chloroethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Iodomethane	ND	2.1	EPA 8260C	7-6-16	7-6-16	
Methylene Chloride	ND	1.0	EPA 8260C	7-6-16	7-6-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(cis) 1,2-Dichloroethene	4.6	0.20	EPA 8260C	7-6-16	7-6-16	
Bromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloroform	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Trichloroethene	5.7	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromomethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromodichloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	7-6-16	7-6-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**DISC**					
Laboratory ID:	06-334-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Tetrachloroethene	24	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromoform	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Bromobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*71-131*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*96*	*80-125*				

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**BC-3**					
Laboratory ID:	06-334-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloromethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Vinyl Chloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromomethane	ND	0.36	EPA 8260C	7-6-16	7-6-16	
Chloroethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Iodomethane	ND	2.1	EPA 8260C	7-6-16	7-6-16	
Methylene Chloride	ND	1.0	EPA 8260C	7-6-16	7-6-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloroform	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Trichloroethene	0.93	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromomethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromodichloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	7-6-16	7-6-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**BC-3**					
Laboratory ID:	06-334-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Tetrachloroethene	3.7	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromoform	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Bromobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*71-131*				
Toluene-d8	*97*	*80-127*				
4-Bromofluorobenzene	*95*	*80-125*				

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-4**					
Laboratory ID:	06-334-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloromethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Vinyl Chloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromomethane	ND	0.36	EPA 8260C	7-6-16	7-6-16	
Chloroethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Iodomethane	ND	2.1	EPA 8260C	7-6-16	7-6-16	
Methylene Chloride	ND	1.0	EPA 8260C	7-6-16	7-6-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloroform	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Trichloroethene	0.46	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromomethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromodichloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	7-6-16	7-6-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-4**					
Laboratory ID:	06-334-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Tetrachloroethene	3.6	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromoform	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Bromobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*71-131*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*99*	*80-125*				

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-5**					
Laboratory ID:	06-334-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloromethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Vinyl Chloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromomethane	ND	0.36	EPA 8260C	7-6-16	7-6-16	
Chloroethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Iodomethane	ND	2.1	EPA 8260C	7-6-16	7-6-16	
Methylene Chloride	ND	1.0	EPA 8260C	7-6-16	7-6-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloroform	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Trichloroethene	0.31	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromomethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromodichloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	7-6-16	7-6-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-5**					
Laboratory ID:	06-334-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Tetrachloroethene	1.1	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromoform	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Bromobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*95*	*71-131*				
Toluene-d8	*93*	*80-127*				
4-Bromofluorobenzene	*92*	*80-125*				

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-6**					
Laboratory ID:	06-334-09					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloromethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Vinyl Chloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromomethane	ND	0.36	EPA 8260C	7-6-16	7-6-16	
Chloroethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Iodomethane	ND	2.1	EPA 8260C	7-6-16	7-6-16	
Methylene Chloride	ND	1.0	EPA 8260C	7-6-16	7-6-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(cis) 1,2-Dichloroethene	1.3	0.20	EPA 8260C	7-6-16	7-6-16	
Bromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloroform	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Trichloroethene	2.5	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromomethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromodichloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	7-6-16	7-6-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	

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Laboratory Reference: 1606-334
Project: 2007-098-22

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-6**					
Laboratory ID:	06-334-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Tetrachloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromoform	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Bromobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*71-131*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*99*	*80-125*				

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-7**					
Laboratory ID:	06-334-10					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Chloromethane	ND	2.0	EPA 8260C	7-6-16	7-6-16	
Vinyl Chloride	12	0.40	EPA 8260C	7-6-16	7-6-16	
Bromomethane	ND	0.72	EPA 8260C	7-6-16	7-6-16	
Chloroethane	ND	2.0	EPA 8260C	7-6-16	7-6-16	
Trichlorofluoromethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Iodomethane	ND	4.2	EPA 8260C	7-6-16	7-6-16	
Methylene Chloride	ND	2.0	EPA 8260C	7-6-16	7-6-16	
(trans) 1,2-Dichloroethene	0.68	0.40	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
2,2-Dichloropropane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
(cis) 1,2-Dichloroethene	65	0.40	EPA 8260C	7-6-16	7-6-16	
Bromochloromethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Chloroform	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Carbon Tetrachloride	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloropropene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloroethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Trichloroethene	14	0.40	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloropropane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Dibromomethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Bromodichloromethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
2-Chloroethyl Vinyl Ether	ND	2.8	EPA 8260C	7-6-16	7-6-16	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	7-6-16	7-6-16	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-7**					
Laboratory ID:	06-334-10					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Tetrachloroethene	2.3	0.40	EPA 8260C	7-6-16	7-6-16	
1,3-Dichloropropane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Dibromochloromethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromoethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Chlorobenzene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Bromoform	ND	2.0	EPA 8260C	7-6-16	7-6-16	
Bromobenzene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
2-Chlorotoluene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
4-Chlorotoluene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	7-6-16	7-6-16	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Hexachlorobutadiene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*71-131*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*100*	*80-125*				

