Report

Second Half 2018 Groundwater Monitoring Report

J.H. Baxter & Co. Wood Treating Facility
Eugene, Oregon
ECSI No. 55

Prepared for

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Tables

Figures

Appendices

1. Introduction

This report presents the results of groundwater monitoring activities conducted in the second half of 2018 at the J.H. Baxter & Co. (Baxter or J.H. Baxter) facility in Eugene, Oregon (facility or Site), located at 85 Baxter Street (Figures 1 and 2). Groundwater monitoring activities were conducted in accordance with the *Groundwater Monitoring Work Plan* (Hart Crowser, 2001), *Revised Groundwater Monitoring Work Plan* (Baxter, 2003), and *Revised Monitoring Program May 2015* (Baxter, 2015).

The facility has a total of 3 extraction wells and 40 monitoring wells. Additionally, an offsite well not owned by Baxter is included in the monitoring well network. The wells are:

- **Extraction Wells** (total of 3): W-13S, W-13I, and W-20I
- **Onsite Monitoring Wells** (total of 25): W-1S, W-2S, W-2I, W-3S, W-4S, W-5I, W-6I, W-7S, W-8S, W-8I, W-9S, W-9I, W-11S, W-11I, W-12I, W-12D, W-13D, W-14I, W-15S, W-18AS, W-18AI, W-21S, W-21I, W-22S, and W-23
- **Offsite Monitoring Wells** (total of 16): W-16AS, W-16AI, W-17AS, W-17AI, W-17BI, W-18BI, W-19AS, W-24, W-25, W-26, W-28, W-29, W-32, W-34, and W-35
- **Non-Baxter Offsite Monitoring Well**: Zip-O-Log

Of these wells, 17 were sampled in September 2018 for Site-related constituents in agreement with the *Revised Monitoring Program May 2015* (Baxter, 2015). On May 7, 2015, the *Revised Monitoring Program May 2015* was approved by the Oregon Department of Environmental Quality (DEQ; DEQ, 2015). The revised monitoring program requires the sampling of 4 wells semiannually in March and September, and 13 additional wells annually in September. Wells are sampled for phenols. This report summarizes the results of the September 2018 monitoring event and the groundwater extraction data through December 2018.

2. Monitoring Activities

The groundwater monitoring event was conducted between September 26 and 27, 2018. Field activities, including groundwater level measurements and groundwater sampling, were completed by Baxter personnel. Wells were sampled using low-flow methods as described in the *Revised Groundwater Monitoring Work Plan* (Baxter, 2003), with a portable submersible pump that was decontaminated between each well. Groundwater samples, equipment decontamination, and sample custody procedures were in accordance with previous sampling events, the *Groundwater Monitoring Work Plan* (Hart Crowser, 2001), and *Revised Groundwater Monitoring Work Plan* (Baxter, 2003).

Groundwater samples were analyzed by TestAmerica Laboratories, Inc. (TestAmerica), of Arvada, Colorado, for the following:

- Phenols by U.S. Environmental Protection Agency (EPA) Method 8270C Low Levels (LL)

Groundwater levels were measured at 40 wells and groundwater samples were collected from 17 wells. The laboratory report is presented in Appendix A and groundwater sampling forms are presented in Appendix B.

One field blind, or duplicate, was collected at well W-20I on September 26, 2018 and one equipment blank was collected on September 27, 2018. The blind and equipment blank were analyzed for phenols.

3. Groundwater Elevations

Groundwater elevations are presented in Table 1. Groundwater elevation contours are presented in Figures 3 and 4, with the shallow zone contoured in Figure 3 and the intermediate zone contoured in Figure 4. The groundwater contour maps for both the shallow and intermediate zones show that the extraction system is achieving capture of the source area.

4. Analytical Results

Groundwater samples for the September 2018 monitoring event were analyzed for phenols. The laboratory results are provided in Table 2 and Appendix A. Pentachlorophenol (PCP) results are presented in Figure 5 and time series plots are presented in Appendix C. Note that the non-detect values on the time series plots are shown as hollow symbols so that when method detection limits (MDL) are elevated, it is not misinterpreted as representing the concentration in the well. Also note that the number of time series plots presented have been reduced for the second half of 2018 to only continuing to present plots of wells still being sampled.

4.1 Onsite Monitoring Wells

Six onsite monitoring wells were sampled during the September 2018 monitoring event. PCP was detected in three of the onsite wells, with concentrations ranging from 2 to 1,800 micrograms per liter (µg/L). The highest concentration of PCP was found in well W-7S. Figure C-1 in Appendix C shows that the concentrations in well W-7S have generally decreased from a high of 4,000 µg/L in 2009, but have continued to increase since the October 2016 sampling event. The reason for the rising trend is unknown but may indicate more effective movement of PCP from points upgradient of W-7S towards the extraction well. Additionally, there is no increase in the extraction well concentration indicating a new source. Concentrations in well W-12I (Figure C-3) have continued to exhibit a decreasing trend since 2014. Concentrations in all other well sampled continue to decrease towards reporting limits or are stable around or below method reporting limits (MRLs).

Well W-7S had estimated detections for 2,4,6-trichlorophenol, 2,4-dichlorophenol, 2,4-dimethylphenol, 2-chlorophenol, 2-methylphenol, 3 & 4 methylphenol, 4-methylphenol, and phenol, with concentrations ranging from 0.5 µg/L (J-flag) to 2.4 µg/L (J-flag). There were also estimated detections of phenol at wells W-11S and W-11I with concentrations of 0.31 µg/L (J-flag) to 0.16 µg/L (J-flag), respectively. No other phenols were detected at any onsite monitoring wells.

The time-series plots for onsite monitoring wells show that onsite concentrations are decreasing or stable.

4.2 Onsite Extraction Wells

PCP was detected in the three onsite extraction wells during the September 2018 monitoring event, with concentrations ranging from 8.5 (J-flag) to 370 µg/L. The highest detection was in well W-13I. With the exception of an estimated detection of phenol in extraction well W-13S of 0.16 µg/L (J-flag), no other phenols were detected in onsite extraction wells. Concentrations in W-13S (Figure C-4) appear to have stabilized near reporting limits since first quarter of 2015. Concentrations in W-13I (Figure C-4) have appeared to stabilize around 400 since the first quarter of 2015 indicating consistent and continuous removal of PCPs µg/L since the first quarter of 2015 and concentrations in W-20I (Figure C-8) have appeared to stabilize around 25 µg/L since the third quarter of 2015 indicating consistent and continuous removal of PCPs in intermediate zone groundwater over time.

4.3 Offsite Monitoring Wells

PCP was detected in five of the eight off-site monitoring wells sampled during the September 2018 monitoring event. The concentrations ranged from 2.3 (J-flag) to 32 µg/L. The highest offsite concentration of PCP was in well W-26, which is located west of the Site. No other phenols were detected.

Overall, offsite wells have shown a general decline in PCP concentration since 2011 (Figures C-6 and C-9). The second half 2018 detections in Well W-26 was elevated from the non-detect in the first half of 2018 but remains less than historical average and is on a continued decreasing trend.

4.4 Quality Assurance and Quality Control

Groundwater samples for the September 2018 monitoring event were analyzed by TestAmerica. The case narrative in the laboratory report (Appendix A) describes the flags or footnotes associated with exceptions to standard analytical protocols and is summarized below. The results are considered usable with the appropriate flags.

Sample coolers for the September 2018 monitoring event arrived at the laboratory in good condition and below EPA's 6 degrees Celsius (˚C) recommendation.

Samples for W-7S, W-12I, and W-13I required dilution before the EPA Method 8270C LL analysis and MRLs were adjusted accordingly.