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-8**					
Laboratory ID:	06-334-11					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloromethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Vinyl Chloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromomethane	ND	0.36	EPA 8260C	7-6-16	7-6-16	
Chloroethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Iodomethane	ND	2.1	EPA 8260C	7-6-16	7-6-16	
Methylene Chloride	ND	1.0	EPA 8260C	7-6-16	7-6-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloroform	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Trichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromomethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromodichloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	7-6-16	7-6-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-8**					
Laboratory ID:	06-334-11					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Tetrachloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromoform	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Bromobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*71-131*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*97*	*80-125*				

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-9**					
Laboratory ID:	06-334-12					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloromethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Vinyl Chloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromomethane	ND	0.36	EPA 8260C	7-6-16	7-6-16	
Chloroethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Iodomethane	ND	2.1	EPA 8260C	7-6-16	7-6-16	
Methylene Chloride	ND	1.0	EPA 8260C	7-6-16	7-6-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloroform	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Trichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromomethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromodichloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	7-6-16	7-6-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-9**					
Laboratory ID:	06-334-12					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Tetrachloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromoform	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Bromobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*71-131*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*99*	*80-125*				

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-10**					
Laboratory ID:	06-334-13					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloromethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Vinyl Chloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromomethane	ND	0.36	EPA 8260C	7-6-16	7-6-16	
Chloroethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Iodomethane	ND	2.1	EPA 8260C	7-6-16	7-6-16	
Methylene Chloride	ND	1.0	EPA 8260C	7-6-16	7-6-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloroform	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Trichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromomethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromodichloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	7-6-16	7-6-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-10**					
Laboratory ID:	06-334-13					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Tetrachloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromoform	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Bromobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*71-131*				
Toluene-d8	*94*	*80-127*				
4-Bromofluorobenzene	*92*	*80-125*				

Date of Report: July 7, 2016
Samples Submitted: June 30, 2016
Laboratory Reference: 1606-334
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**DUP-0629**					
Laboratory ID:	06-334-14					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Chloromethane	ND	2.0	EPA 8260C	7-6-16	7-6-16	
Vinyl Chloride	13	0.40	EPA 8260C	7-6-16	7-6-16	
Bromomethane	ND	0.72	EPA 8260C	7-6-16	7-6-16	
Chloroethane	ND	2.0	EPA 8260C	7-6-16	7-6-16	
Trichlorofluoromethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Iodomethane	ND	4.2	EPA 8260C	7-6-16	7-6-16	
Methylene Chloride	ND	2.0	EPA 8260C	7-6-16	7-6-16	
(trans) 1,2-Dichloroethene	0.72	0.40	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
2,2-Dichloropropane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
(cis) 1,2-Dichloroethene	66	0.40	EPA 8260C	7-6-16	7-6-16	
Bromochloromethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Chloroform	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Carbon Tetrachloride	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloropropene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloroethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Trichloroethene	13	0.40	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloropropane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Dibromomethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Bromodichloromethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
2-Chloroethyl Vinyl Ether	ND	2.8	EPA 8260C	7-6-16	7-6-16	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	7-6-16	7-6-16	

Date of Report: July 7, 2016
Samples Submitted: June 30, 2016
Laboratory Reference: 1606-334
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**DUP-0629**					
Laboratory ID:	06-334-14					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Tetrachloroethene	2.2	0.40	EPA 8260C	7-6-16	7-6-16	
1,3-Dichloropropane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Dibromochloromethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromoethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Chlorobenzene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Bromoform	ND	2.0	EPA 8260C	7-6-16	7-6-16	
Bromobenzene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	7-6-16	7-6-16	
2-Chlorotoluene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
4-Chlorotoluene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	7-6-16	7-6-16	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Hexachlorobutadiene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	7-6-16	7-6-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*71-131*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*100*	*80-125*				

Date of Report: July 7, 2016
Samples Submitted: June 30, 2016
Laboratory Reference: 1606-334
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	06-334-15					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloromethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Vinyl Chloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromomethane	ND	0.36	EPA 8260C	7-6-16	7-6-16	
Chloroethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Iodomethane	ND	2.1	EPA 8260C	7-6-16	7-6-16	
Methylene Chloride	ND	1.0	EPA 8260C	7-6-16	7-6-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloroform	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Trichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromomethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromodichloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	7-6-16	7-6-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	

Date of Report: July 7, 2016
Samples Submitted: June 30, 2016
Laboratory Reference: 1606-334
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	06-334-15					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Tetrachloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromoform	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Bromobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*71-131*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*99*	*80-125*				

Date of Report: July 7, 2016
Samples Submitted: June 30, 2016
Laboratory Reference: 1606-334
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
Page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0706W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloromethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Vinyl Chloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromomethane	ND	0.36	EPA 8260C	7-6-16	7-6-16	
Chloroethane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Iodomethane	ND	2.1	EPA 8260C	7-6-16	7-6-16	
Methylene Chloride	ND	1.0	EPA 8260C	7-6-16	7-6-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chloroform	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Trichloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromomethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromodichloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	7-6-16	7-6-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-6-16	7-6-16	

Date of Report: July 7, 2016
Samples Submitted: June 30, 2016
Laboratory Reference: 1606-334
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0706W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Tetrachloroethene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Dibromochloromethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Chlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Bromoform	ND	1.0	EPA 8260C	7-6-16	7-6-16	
Bromobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-6-16	7-6-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	7-6-16	7-6-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-6-16	7-6-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*71-131*				
Toluene-d8	*93*	*80-127*				
4-Bromofluorobenzene	*92*	*80-125*				

Date of Report: July 7, 2016
Samples Submitted: June 30, 2016
Laboratory Reference: 1606-334
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0706W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**9.75**	**9.05**	10.0	10.0	98	91	62-132	7	20	
Benzene	**10.3**	**9.71**	10.0	10.0	103	97	75-121	6	15	
Trichloroethene	**10.1**	**9.15**	10.0	10.0	101	92	65-115	10	15	
Toluene	**10.7**	**9.94**	10.0	10.0	107	99	78-120	7	15	
Chlorobenzene	**10.9**	**10.1**	10.0	10.0	109	101	77-118	8	15	
Surrogate:										
Dibromofluoromethane					*99*	*92*	*71-131*			
Toluene-d8					*101*	*94*	*80-127*			
4-Bromofluorobenzene					*96*	*91*	*80-125*			

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: HWA Geosciences
Project Number: 2007-098-22
Project Name: Riverside GW Sampling
Project Manager: Arnie Sugar
Sampled by: Austin York

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 06-334

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
1	EW-1	6-29-16	1420	water	3						X											
2	EW-2		1430																			
3	EW-3		1438																			
4	EW-4		1445																			
5	DISC		1450																			
6	BC-3		1407																			
7	RMW-4		1050																			
8	RMW-5		1136																			
9	RMW-6		1527																			
10	RMW-7	6-29-16	1608	water	3						X											

	Signature	Company	Date	Time
Relinquished		HWA Geosciences	6-30-16	1330
Received		Alpha Courier	6/30	1393
Relinquished		Alpha Courier	6/30	1415
Received			6/30/16	1415
Relinquished				
Received				

Comments/Special Instructions

Reviewed/Date

Reviewed/Date

Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐

Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: HWA Geosciences
Project Number: 2007-098-22
Project Name: Riverside GW Sampling
Project Manager: Arnie Sugar
Sampled by: Austin York

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☒ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Laboratory Number: 06-334

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
11	RMW-8	6-29-16	1642	water	3						X											
12	RMW-9	6-30-16	AM/PM 0958	↓	↓						↓											
13	RMW-10	6-29-16	1327																			
14	DUP-0629	6-29-16	—		↓						↓											
15	Trip Blank	6-29-16	—	water	2						X											

	Signature	Company	Date	Time
Relinquished		HWA Geosciences	6-30-16	1330
Received		Alpha Courier	6-30	13:43
Relinquished		Alpha Courier	6/30	1415
Received		CORE	6/30/16	1415
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐

Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 26, 2016

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-22
Laboratory Reference No. 1607-216

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on July 25, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: July 26, 2016
Samples Submitted: July 25, 2016
Laboratory Reference: 1607-216
Project: 2007-098-22

Case Narrative

Samples were collected on July 25, 2016 and received by the laboratory on July 25, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: July 26, 2016
Samples Submitted: July 25, 2016
Laboratory Reference: 1607-216
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-12**					
Laboratory ID:	07-216-01					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
Chloromethane	ND	5.0	EPA 8260C	7-25-16	7-25-16	
Vinyl Chloride	ND	1.0	EPA 8260C	7-25-16	7-25-16	
Bromomethane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
Chloroethane	ND	5.0	EPA 8260C	7-25-16	7-25-16	
Trichlorofluoromethane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethene	ND	1.0	EPA 8260C	7-25-16	7-25-16	
Iodomethane	ND	5.0	EPA 8260C	7-25-16	7-25-16	
Methylene Chloride	ND	10	EPA 8260C	7-25-16	7-25-16	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
2,2-Dichloropropane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
(cis) 1,2-Dichloroethene	14	1.0	EPA 8260C	7-25-16	7-25-16	
Bromochloromethane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
Chloroform	ND	1.0	EPA 8260C	7-25-16	7-25-16	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
Carbon Tetrachloride	ND	1.0	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloropropene	ND	1.0	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloroethane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
Trichloroethene	19	1.0	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloropropane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
Dibromomethane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
Bromodichloromethane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
2-Chloroethyl Vinyl Ether	ND	9.0	EPA 8260C	7-25-16	7-25-16	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	7-25-16	7-25-16	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	7-25-16	7-25-16	