EPA Method 8270C LL surrogate recoveries did not meet the surrogate recovery criteria for Phenol-d5 and 2-Fluorophenol in the W-11S sample. Matrix interference was present so no re-extraction and/or re-analysis were performed. Surrogate recovery criteria was not met for Phenol-d5 and 2-Flourobiphenyl in the W-32 sample and for Terphenyl-d14 in the blind (W-20I duplicate) sample. No evidence of matrix interference was obvious and the sample results were reported with narration. Surrogate recovery criteria was not met for Phenol-d5 and 2-Flourobiphenyl in the W-13I and W-7S samples in the diluted samples. Dilution was

required due to interference or analytes at high concentrations. No further qualification was applied.

TestAmerica qualified analytes with a concentration detected above the MDL, but below the MRL with a J-flag. This qualification indicates an estimated concentration because the result is quantitatively uncertain.

An equipment rinsate blank was collected during the September 2018 monitoring event. The blank was analyzed for phenols. No analyte was detected above the MDL in the blank. Following EPA guidelines for blank detections, no modifications were made to sample results.

One blind sample was collected during the September 2018 monitoring event from W-20I. The blind sample was analyzed for phenols. The parent sample and blind results were found to contain an over 20 percent difference is comparable values for PCP but only 4 µg/L difference in absolute value. At low concentrations, percent differences can vary more significantly and it is determined the data is acceptable for use. (Table 2).

5. Groundwater Extraction and Treatment System

The groundwater extraction and treatment system consists of three wells, a filtration system, and granulated activated carbon. The system was in operation approximately 184 days, from July 1, 2018, to December 31, 2018. The pumping rates and extracted constituent mass are presented in Table 3.

During the second half of 2018, approximately 13.25 million gallons (MG) of groundwater were extracted and sent through the treatment system. An extracted contaminant mass for PCP was calculated on the basis of September 2018 analytical results for each extraction well (Table 3). In the second half of 2018, approximately 9.5 pounds of PCP were removed.

Since January 1994, approximately 619 MG of groundwater have been extracted and treated. Approximately 1,653 pounds of PCP have been extracted since January 1994. Polycyclic aromatic hydrocarbons (PAH) and total metals were analyzed in groundwater samples through June 2015, so a calculated mass of 4.5 pounds of PAHs and 3.6 pounds of total metals were extracted between January 1994 and June 2015. PAHs and total metals are still extracted from groundwater, but the mass removed is no longer quantified as of June 2015.

6. First Half 2019 Activities

Semiannual and annual groundwater monitoring will be conducted for the first half of 2019 in accordance with the *Revised Monitoring Program May 2015* (Baxter, 2015), and will occur in March 2019.

7. References

Baxter. 2003. Revised Groundwater Monitoring Work Plan J.H. Baxter & Co. Wood Preserving Facility, 85 Baxter Road, Eugene, Oregon. Prepared by J.H. Baxter & Co. March 7, 2003.

Baxter. 2015. Revised Monitoring Program May 2015 J.H. Baxter Eugene Site ESCI No. 55. Prepared by J.H. Baxter & Co. May 1, 2015.

DEQ. 2015. Email message from Greg Aitken, Oregon Department of Environmental Quality, to Heidi Blischke re: "RE: Groundwater Monitoring Program for the Baxter Site as Discussed at our Meeting." May 7, 2015.

Hart Crowser. 2001. Groundwater Monitoring Work Plan J.H. Baxter Wood Preserving Eugene Facility. Prepared by Hart Crowser, Inc. May 22, 2001.

Tables

Table 1. Groundwater Elevation Summary

J.H. Baxter Wood Treating Facility

Eugene, Oregon

Well ID	Top of Casing Elevation (ft msl)	Depth to Well Bottom (ft)	Depth to Water (ft)	Groundwater Elevation (ft amsl)
			9/27/2018	
W-1S	395.91	28.5	13.12	382.79
W-2S	393.16	27.6	--	--
W-2I	394.23	81.71	11.75	382.48
W-3S	395.01	33	--	--
W-4S	396.56	22.3	11.84	384.72
W-5I	396.71	75.5	13.53	383.18
W-6I	397.77	70	16.50	381.27
W-7S	397.66	20	15.80	381.86
W-8S	395.90	20.17	10.35	385.55
W-8I	393.66	82.33	11.28	382.38
W-9S	396.45	25	12.41	384.04
W-9I	396.19	67	12.00	384.19
W-11S	394.17	24.85	12.37	381.80
W-11I	394.17	83	14.12	380.05
W-12I	395.62	78.5	16.98	378.64
W-12D	395.54	133.75	19.16	376.38
W-13S	396.71	29.02	24.28	372.43
W-13I	396.15	71.46	45.71	350.44
W-13D	396.40	133.51	19.52	376.88
W-14I	395.60	77.5	14.18	381.42
W-15S	396.62	28	13.77	382.85
W-16AS	391.86	24.98	7.31	384.55
W-16AI	391.86	81.85	13.71	378.15
W-17AS	390.29	23.67	9.20	381.09
W-17AI	390.80	87.42	12.24	378.56
W-17BI	392.08	84.88	13.15	378.93
W-18AS	392.84	25.05	10.03	382.81
W-18AI	393.70	86.81	14.63	379.07
W-18BI	391.98	88.6	--	--
W-19AS	393.82	23.66	11.00	382.82
W-20I	397.10	85	37.27	359.83
W-21S	393.80	16.75	9.07	384.73
W-21I	393.80	81.42	8.94	384.86
W-22S	396.72	19.38	13.71	383.01
W-23	396.16	55.5	15.87	380.29
W-24	391.64	65	12.24	379.40
W-25	389.92	64	11.07	378.85
W-26	390.14	79	11.03	379.11
W-28	390.01	84.42	11.41	378.60
W-29	388.56	74.83	10.14	378.42
W-32	388.35	74	11.13	377.22
W-34	389.17	76	11.73	377.44
W-35	391.46	77	11.75	379.71

Notes

-- = not measured.

ft amsl = feet above mean sea level.

Table 2. Phenol Analytical Results in Groundwater Samples
J.H. Baxter Wood Treating Facility
Eugene, Oregon