Date of Report: July 26, 2016
Samples Submitted: July 25, 2016
Laboratory Reference: 1607-216
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-12**					
Laboratory ID:	07-216-01					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
Tetrachloroethene	120	1.0	EPA 8260C	7-25-16	7-25-16	
1,3-Dichloropropane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
Dibromochloromethane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromoethane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
Chlorobenzene	ND	1.0	EPA 8260C	7-25-16	7-25-16	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
Bromoform	ND	5.0	EPA 8260C	7-25-16	7-25-16	
Bromobenzene	ND	1.0	EPA 8260C	7-25-16	7-25-16	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
2-Chlorotoluene	ND	1.0	EPA 8260C	7-25-16	7-25-16	
4-Chlorotoluene	ND	1.0	EPA 8260C	7-25-16	7-25-16	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	7-25-16	7-25-16	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	7-25-16	7-25-16	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	7-25-16	7-25-16	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	7-25-16	7-25-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	7-25-16	7-25-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*71-131*				
Toluene-d8	*96*	*80-127*				
4-Bromofluorobenzene	*89*	*80-125*				

Date of Report: July 26, 2016
Samples Submitted: July 25, 2016
Laboratory Reference: 1607-216
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-13**					
Laboratory ID:	07-216-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Chloromethane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
Vinyl Chloride	0.24	0.20	EPA 8260C	7-25-16	7-25-16	
Bromomethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Chloroethane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Iodomethane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
Methylene Chloride	ND	2.0	EPA 8260C	7-25-16	7-25-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
(cis) 1,2-Dichloroethene	1.8	0.20	EPA 8260C	7-25-16	7-25-16	
Bromochloromethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Chloroform	0.26	0.20	EPA 8260C	7-25-16	7-25-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Trichloroethene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Dibromomethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Bromodichloromethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	7-25-16	7-25-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-25-16	7-25-16	

Date of Report: July 26, 2016
Samples Submitted: July 25, 2016
Laboratory Reference: 1607-216
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-13**					
Laboratory ID:	07-216-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Tetrachloroethene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Dibromochloromethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Chlorobenzene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Bromoform	ND	1.0	EPA 8260C	7-25-16	7-25-16	
Bromobenzene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*71-131*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*93*	*80-125*				

Date of Report: July 26, 2016
Samples Submitted: July 25, 2016
Laboratory Reference: 1607-216
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
Page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0725W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Chloromethane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
Vinyl Chloride	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Bromomethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Chloroethane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Iodomethane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
Methylene Chloride	ND	2.0	EPA 8260C	7-25-16	7-25-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Bromochloromethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Chloroform	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Trichloroethene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Dibromomethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Bromodichloromethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	7-25-16	7-25-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-25-16	7-25-16	

Date of Report: July 26, 2016
Samples Submitted: July 25, 2016
Laboratory Reference: 1607-216
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0725W2					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Tetrachloroethene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Dibromochloromethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Chlorobenzene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Bromoform	ND	1.0	EPA 8260C	7-25-16	7-25-16	
Bromobenzene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-25-16	7-25-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	7-25-16	7-25-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-25-16	7-25-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*71-131*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*95*	*80-125*				

Date of Report: July 26, 2016
Samples Submitted: July 25, 2016
Laboratory Reference: 1607-216
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0725W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**10.7**	**11.8**	10.0	10.0	107	118	62-132	10	20	
Benzene	**9.83**	**11.0**	10.0	10.0	98	110	75-121	11	15	
Trichloroethene	**7.98**	**8.67**	10.0	10.0	80	87	65-115	8	15	
Toluene	**10.3**	**11.3**	10.0	10.0	103	113	78-120	9	15	
Chlorobenzene	**10.0**	**10.7**	10.0	10.0	100	107	77-118	7	15	
Surrogate:										
Dibromofluoromethane					*100*	*99*	*71-131*			
Toluene-d8					*95*	*94*	*80-127*			
4-Bromofluorobenzene					*89*	*88*	*80-125*			

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 07-216

Company: HWA Geosciences
Project Number: 2007-098-22
Project Name: ~~Adamstown~~ Riverside
Project Manager: Arnie Soger
Sampled by: Aaron York

Turnaround Request (in working days)
(Check One)
☒ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
1	RMW-12	7-25-16	1032	~~Soil~~ Water	3						X											
2	RMW-13	7-25-16	1115	Water	3						X											

	Signature	Company	Date	Time
Relinquished		HWA	7-25-16	1315
Received		Alpha	7.25.16	13:31
Relinquished		Alpha	7.25.16	13:59
Received			7/25/16	1359
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐

Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 26, 2016

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-22
Laboratory Reference No. 1607-204

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on July 22, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: July 26, 2016
Samples Submitted: July 22, 2016
Laboratory Reference: 1607-204
Project: 2007-098-22

Case Narrative

Samples were collected on July 22, 2016 and received by the laboratory on July 22, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: July 26, 2016
Samples Submitted: July 22, 2016
Laboratory Reference: 1607-204
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-12-5'**					
Laboratory ID:	07-204-01					
Dichlorodifluoromethane	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
Chloromethane	ND	0.0044	EPA 8260C	7-25-16	7-25-16	
Vinyl Chloride	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
Bromomethane	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
Chloroethane	ND	0.0044	EPA 8260C	7-25-16	7-25-16	
Trichlorofluoromethane	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethene	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
Iodomethane	ND	0.0044	EPA 8260C	7-25-16	7-25-16	
Methylene Chloride	ND	0.0044	EPA 8260C	7-25-16	7-25-16	
(trans) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethane	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
2,2-Dichloropropane	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
(cis) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
Bromochloromethane	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
Chloroform	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
1,1,1-Trichloroethane	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
Carbon Tetrachloride	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloropropene	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloroethane	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
Trichloroethene	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloropropane	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
Dibromomethane	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
Bromodichloromethane	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	7-25-16	7-25-16	
(cis) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
(trans) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	7-25-16	7-25-16	

Date of Report: July 26, 2016
Samples Submitted: July 22, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-12-5'**					
Laboratory ID:	07-204-01					
1,1,2-Trichloroethane	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
Tetrachloroethene	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
1,3-Dichloropropane	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
Dibromochloromethane	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromoethane	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
Chlorobenzene	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
1,1,1,2-Tetrachloroethane	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
Bromoform	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
Bromobenzene	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
1,1,2,2-Tetrachloroethane	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichloropropane	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
2-Chlorotoluene	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
4-Chlorotoluene	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
1,3-Dichlorobenzene	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
1,4-Dichlorobenzene	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
1,2-Dichlorobenzene	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	7-25-16	7-25-16	
1,2,4-Trichlorobenzene	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichlorobenzene	ND	0.00088	EPA 8260C	7-25-16	7-25-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*76-131*				
Toluene-d8	*108*	*80-126*				
4-Bromofluorobenzene	*92*	*60-146*				

Date of Report: July 26, 2016
Samples Submitted: July 22, 2016
Laboratory Reference: 1607-204
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-12-12.5'**					
Laboratory ID:	07-204-03					
Dichlorodifluoromethane	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
Chloromethane	ND	0.0045	EPA 8260C	7-25-16	7-25-16	
Vinyl Chloride	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
Bromomethane	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
Chloroethane	ND	0.0045	EPA 8260C	7-25-16	7-25-16	
Trichlorofluoromethane	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethene	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
Iodomethane	ND	0.0045	EPA 8260C	7-25-16	7-25-16	
Methylene Chloride	ND	0.0045	EPA 8260C	7-25-16	7-25-16	
(trans) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethane	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
2,2-Dichloropropane	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
(cis) 1,2-Dichloroethene	0.0029	0.00091	EPA 8260C	7-25-16	7-25-16	
Bromochloromethane	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
Chloroform	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
1,1,1-Trichloroethane	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
Carbon Tetrachloride	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloropropene	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloroethane	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
Trichloroethene	0.0061	0.00091	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloropropane	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
Dibromomethane	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
Bromodichloromethane	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	7-25-16	7-25-16	
(cis) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
(trans) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	7-25-16	7-25-16	

Date of Report: July 26, 2016
Samples Submitted: July 22, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-12-12.5'**					
Laboratory ID:	07-204-03					
1,1,2-Trichloroethane	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
Tetrachloroethene	0.012	0.00091	EPA 8260C	7-25-16	7-25-16	
1,3-Dichloropropane	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
Dibromochloromethane	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromoethane	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
Chlorobenzene	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
1,1,1,2-Tetrachloroethane	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
Bromoform	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
Bromobenzene	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
1,1,2,2-Tetrachloroethane	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichloropropane	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
2-Chlorotoluene	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
4-Chlorotoluene	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
1,3-Dichlorobenzene	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
1,4-Dichlorobenzene	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
1,2-Dichlorobenzene	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	7-25-16	7-25-16	
1,2,4-Trichlorobenzene	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichlorobenzene	ND	0.00091	EPA 8260C	7-25-16	7-25-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*112*	*76-131*				
Toluene-d8	*115*	*80-126*				
4-Bromofluorobenzene	*102*	*60-146*				