Well ID	Well Location	Sample Date	2,4,5-Trichlorophenol[1] (µg/L)	2,4,6-Trichlorophenol[1] (µg/L)	2,4-Dichlorophenol[1] (µg/L)	2,4-Dimethylphenol[1] (µg/L)	2,4-Dinitrophenol[1] (µg/L)	2,6-Dichlorophenol[1] (µg/L)	2-Chlorophenol[1] (µg/L)	2-Methylphenol[1] (µg/L)	2-Nitrophenol[1] (µg/L)	3 & 4 Methylphenol[1] (µg/L)	4-Chloro-3-methylphenol[1] (µg/L)	4-Methylphenol[1] (µg/L)	4-Nitrophenol[1] (µg/L)	Pentachlorophenol[1] (µg/L)	Phenol[1] (µg/L)
W-6I	On-Site	9/27/2018	0.066 U	0.10 U	0.047 U	0.38 U	1.9 U	0.10 U	0.089 U	0.047 U	0.24 U	0.095 U	0.26 U	0.095 U	0.95 U	0.76 U	0.095 U
W-7S	On-Site	9/27/2018	0.066 U	**0.97 J**	**2.4 J**	**4.3 J**	1.9 U	0.10 U	**0.50 J**	**2.1 J**	0.24 U	**2.0 J**	0.26 U	**2.0 J**	0.95 U	**1,800**	**0.86 J**
W-11S	On-Site	9/27/2018	0.066 U	0.10 U	0.047 U	0.38 U	1.9 U	0.10 U	0.089 U	0.047 U	0.24 U	0.095 U	0.26 U	0.095 U	0.95 U	0.76 U	**0.31 J**
W-11I	On-Site	9/27/2018	0.066 U	0.10 U	0.047 U	0.38 U	1.9 U	0.10 U	0.089 U	0.047 U	0.24 U	0.095 U	0.26 U	0.095 U	0.95 U	**2.0**	**0.16 J**
W-12I	On-Site	9/27/2018	0.066 U	0.10 U	0.047 U	0.38 U	1.9 U	0.10 U	0.089 U	0.047 U	0.24 U	0.095 U	0.26 U	0.095 U	0.95 U	**97**	0.095 U
W-13S	Extraction	9/26/2018	0.067 U	0.11 U	0.048 U	0.38 U	1.9 U	0.11 U	0.090 U	0.048 U	0.24 U	0.096 U	0.26 U	0.096 U	0.96 U	**8.5**	**0.16 J**
W-13I	Extraction	9/26/2018	0.066 U	0.10 U	0.047 U	0.38 U	1.9 U	0.10 U	0.089 U	0.047 U	0.24 U	0.095 U	0.26 U	0.095 U	0.95 U	**370**	0.095 U
W-17AS	Off-Site	9/26/2018	0.067 U	0.10 U	0.048 U	0.38 U	1.9 U	0.10 U	0.090 U	0.048 U	0.24 U	0.095 U	0.26 U	0.095 U	0.95 U	0.76 U	0.095 U
W-17AI	Off-Site	9/26/2018	0.066 U	0.10 U	0.047 U	0.38 U	1.9 U	0.10 U	0.089 U	0.047 U	0.24 U	0.095 U	0.26 U	0.095 U	0.95 U	0.76 U	0.095 U
W-20I	Extraction	9/26/2018	0.067 U	0.10 U	0.048 U	0.38 U	1.9 U	0.10 U	0.089 U	0.048 U	0.24 U	0.095 U	0.26 U	0.095 U	0.95 U	**18**	0.095 U
W-20I (Blind)	Extraction	9/26/2018	0.067 U	0.11 U	0.048 U	0.39 U	1.9 U	0.11 U	0.091 U	0.048 U	0.24 U	0.096 U	0.26 U	0.096 U	0.96 U	**14**	0.096 U
W-23	On-Site	9/27/2018	0.066 U	0.10 U	0.047 U	0.38 U	1.9 U	0.10 U	0.089 U	0.047 U	0.24 U	0.095 U	0.26 U	0.095 U	0.95 U	0.76 U	0.095 U
W-24	Off-Site	9/26/2018	0.066 U	0.10 U	0.047 U	0.38 U	1.9 U	0.10 U	0.089 U	0.047 U	0.24 U	0.095 U	0.26 U	0.095 U	0.95 U	**3**	0.095 U
W-25	Off-Site	9/26/2018	0.066 U	0.10 U	0.047 U	0.38 U	1.9 U	0.10 U	0.089 U	0.047 U	0.24 U	0.095 U	0.26 U	0.095 U	0.95 U	**13**	0.095 U
W-26	Off-Site	9/26/2018	0.066 U	0.10 U	0.047 U	0.38 U	1.9 U	0.10 U	0.089 U	0.047 U	0.24 U	0.095 U	0.26 U	0.095 U	0.95 U	**32**	0.095 U
W-29	Off-Site	9/26/2018	0.067 U	0.10 U	0.048 U	0.38 U	1.9 U	0.10 U	0.089 U	0.048 U	0.24 U	0.095 U	0.26 U	0.095 U	0.95 U	**4.3**	0.095 U
W-32	Off-Site	9/26/2018	0.066 U	0.10 U	0.047 U	0.38 U	1.9 U	0.10 U	0.089 U	0.047 U	0.24 U	0.095 U	0.26 U	0.095 U	0.95 U	**2.30**	0.095 U
Zip-O-Log	Off-Site	9/26/2018	0.066 U	0.10 U	0.047 U	0.38 U	2.0 U	0.10 U	0.089 U	0.047 U	0.24 U	0.095 U	0.26 U	0.095 U	0.95 U	0.76 U	0.095 U
Equipment Rinsate Blank	--	9/27/2018	0.066 U	0.10 U	0.047 U	0.38 U	1.9 U	0.10 U	0.089 U	0.047 U	0.24 U	0.095 U	0.26 U	0.095 U	0.95 U	0.76 U	0.095 U

Notes

[1] Analysis by EPA method 8270C Low Levels.

µg/L = micrograms per liter.

Blind = duplicate sample

J = Result is an estimated concentration that is less than the method reporting limit, but greater than or equal to the method detection limit.

U = Analyte was not detected above the sample method detection limit.

Table 3. Groundwater Extraction System Summary

J.H. Baxter Wood Treating Facility

Eugene, Oregon

Observation Period	Well W-20I								
	Pumping Information			Average Concentrations[1,2,3]			Estimated Mass Extracted[4]		
	Days Pumping	Rate[5]	Volume	PCP	PAHs	Metals	PCP	PAHs	Metals
	(days)	(gpm)	(gallons)	(µg/L)	(µg/L)	(µg/L)	(pounds)	(pounds)	(pounds)
01-Jan-94 to 02-Dec-98	1,783	20 - 30	61,012,800	361	27	0.00	19.57	0.86	0.00
03-Dec-98 to 23-Feb-99	83	25	2,988,000	74	0.43	0.00	1.84	0.01	0.00
24-Feb-99 to 03-Mar-99	8	35	403,200	74	0.43	0.00	0.25	0.00	0.00
04-Mar-99 to 02-Jun-99	92	35	4,636,800	80	0.43	0.00	3.09	0.02	0.00
02-Jun-99 to 15-Dec-99	181	35	9,122,400	97	0.00	0.00	7.39	0.00	0.00
30-Nov-99 to 13-Mar-00	104	35	5,241,600	87	0.00	0.00	3.80	0.00	0.00
13-Mar-00 to 10-Jul-00	119	35	5,997,600	87	0.00	0.00	4.34	0.00	0.00
11-Jul-00 to 30-Sept-00	82	35	4,132,800	97	0.00	0.00	3.36	0.00	0.00
01-Oct-00 to 31-Jan-01	123	35	6,199,200	98	0.00	0.00	5.05	0.00	0.00
01-Feb-01 to 30-Jun-01	150	35	7,560,000	103	0.00	0.00	6.49	0.00	0.00
01-Jul-01 to 31-Dec-01	184	35	9,273,600	104	0.00	0.00	8.01	0.00	0.00
01-Jan-02 to 30-Jun-02	151	35	7,610,400	106	0.00	0.00	6.70	0.00	0.00
01-July-02 to 31-Dec-02	183	35	9,223,200	111	0.00	0.00	8.51	0.00	0.00
01-Jan-03 to 30-Jun-03	134	35	6,753,600	100	0.00	0.00	5.66	0.00	0.00
01-July-03 to 31-Dec-03	184	35	9,273,600	135	0.00	0.00	10.41	0.00	0.00
01-Jan-04 to 30-Jun-04	180	35	9,072,000	108	0.00	0.00	8.14	0.00	0.00
01-July-04 to 31-Dec-04	155	35	7,812,000	185	0.00	0.00	12.03	0.00	0.00
01-Jan-05 to 30-Jun-05	181	35	9,122,400	196	0.00	0.00	14.92	0.00	0.00
01-July-05 to 31-Dec-05	152	35	7,660,800	117	0.00	0.00	7.45	0.00	0.00
01-Jan-06 to 30-Jun-06	176	35	8,870,400	95	0.00	0.00	7.02	0.00	0.00
01-July-06 to 31-Dec-06	184	35	9,273,600	96	0.00	0.00	7.39	0.00	0.00
01-Jan-07 to 30-Jun-07	181	35	9,122,400	83	0.00	0.00	6.31	0.00	0.00
01-July-07 to 31-Dec-07	183	35	9,223,200	78	0.00	0.00	5.98	0.00	0.00
01-Jan-08 to 30-Jun-08	180	35	9,072,000	83	0.00	0.00	6.25	0.00	0.00
01-July-08 to 31-Dec-08	177	35	8,920,800	83	0.00	0.00	6.14	0.00	0.00
01-Jan-09 to 30-Jun-09	180	35	9,072,000	47	0.00	0.00	3.53	0.00	0.00
01-July-09 to 31-Dec-09	180	35	9,072,000	49	0.95	0.00	3.74	0.07	0.00
01-Jan-10 to 30-Jun-10	181	35	9,122,400	43	0.00	0.00	3.30	0.00	0.00
01-July-10 to 31-Dec-10	181	35	9,122,400	61	0.00	0.00	4.65	0.00	0.00
01-Jan-11 to 30-Jun-11	181	35	9,122,400	115	0.00	3.65	8.75	0.00	0.28
01-July-11 to 31-Dec-11	184	35	9,273,600	44	0.00	1.57	3.41	0.00	0.12
01-Jan-12 to 30-Jun-12	163	35	8,215,200	47	0.19	0.60	3.24	0.01	0.04
01-July-12 to 31-Dec-12	183	35	9,223,200	47	0.00	0.00	3.58	0.00	0.00
01-Jan-13 to 30-Jun-13	176	35	8,870,400	24	0.00	2.11	1.78	0.00	0.16
01-July-13 to 31-Dec-13	184	35	9,273,600	37	0.00	0.36	2.89	0.00	0.03
01-Jan-14 to 30-Jun-14	181	35	9,122,400	33	0.09	2.55	2.47	0.01	0.19
01-July-14 to 31-Dec-14	183	35	9,223,200	11	0.00	2.61	0.85	0.00	0.20
01-Jan-15 to 30-Jun-15	180	35	9,072,000	47	0.00	0.55	3.56	0.00	0.04
01-Jul-15 to 31-Dec-15	183	35	9,223,200	28	--	--	2.16	--	--
01-Jan-16 to 30-Jun-16	180	35	9,072,000	28	--	--	2.12	--	--
01-Jul-16 to 31-Dec-16	183	35	9,223,200	19	--	--	1.46	--	--
01-Jan-17 to 30-Jun-17	180	35	9,072,000	19	--	--	1.44	--	--
01-Jul-17 to 31-Dec-17	183	35	9,223,200	25	--	--	1.92	--	--
01-Jan-18 to 30-Jun-18	180	35	9,072,000	25	--	--	1.89	--	--
01-Jul-18 to 31-Dec-18	184	35	9,273,600	16	--	--	1.24	--	--
Cumulative Amounts	--	--	419,522,400	--	--	--	234.08	0.98	1.06

Table 3. Groundwater Extraction System Summary

J.H. Baxter Wood Treating Facility

Eugene, Oregon

Observation Period	Well W-13S								
	Pumping Information			Average Concentrations[1,2,3]			Estimated Mass Extracted[4]		
	Days Pumping	Rate[5]	Volume	PCP	PAHs	Metals	PCP	PAHs	Metals
	(days)	(gpm)	(gallons)	(µg/L)	(µg/L)	(µg/L)	(pounds)	(pounds)	(pounds)
01-Jan-94 to 02-Dec-98	1,783	5	12,837,600	25,175	35	0.00	321.36	1.21	0.00
03-Dec-98 to 23-Feb-99	83	5	597,600	4,170	0.00	0.00	20.85	0.00	0.00
24-Feb-99 to 03-Mar-99	8	5	57,600	4,170	0.00	0.00	2.01	0.00	0.00
04-Mar-99 to 02-Jun-99	92	5	662,400	4,105	0.00	0.00	22.75	0.00	0.00
02-Jun-99 to 15-Dec-99	181	5	1,303,200	3,260	0.00	0.00	35.54	0.00	0.00
30-Nov-99 to 13-Mar-00	104	5	748,800	2,485	0.00	0.00	15.57	0.00	0.00
13-Mar-00 to 10-Jul-00	119	5	856,800	1,880	0.00	0.00	13.47	0.00	0.00
11-Jul-00 to 30-Sept-00	82	5	590,400	1,560	9.7	0.00	7.69	0.05	0.00
01-Oct-00 to 31-Jan-01	123	5	885,600	1,590	1.9	0.00	11.75	0.01	0.00
01-Feb-01 to 30-Jun-01	150	5	1,080,000	1,481	1.4	0.00	13.35	0.01	0.00
01-Jul-01 to 31-Dec-01	184	5	1,324,800	1,379	4.1	0.00	15.25	0.05	0.00
01-Jan-02 to 30-Jun-02	151	5	1,087,200	1,455	1.2	0.00	13.20	0.01	0.00
01-July-02 to 31-Dec-02	183	5	1,317,600	1,435	0.30	0.00	15.78	0.00	0.00
01-Jan-03 to 30-Jun-03	134	5	964,800	1,235	1.2	0.00	9.94	0.01	0.00
01-July-03 to 31-Dec-03	184	5	1,324,800	235	0.17	0.00	2.60	0.00	0.00
01-Jan-04 to 30-Jun-04	180	5	1,296,000	541	0.62	0.00	5.85	0.01	0.00
01-July-04 to 31-Dec-04	155	5	1,116,000	1,018	0.42	0.00	9.48	0.00	0.00
01-Jan-05 to 30-Jun-05	181	5	1,303,200	2,070	2.1	0.00	22.51	0.02	0.00
01-July-05 to 31-Dec-05	152	5	1,094,400	1,730	0.52	0.00	15.80	0.00	0.00
01-Jan-06 to 30-Jun-06	176	5	1,267,200	1,034	0.36	0.00	10.93	0.00	0.00
01-July-06 to 31-Dec-06	184	5	1,324,800	902	0.18	0.00	9.97	0.00	0.00
01-Jan-07 to 30-Jun-07	181	5	1,303,200	729	0.13	0.00	7.92	0.00	0.00
01-July-07 to 31-Dec-07	183	5	1,317,600	78	0.13	0.00	0.86	0.00	0.00
01-Jan-08 to 30-Jun-08	180	5	1,296,000	127	0.11	0.00	1.38	0.00	0.00
01-July-08 to 31-Dec-08	177	5	1,274,400	127	0.11	0.00	1.35	0.00	0.00
01-Jan-09 to 30-Jun-09	180	5	1,296,000	1.36	0.00	0.00	0.01	0.00	0.00
01-July-09 to 31-Dec-09	180	5	1,296,000	43	0.06	165.5	0.46	0.00	1.79
01-Jan-10 to 30-Jun-10	181	5	1,303,200	93	0.00	0.00	1.01	0.00	0.00
01-July-10 to 31-Dec-10	181	5	1,303,200	59	0.00	0.00	0.65	0.00	0.00
01-Jan-11 to 30-Jun-11	181	5	1,303,200	455	0.05	3.10	4.94	0.00	0.03
01-July-11 to 31-Dec-11	184	5	1,324,800	180	0.00	7.70	1.99	0.00	0.09
01-Jan-12 to 30-Jun-12	163	5	1,173,600	590	0.54	3.61	5.78	0.01	0.04
01-July-12 to 31-Dec-12	183	5	1,317,600	428	0.08	4.28	4.70	0.00	0.05
01-Jan-13 to 30-Jun-13	176	5	1,267,200	1,400	0.44	4.95	14.81	0.00	0.05
01-July-13 to 31-Dec-13	184	5	1,324,800	515	1.1	4.63	5.69	0.01	0.05
01-Jan-14 to 30-Jun-14	181	5	1,303,200	168	0.10	3.55	1.82	0.00	0.04
01-July-14 to 31-Dec-14	183	5	1,317,600	85	0.00	2.81	0.93	0.00	0.03
01-Jan-15 to 30-Jun-15	180	5	1,296,000	20	0.00	7.9	0.21	0.00	0.09
01-July-15 to 31-Dec-15	183	5	1,317,600	2.7	--	--	0.03	--	--
01-Jan-16 to 30-Jun-16	180	5	1,296,000	2.7	--	--	0.03	--	--
01-Jul-16 to 31-Dec-16	183	5	1,317,600	4.8	--	--	0.05	--	--
01-Jan-17 to 30-Jun-17	180	5	1,296,000	4.8	--	--	0.05	--	--
01-Jul-17 to 31-Dec-17	183	5	1,317,600	8	--	--	0.09	--	--
01-Jan-18 to 30-Jun-18	180	5	1,296,000	8	--	--	0.09	--	--
01-Jul-18 to 31-Dec-18	184	5	1,324,800	8.5	--	--	0.09	--	--
Cumulative Amounts	--	--	64,224,000	--	--	--	650.60	1.43	2.26