Date of Report: July 26, 2016
Samples Submitted: July 22, 2016
Laboratory Reference: 1607-204
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-12-17.5'**					
Laboratory ID:	07-204-05					
Dichlorodifluoromethane	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
Chloromethane	ND	0.0050	EPA 8260C	7-25-16	7-25-16	
Vinyl Chloride	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
Bromomethane	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
Chloroethane	ND	0.0050	EPA 8260C	7-25-16	7-25-16	
Trichlorofluoromethane	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethene	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
Iodomethane	ND	0.0050	EPA 8260C	7-25-16	7-25-16	
Methylene Chloride	ND	0.0050	EPA 8260C	7-25-16	7-25-16	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethane	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
2,2-Dichloropropane	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
(cis) 1,2-Dichloroethene	0.0011	0.00099	EPA 8260C	7-25-16	7-25-16	
Bromochloromethane	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
Chloroform	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
Carbon Tetrachloride	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloropropene	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloroethane	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
Trichloroethene	0.0025	0.00099	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloropropane	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
Dibromomethane	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
Bromodichloromethane	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	7-25-16	7-25-16	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	7-25-16	7-25-16	

Date of Report: July 26, 2016
Samples Submitted: July 22, 2016
Laboratory Reference: 1607-204
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-12-17.5'**					
Laboratory ID:	07-204-05					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
Tetrachloroethene	0.024	0.00099	EPA 8260C	7-25-16	7-25-16	
1,3-Dichloropropane	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
Dibromochloromethane	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromoethane	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
Chlorobenzene	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
Bromoform	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
Bromobenzene	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
1,1,2,2-Tetrachloroethane	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
2-Chlorotoluene	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
4-Chlorotoluene	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	7-25-16	7-25-16	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260C	7-25-16	7-25-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*114*	*76-131*				
Toluene-d8	*117*	*80-126*				
4-Bromofluorobenzene	*109*	*60-146*				

Date of Report: July 26, 2016
Samples Submitted: July 22, 2016
Laboratory Reference: 1607-204
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-12-22.5'**					
Laboratory ID:	07-204-07					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Chloromethane	ND	0.0052	EPA 8260C	7-25-16	7-25-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Bromomethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Chloroethane	ND	0.0052	EPA 8260C	7-25-16	7-25-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Iodomethane	ND	0.0052	EPA 8260C	7-25-16	7-25-16	
Methylene Chloride	ND	0.0052	EPA 8260C	7-25-16	7-25-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Bromochloromethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Chloroform	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Trichloroethene	0.0058	0.0010	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Dibromomethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	7-25-16	7-25-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	

Date of Report: July 26, 2016
Samples Submitted: July 22, 2016
Laboratory Reference: 1607-204
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-12-22.5'**					
Laboratory ID:	07-204-07					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Tetrachloroethene	0.59	0.062	EPA 8260C	7-25-16	7-25-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Chlorobenzene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Bromoform	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Bromobenzene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	7-25-16	7-25-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*110*	*76-131*				
Toluene-d8	*116*	*80-126*				
4-Bromofluorobenzene	*102*	*60-146*				

Date of Report: July 26, 2016
Samples Submitted: July 22, 2016
Laboratory Reference: 1607-204
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-13-5'**					
Laboratory ID:	07-204-10					
Dichlorodifluoromethane	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
Chloromethane	ND	0.0046	EPA 8260C	7-25-16	7-25-16	
Vinyl Chloride	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
Bromomethane	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
Chloroethane	ND	0.0046	EPA 8260C	7-25-16	7-25-16	
Trichlorofluoromethane	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethene	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
Iodomethane	ND	0.0046	EPA 8260C	7-25-16	7-25-16	
Methylene Chloride	ND	0.0046	EPA 8260C	7-25-16	7-25-16	
(trans) 1,2-Dichloroethene	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethane	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
2,2-Dichloropropane	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
(cis) 1,2-Dichloroethene	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
Bromochloromethane	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
Chloroform	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
1,1,1-Trichloroethane	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
Carbon Tetrachloride	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloropropene	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloroethane	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
Trichloroethene	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloropropane	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
Dibromomethane	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
Bromodichloromethane	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0046	EPA 8260C	7-25-16	7-25-16	
(cis) 1,3-Dichloropropene	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
(trans) 1,3-Dichloropropene	ND	0.00092	EPA 8260C	7-25-16	7-25-16	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-13-5'**					
Laboratory ID:	07-204-10					
1,1,2-Trichloroethane	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
Tetrachloroethene	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
1,3-Dichloropropane	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
Dibromochloromethane	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromoethane	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
Chlorobenzene	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
1,1,1,2-Tetrachloroethane	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
Bromoform	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
Bromobenzene	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
1,1,2,2-Tetrachloroethane	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichloropropane	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
2-Chlorotoluene	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
4-Chlorotoluene	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
1,3-Dichlorobenzene	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
1,4-Dichlorobenzene	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
1,2-Dichlorobenzene	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0046	EPA 8260C	7-25-16	7-25-16	
1,2,4-Trichlorobenzene	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
Hexachlorobutadiene	ND	0.0046	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichlorobenzene	ND	0.00092	EPA 8260C	7-25-16	7-25-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*118*	*76-131*				
Toluene-d8	*121*	*80-126*				
4-Bromofluorobenzene	*100*	*60-146*				