Table 3. Groundwater Extraction System Summary

J.H. Baxter Wood Treating Facility

Eugene, Oregon

Observation Period	Well W-13I								
	Pumping Information			Average Concentrations[1,2,3]			Estimated Mass Extracted[4]		
	Days Pumping	Rate[5]	Volume	PCP	PAHs	Metals	PCP	PAHs	Metals
	(days)	(gpm)	(gallons)	(µg/L)	(µg/L)	(µg/L)	(pounds)	(pounds)	(pounds)
01-Jan-94 to 02-Dec-98	1,783	10 - 15	32,522,400	3,196	35	0.00	124.69	1.44	0.00
03-Dec-98 to 23-Feb-99	83	10	1,195,200	590	0.00	0.00	5.90	0.00	0.00
24-Feb-99 to 03-Mar-99	8	10	115,200	590	0.00	0.00	0.57	0.00	0.00
04-Mar-99 to 02-Jun-99	92	10	1,324,800	640	0.00	0.00	7.09	0.00	0.00
02-Jun-99 to 15-Dec-99	181	10	2,606,400	876	0.00	0.00	19.10	0.00	0.00
30-Nov-99 to 13-Mar-00	104	10	1,497,600	823	0.00	0.00	10.30	0.00	0.00
13-Mar-00 to 10-Jul-00	119	10	1,713,600	785	0.95	0.00	11.25	0.01	0.00
11-Jul-00 to 30-Sept-00	82	10	1,180,800	803	9.6	0.00	7.91	0.09	0.00
01-Oct-00 to 31-Jan-01	123	10	1,771,200	747	1.8	0.00	11.04	0.03	0.00
01-Feb-01 to 30-Jun-01	150	10	2,160,000	778	1.4	0.00	14.02	0.02	0.00
01-Jul-01 to 31-Dec-01	184	10	2,649,600	887	1.2	0.00	19.61	0.03	0.00
01-Jan-02 to 30-Jun-02	151	10	2,174,400	672	0.55	0.00	12.19	0.01	0.00
01-July-02 to 31-Dec-02	183	10	2,635,200	1,025	0.85	0.00	22.54	0.02	0.00
01-Jan-03 to 30-Jun-03	134	10	1,929,600	829	0.80	0.00	13.35	0.01	0.00
01-July-03 to 31-Dec-03	184	10	2,649,600	883	1.2	0.00	19.51	0.03	0.00
01-Jan-04 to 30-Jun-04	180	10	2,592,000	859	1.2	0.00	18.59	0.03	0.00
01-July-04 to 31-Dec-04	155	10	2,232,000	1,260	1.3	0.00	23.47	0.02	0.00
01-Jan-05 to 30-Jun-05	181	10	2,606,400	942	1.4	0.00	20.48	0.03	0.00
01-July-05 to 31-Dec-05	152	10	2,188,800	970	1.3	0.00	17.72	0.02	0.00
01-Jan-06 to 30-Jun-06	176	10	2,534,400	897	0.88	0.00	18.97	0.02	0.00
01-July-06 to 31-Dec-06	184	10	2,649,600	865	0.43	0.00	19.13	0.01	0.00
01-Jan-07 to 30-Jun-07	181	10	2,606,400	857	0.63	0.00	18.64	0.01	0.00
01-July-07 to 31-Dec-07	183	10	2,635,200	623	1.5	0.00	13.70	0.03	0.00
01-Jan-08 to 30-Jun-08	180	10	2,592,000	866	0.53	0.00	18.73	0.01	0.00
01-July-08 to 31-Dec-08	177	10	2,548,800	866	0.53	0.00	18.41	0.01	0.00
01-Jan-09 to 30-Jun-09	180	10	2,592,000	729	0.32	0.00	15.77	0.01	0.00
01-July-09 to 31-Dec-09	180	10	2,592,000	805	0.95	0.00	17.42	0.02	0.00
01-Jan-10 to 30-Jun-10	181	10	2,606,400	639	0.68	0.00	13.90	0.01	0.00
01-July-10 to 31-Dec-10	181	10	2,606,400	754	0.33	0.00	16.40	0.01	0.00
01-Jan-11 to 30-Jun-11	181	10	2,606,400	1,298	0.30	2.45	28.22	0.01	0.05
01-July-11 to 31-Dec-11	184	10	2,649,600	980	0.50	1.18	21.67	0.01	0.03
01-Jan-12 to 30-Jun-12	163	10	2,347,200	700	0.40	2.73	13.71	0.01	0.05
01-July-12 to 31-Dec-12	183	10	2,635,200	830	1.1	1.56	18.25	0.02	0.03
01-Jan-13 to 30-Jun-13	176	10	2,534,400	1,050	1.1	2.55	22.21	0.02	0.05
01-July-13 to 31-Dec-13	184	10	2,649,600	970	1.2	0.28	21.45	0.03	0.01
01-Jan-14 to 30-Jun-14	181	10	2,606,400	533	0.29	1.95	11.58	0.01	0.04
01-July-14 to 31-Dec-14	183	10	2,635,200	563	0.20	0.26	12.37	0.00	0.01
01-Jan-15 to 30-Jun-15	180	10	2,592,000	385	0.20	0.00	8.33	0.00	0.00
01-Jul-15 to 31-Dec-15	183	10	2,635,200	490	--	--	10.78	--	--
01-Jan-16 to 30-Jun-16	181	10	2,606,400	490	--	--	10.66	--	--
01-Jul-16 to 31-Dec-16	183	10	2,635,200	350	--	--	7.70	--	--
01-Jan-17 to 30-Jun-17	181	10	2,606,400	350	--	--	7.61	--	--
01-Jul-17 to 31-Dec-17	183	10	2,635,200	350	--	--	7.70	--	--
01-Jan-18 to 30-Jun-18	181	10	2,606,400	350	--	--	7.61	--	--
01-Jul-18 to 31-Dec-18	184	10	2,649,600	370	--	--	8.18	--	--
Cumulative Amounts	--	--	135,338,400	--	--	--	768.42	2.06	0.28
TOTALS	--	--	**619,084,800**	--	--	--	**1,653.10**	**4.47**	**3.59**

Table 3. Groundwater Extraction System Summary

J.H. Baxter Wood Treating Facility

Eugene, Oregon

Notes

[1] Concentrations are averages of detected values from quarterly analytical results or from semi-annual sampling analytical results once quarterly sampling ended. For metals, the concentration is averageof the sum for each sampling event.

[2] Field duplicate values averaged with parent value before calculating the average concentration for the observation period.

[3] No value assigned to concentrations below the method reporting limit.

[4] Estimated mass calculated on the basis of corrected average concentrations.

[5] Flow rate estimated based upon pump capacity

-- = data not available or not applicable.

µg/L = micrograms per liter.

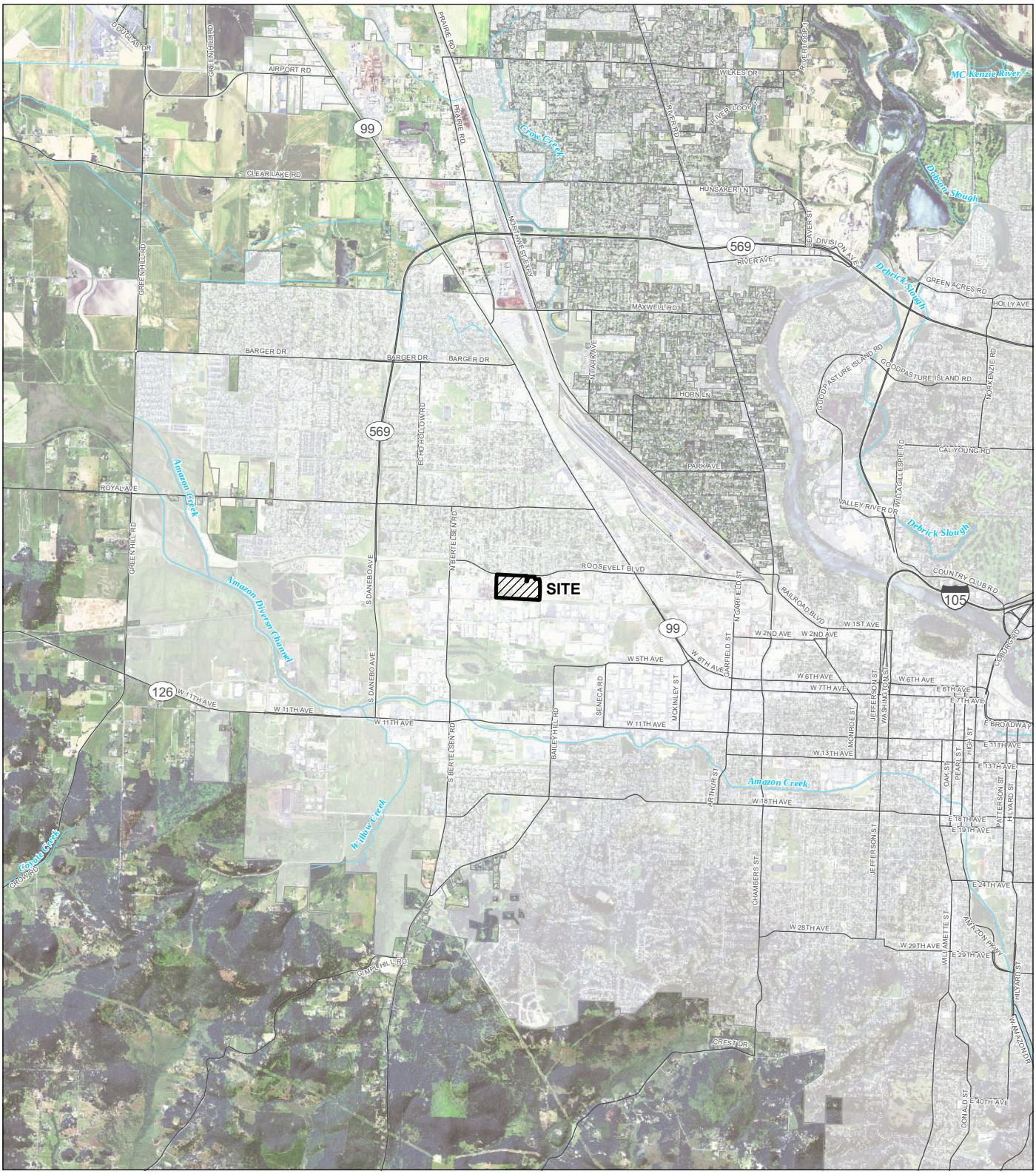
gpm = gallons per minute.

PCP = pentachlorophenol.

PAHs = polycyclic aromatic hydrocarbons.

Metals = total arsenic, total chromium, total copper, and total zinc.

Figures



LEGEND

- Eugene City Limits
- Major Roads
- Watercourses

MAP NOTES:
Date: July 25, 2016
Data Sources: Air photo taken on June 11, 2014 by the USDA

N

0 0.5 1
Miles

GSI Water Solutions, Inc.

FIGURE 1

Site Vicinity Map

J.H. Baxter Wood Treating Facility
Eugene, Oregon

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FIGURE 2

Site Detail Map

J.H. Baxter Wood Treating Facility
Eugene, Oregon

LEGEND

- Facility Boundary
- Union Pacific Railroad

N

0 100 200 300
Feet

MAP NOTES:
Date: July 25, 2016
Data Sources: AMEC, OGIC, ESRI, Air photo taken on June 6, 2014 by Google Earth

GSI Water Solutions, Inc.

Document Path: P:\Portland\302 - Baxter\GIS\Eugene\Project_mxds\2016_1h_Report\Figure2_Site_Detail_Map.mxd