Date of Report: July 26, 2016
Samples Submitted: July 22, 2016
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Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-13-12.5'**					
Laboratory ID:	07-204-13					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
Chloromethane	ND	0.0074	EPA 8260C	7-25-16	7-25-16	
Vinyl Chloride	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
Bromomethane	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
Chloroethane	ND	0.0074	EPA 8260C	7-25-16	7-25-16	
Trichlorofluoromethane	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethene	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
Iodomethane	ND	0.0074	EPA 8260C	7-25-16	7-25-16	
Methylene Chloride	ND	0.0074	EPA 8260C	7-25-16	7-25-16	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethane	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
2,2-Dichloropropane	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
(cis) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
Bromochloromethane	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
Chloroform	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
Carbon Tetrachloride	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloropropene	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloroethane	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
Trichloroethene	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
Dibromomethane	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
Bromodichloromethane	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0074	EPA 8260C	7-25-16	7-25-16	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	7-25-16	7-25-16	

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Project: 2007-098-22

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-13-12.5'**					
Laboratory ID:	07-204-13					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
Tetrachloroethene	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
1,3-Dichloropropane	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
Dibromochloromethane	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromoethane	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
Chlorobenzene	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
Bromoform	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
Bromobenzene	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
1,1,2,2-Tetrachloroethane	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
2-Chlorotoluene	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
4-Chlorotoluene	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
1,3-Dichlorobenzene	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
1,4-Dichlorobenzene	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
1,2-Dichlorobenzene	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0074	EPA 8260C	7-25-16	7-25-16	
1,2,4-Trichlorobenzene	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
Hexachlorobutadiene	ND	0.0074	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichlorobenzene	ND	0.0015	EPA 8260C	7-25-16	7-25-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*76-131*				
Toluene-d8	*100*	*80-126*				
4-Bromofluorobenzene	*88*	*60-146*				

Date of Report: July 26, 2016
Samples Submitted: July 22, 2016
Laboratory Reference: 1607-204
Project: 2007-098-22

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-13-17.5'**					
Laboratory ID:	07-204-15					
Dichlorodifluoromethane	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
Chloromethane	ND	0.0048	EPA 8260C	7-25-16	7-25-16	
Vinyl Chloride	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
Bromomethane	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
Chloroethane	ND	0.0048	EPA 8260C	7-25-16	7-25-16	
Trichlorofluoromethane	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethene	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
Iodomethane	ND	0.0048	EPA 8260C	7-25-16	7-25-16	
Methylene Chloride	ND	0.0048	EPA 8260C	7-25-16	7-25-16	
(trans) 1,2-Dichloroethene	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethane	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
2,2-Dichloropropane	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
(cis) 1,2-Dichloroethene	0.0014	0.00096	EPA 8260C	7-25-16	7-25-16	
Bromochloromethane	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
Chloroform	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
1,1,1-Trichloroethane	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
Carbon Tetrachloride	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloropropene	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloroethane	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
Trichloroethene	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloropropane	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
Dibromomethane	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
Bromodichloromethane	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	7-25-16	7-25-16	
(cis) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
(trans) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	7-25-16	7-25-16	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-13-17.5'**					
Laboratory ID:	07-204-15					
1,1,2-Trichloroethane	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
Tetrachloroethene	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
1,3-Dichloropropane	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
Dibromochloromethane	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromoethane	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
Chlorobenzene	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
1,1,1,2-Tetrachloroethane	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
Bromoform	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
Bromobenzene	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
1,1,2,2-Tetrachloroethane	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichloropropane	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
2-Chlorotoluene	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
4-Chlorotoluene	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
1,3-Dichlorobenzene	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
1,4-Dichlorobenzene	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
1,2-Dichlorobenzene	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	7-25-16	7-25-16	
1,2,4-Trichlorobenzene	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichlorobenzene	ND	0.00096	EPA 8260C	7-25-16	7-25-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*110*	*76-131*				
Toluene-d8	*114*	*80-126*				
4-Bromofluorobenzene	*103*	*60-146*				

Date of Report: July 26, 2016
Samples Submitted: July 22, 2016
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Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-13-22.5'**					
Laboratory ID:	07-204-17					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Chloromethane	ND	0.0051	EPA 8260C	7-25-16	7-25-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Bromomethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Chloroethane	ND	0.0051	EPA 8260C	7-25-16	7-25-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Iodomethane	ND	0.0051	EPA 8260C	7-25-16	7-25-16	
Methylene Chloride	ND	0.0051	EPA 8260C	7-25-16	7-25-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Bromochloromethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Chloroform	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Trichloroethene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Dibromomethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	7-25-16	7-25-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	