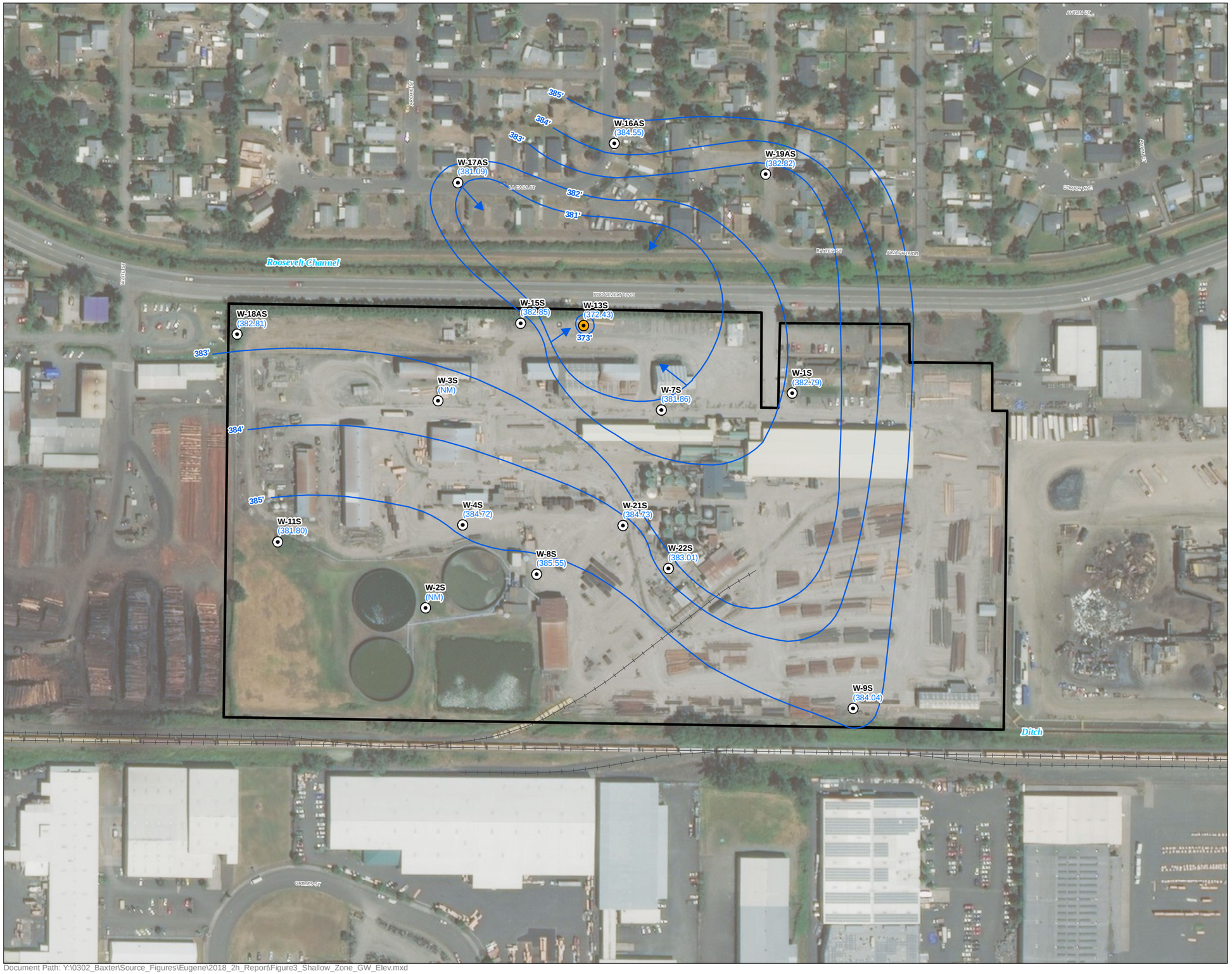

FIGURE 3

Shallow Zone Groundwater Elevation, Second Half 2018

J.H. Baxter Wood Treating Facility
Eugene, Oregon

LEGEND

- Shallow Zone Monitoring Well (September 2018 Groundwater Elevation)
- Shallow Zone Extraction Well (September 2018 Groundwater Elevation)
- Groundwater Elevation Contours (dashed where inferred)
- Facility Boundary
- Union Pacific Railroad

NOTE:
*Suspect field measurement at W-15S.
Not used for contouring.
NM = Not Measured

N

0 100 200 300
Feet

Date: February 25, 2019
Data Sources: AMEC, OGIC, ESRI, 2017 DigiGlobe

GSI Water Solutions, Inc.

Document Path: Y:\0302_Baxter\Source_Figures\Eugene\2018_2h_Report\Figure3_Shallow_Zone_GW_Elev.mxd

FIGURE 4

Intermediate Zone Groundwater Elevation, Second Half 2018

J.H. Baxter Wood Treating Facility
Eugene, Oregon

LEGEND

- Intermediate Zone Monitoring Well (September 2018 Groundwater Elevation)
- Intermediate Zone Extraction Well (September 2018 Groundwater Elevation)
- Groundwater Elevation Contours (dashed where inferred)
- Facility Boundary
- Union Pacific Railroad

NOTE:
NM = Not Measured

N

0 175 350 525
Feet

Date: February 25, 2019
Data Sources: AMEC, OGIC, ESRI, 2017 DigiGlobe

GSI Water Solutions, Inc.

Document Path: Y:\0302_Baxter\Source_Figures\Eugene\2018_2h_Report\Figure4_Intermediate_Zone_GW_Elev.mxd

FIGURE 5

Pentachlorophenol in Groundwater, Second Half 2018

J.H. Baxter Wood Treating Facility
Eugene, Oregon

LEGEND

- Monitoring Well
- Extraction Well
- Facility Boundary
- Union Pacific Railroad

NOTES:

1. Results in µg/L (microgram per liter).
2. Samples taken September 18th and 19th, 2017
5. Abbreviations:

J	Estimated
U	Not-Detected
NM	Not Measured

N

0 175 350 525
Feet

Date: February 1, 2019
Data Sources: AMEC, OGIC, ESRI, Air photo taken on June 6, 2014 by Google Earth

GSI Water Solutions, Inc.

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Appendix A

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-114941-1
Client Project/Site: Eugene, OR Facility

For:
J. H. Baxter & Co.
PO BOX 5902
San Mateo, California 94402

Attn: Georgia Baxter

Authorized for release by:
10/12/2018 4:46:31 PM

Jamie Ide, Project Manager I
(303)736-0126
jamie.ide@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Definitions/Glossary

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-114941-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 280-114941-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE
Client: J. H. Baxter & Co.
Project: Eugene, OR Facility
Report Number: 280-114941-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 9/29/2018 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.7º C, 1.1º C, 1.1º C and 1.2º C.

The container labels for the following samples did not match the information listed on the Chain-of-Custody (COC): 6 I (280-114941-1), 7-S (280-114941-2), 17-AS (280-114941-7) and 17-AI (280-114941-8). The container labels list "W17-AS, W-6I, W-7S, and W-17AI", while the COC lists "17-AS, 6 I, 7-S, and 17-AI". The samples were logged per the IDs listed on the COC. The client was notified on 10/1/18. Per client confirmation on 10/1/18, the samples were logged correctly.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples 6 I (280-114941-1), 7-S (280-114941-2), 11-S (280-114941-3), 11-I (280-114941-4), 12-I (280-114941-5), W-23 (280-114941-6), 17-AS (280-114941-7), 17-AI (280-114941-8), W-24 (280-114941-9), W-25 (280-114941-10), W-26 (280-114941-11), W-29 (280-114941-12), W-32 (280-114941-13), ZIPPO (280-114941-14), 13-S (280-114941-15), 13-I (280-114941-16), 20-I (280-114941-17), BLIND (280-114941-18) and EQUIPMENT CHECK (280-114941-19) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 10/02/2018 and analyzed on 10/05/2018, 10/06/2018 and 10/09/2018.

The reporting limit provided for some analytes are below the laboratory's lowest calibration standard. Results reported below the lowest calibration standard are provided with less certainty and are considered estimated values as they are below the laboratory's standard RL, and above the laboratory's MDL.

2-Fluorophenol (Surr) and Phenol-d5 (Surr) failed the surrogate recovery criteria low for 11-S (280-114941-3). Matrix interference is present.

2-Fluorophenol (Surr) and Phenol-d5 (Surr) failed the surrogate recovery criteria low for W-32 (280-114941-13). Terphenyl-d14 (Surr) failed the surrogate recovery criteria low for BLIND (280-114941-18). Matrix interference was not obvious; the client was notified and instructed the laboratory to report data with narration.

2-Fluorophenol (Surr) and Phenol-d5 (Surr) failed the surrogate recovery criteria low for 13-I (280-114941-16), and 7-S (280-114941-2). In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required. The surrogate recoveries are calculated from diluted samples and in some cases are diluted below reportable limits. Refer to the QC report for details.

2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,6-Dichlorophenol, 2-Chlorophenol, 2-Nitrophenol, 4-Nitrophenol and Phenol failed the recovery criteria low for LCS 280-431800/2-A. Several analytes exceeded the RPD limit for LCSD 280-431800/3-A. 2-Fluorophenol (Surr) and Phenol-d5 (Surr) failed the surrogate recovery criteria low for LCS 280-431800/2-A. 2-Fluorobiphenyl failed the surrogate recovery criteria high.
The client was notified and instructed the laboratory to report data with narration. Refer to the QC report for details.

Job ID: 280-114941-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

Samples 7-S (280-114941-2)[40X], 12-I (280-114941-5)[4X] and 13-I (280-114941-16)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-114941-1

Client Sample ID: 6 I — Lab Sample ID: 280-114941-1

No Detections.