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Samples Submitted: July 22, 2016
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Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RMW-13-22.5'**					
Laboratory ID:	07-204-17					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Chlorobenzene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Bromoform	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Bromobenzene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	7-25-16	7-25-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*76-131*				
Toluene-d8	*104*	*80-126*				
4-Bromofluorobenzene	*85*	*60-146*				

Date of Report: July 26, 2016
Samples Submitted: July 22, 2016
Laboratory Reference: 1607-204
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0725S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Chloromethane	ND	0.0050	EPA 8260C	7-25-16	7-25-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Bromomethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Chloroethane	ND	0.0050	EPA 8260C	7-25-16	7-25-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Iodomethane	ND	0.0050	EPA 8260C	7-25-16	7-25-16	
Methylene Chloride	ND	0.0050	EPA 8260C	7-25-16	7-25-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Bromochloromethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Chloroform	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Trichloroethene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Dibromomethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	7-25-16	7-25-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	

Date of Report: July 26, 2016
Samples Submitted: July 22, 2016
Laboratory Reference: 1607-204
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0725S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Chlorobenzene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Bromoform	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Bromobenzene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	7-25-16	7-25-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	7-25-16	7-25-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	7-25-16	7-25-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*113*	*76-131*				
Toluene-d8	*115*	*80-126*				
4-Bromofluorobenzene	*108*	*60-146*				

Date of Report: July 26, 2016
Samples Submitted: July 22, 2016
Laboratory Reference: 1607-204
Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0725S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0498**	**0.0478**	0.0500	0.0500	100	96	68-126	4	15	
Benzene	**0.0520**	**0.0514**	0.0500	0.0500	104	103	75-121	1	15	
Trichloroethene	**0.0507**	**0.0504**	0.0500	0.0500	101	101	75-120	1	15	
Toluene	**0.0524**	**0.0539**	0.0500	0.0500	105	108	80-120	3	15	
Chlorobenzene	**0.0461**	**0.0488**	0.0500	0.0500	92	98	76-120	6	15	
Surrogate:										
Dibromofluoromethane					*113*	*105*	*76-131*			
Toluene-d8					*116*	*108*	*80-126*			
4-Bromofluorobenzene					*101*	*103*	*60-146*			

Date of Report: July 26, 2016
Samples Submitted: July 22, 2016
Laboratory Reference: 1607-204
Project: 2007-098-22

% MOISTURE

Date Analyzed: 7-25-16

Client ID	Lab ID	% Moisture
RMW-12-5'	07-204-01	6
RMW-12-12.5'	07-204-03	13
RMW-12-17.5'	07-204-05	16
RMW-12-22.5'	07-204-07	19
RMW-13-5'	07-204-10	11
RMW-13-12.5'	07-204-13	29
RMW-13-17.5'	07-204-15	15
RMW-13-22.5'	07-204-17	17

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: HWA Geosciences
Project Number: 2007-098-22
Project Name: Riverside
Project Manager: Arnie Sugar / Nicole Kapise
Sampled by: Austin York

Turnaround Request (in working days)
(Check One)
- [x] Same Day
- [ ] 1 Day
- [ ] 2 Days
- [ ] 3 Days
- [x] Standard (7 Days) (TPH analysis 5 Days)
- [ ) _____ (other)

Laboratory Number: 07-204

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	HVOCs					% Moisture
1	RMW-12-5'	7-22-16	0920	Soil	4						X											X						X
2	RMW-12-10'		0925																									
3	RMW-12-12.5'		0935																			X						
4	RMW-12-15'		0943																									
5	RMW-12-17.5'		0948																			X						
6	RMW-12-20'		0955																									
7	RMW-12-22.5'		1010																			X						
8	RMW-12-25'		1025																									
9	RMW-13-2.5'		1225																									
10	RMW-13-5'	7-22-16	1232	Soil							X											X						X

	Signature	Company	Date	Time
Relinquished	Nicole Kapise	HWA	7/22/16	3:90
Received		GSE	7/22/16	1540
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐

Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: HWA Geosciences
Project Number: 2007-098-22
Project Name: Riverside
Project Manager: Annie Sugar / Nicole Kaprise
Sampled by: Austin York

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 07-204

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	HVOCs	% Moisture
11	RMW-13-7.5'	7.22.16	1236	Soil	4						X												
12	RMW-13-10'		1242																				
13	RMW-13-12.5'		1245																			X	X
14	RMW-13-15'		1250																				
15	RMW-13-17.5'		1253																			X	X
16	RMW-13-20'		1257																				
17	RMW-13-22.5'		1302																			X	X
18	RMW-13-25'	7.22.16	1307	Soil							X												

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	Nicole Kaprise	HWA	7/22/16	15:40	
Received		OSE	7/22/16	1540	
Relinquished					
Received					
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐

Data Package: Standard ☐ Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____