Client Sample ID: 7-S — Lab Sample ID: 280-114941-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4,6-Trichlorophenol	0.00097	J *	0.0047	0.00010	mg/L	1		8270C LL	Total/NA
2,4-Dichlorophenol	0.0024	J *	0.0047	0.000047	mg/L	1		8270C LL	Total/NA
2,4-Dimethylphenol	0.0043	J	0.0047	0.00038	mg/L	1		8270C LL	Total/NA
2-Chlorophenol	0.00050	J *	0.0047	0.000089	mg/L	1		8270C LL	Total/NA
2-Methylphenol	0.0021	J	0.0047	0.000047	mg/L	1		8270C LL	Total/NA
3 & 4 Methylphenol	0.0020	J *	0.0047	0.000095	mg/L	1		8270C LL	Total/NA
Phenol	0.00086	J *	0.0095	0.000095	mg/L	1		8270C LL	Total/NA
4-Methylphenol	0.0020	J *	0.0047	0.000095	mg/L	1		8270C LL	Total/NA
Pentachlorophenol - DL	1.8	*	0.076	0.030	mg/L	40		8270C LL	Total/NA

Client Sample ID: 11-S — Lab Sample ID: 280-114941-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenol	0.00031	J *	0.0095	0.000095	mg/L	1		8270C LL	Total/NA

Client Sample ID: 11-I — Lab Sample ID: 280-114941-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.0020	*	0.0019	0.00076	mg/L	1		8270C LL	Total/NA
Phenol	0.00016	J *	0.0095	0.000095	mg/L	1		8270C LL	Total/NA

Client Sample ID: 12-I — Lab Sample ID: 280-114941-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol - DL	0.097	*	0.0076	0.0030	mg/L	4		8270C LL	Total/NA

Client Sample ID: W-23 — Lab Sample ID: 280-114941-6

No Detections.

Client Sample ID: 17-AS — Lab Sample ID: 280-114941-7

No Detections.

Client Sample ID: 17-AI — Lab Sample ID: 280-114941-8

No Detections.

Client Sample ID: W-24 — Lab Sample ID: 280-114941-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.0030	*	0.0019	0.00076	mg/L	1		8270C LL	Total/NA

Client Sample ID: W-25 — Lab Sample ID: 280-114941-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.013	*	0.0019	0.00076	mg/L	1		8270C LL	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-114941-1

Client Sample ID: W-26 — Lab Sample ID: 280-114941-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.032	*	0.0019	0.00076	mg/L	1		8270C LL	Total/NA

Client Sample ID: W-29 — Lab Sample ID: 280-114941-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.0043	*	0.0019	0.00076	mg/L	1		8270C LL	Total/NA

Client Sample ID: W-32 — Lab Sample ID: 280-114941-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.0023	*	0.0019	0.00076	mg/L	1		8270C LL	Total/NA

Client Sample ID: ZIPPO — Lab Sample ID: 280-114941-14

No Detections.

Client Sample ID: 13-S — Lab Sample ID: 280-114941-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.0085	*	0.0019	0.00077	mg/L	1		8270C LL	Total/NA
Phenol	0.00016	J *	0.0096	0.000096	mg/L	1		8270C LL	Total/NA

Client Sample ID: 13-I — Lab Sample ID: 280-114941-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol - DL	0.37	*	0.019	0.0076	mg/L	10		8270C LL	Total/NA

Client Sample ID: 20-I — Lab Sample ID: 280-114941-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.018	*	0.0019	0.00076	mg/L	1		8270C LL	Total/NA

Client Sample ID: BLIND — Lab Sample ID: 280-114941-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.014	*	0.0019	0.00077	mg/L	1		8270C LL	Total/NA

Client Sample ID: EQUIPMENT CHECK — Lab Sample ID: 280-114941-19

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-114941-1

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL DEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-114941-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-114941-1	6 I	Water	09/27/18 14:11	09/29/18 08:50
280-114941-2	7-S	Water	09/27/18 14:42	09/29/18 08:50
280-114941-3	11-S	Water	09/27/18 10:35	09/29/18 08:50
280-114941-4	11-I	Water	09/27/18 11:00	09/29/18 08:50
280-114941-5	12-I	Water	09/27/18 08:58	09/29/18 08:50
280-114941-6	W-23	Water	09/27/18 09:27	09/29/18 08:50
280-114941-7	17-AS	Water	09/26/18 10:25	09/29/18 08:50
280-114941-8	17-AI	Water	09/26/18 10:01	09/29/18 08:50
280-114941-9	W-24	Water	09/26/18 11:00	09/29/18 08:50
280-114941-10	W-25	Water	09/26/18 14:31	09/29/18 08:50
280-114941-11	W-26	Water	09/26/18 13:55	09/29/18 08:50
280-114941-12	W-29	Water	09/26/18 13:29	09/29/18 08:50
280-114941-13	W-32	Water	09/26/18 11:37	09/29/18 08:50
280-114941-14	ZIPPO	Water	09/26/18 14:00	09/29/18 08:50
280-114941-15	13-S	Water	09/26/18 15:35	09/29/18 08:50
280-114941-16	13-I	Water	09/26/18 15:55	09/29/18 08:50
280-114941-17	20-I	Water	09/26/18 16:13	09/29/18 08:50
280-114941-18	BLIND	Water	09/26/18 17:00	09/29/18 08:50
280-114941-19	EQUIPMENT CHECK	Water	09/27/18 15:00	09/29/18 08:50

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Client Sample ID: 6 I
Date Collected: 09/27/18 14:11
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND	*	0.0047	0.000066	mg/L		10/02/18 18:34	10/05/18 20:50	1
2,4,6-Trichlorophenol	ND	*	0.0047	0.00010	mg/L		10/02/18 18:34	10/05/18 20:50	1
2,4-Dichlorophenol	ND	*	0.0047	0.000047	mg/L		10/02/18 18:34	10/05/18 20:50	1
2,4-Dimethylphenol	ND		0.0047	0.00038	mg/L		10/02/18 18:34	10/05/18 20:50	1
2,4-Dinitrophenol	ND	*	0.019	0.0019	mg/L		10/02/18 18:34	10/05/18 20:50	1
2,6-Dichlorophenol	ND	*	0.00047	0.00010	mg/L		10/02/18 18:34	10/05/18 20:50	1
2-Chlorophenol	ND	*	0.0047	0.000089	mg/L		10/02/18 18:34	10/05/18 20:50	1
2-Methylphenol	ND		0.0047	0.000047	mg/L		10/02/18 18:34	10/05/18 20:50	1
2-Nitrophenol	ND	*	0.0047	0.00024	mg/L		10/02/18 18:34	10/05/18 20:50	1
3 & 4 Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/05/18 20:50	1
4-Chloro-3-methylphenol	ND	*	0.0047	0.00026	mg/L		10/02/18 18:34	10/05/18 20:50	1
4-Nitrophenol	ND	*	0.0047	0.00095	mg/L		10/02/18 18:34	10/05/18 20:50	1
Pentachlorophenol	ND	*	0.0019	0.00076	mg/L		10/02/18 18:34	10/05/18 20:50	1
Phenol	ND	*	0.0095	0.000095	mg/L		10/02/18 18:34	10/05/18 20:50	1
4-Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/05/18 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*80*		*24 - 143*	*10/02/18 18:34*	*10/05/18 20:50*	*1*
2-Fluorobiphenyl	*63*		*54 - 120*	*10/02/18 18:34*	*10/05/18 20:50*	*1*
2-Fluorophenol (Surr)	*69*		*45 - 121*	*10/02/18 18:34*	*10/05/18 20:50*	*1*
Phenol-d5 (Surr)	*66*		*40 - 126*	*10/02/18 18:34*	*10/05/18 20:50*	*1*
Terphenyl-d14 (Surr)	*81*		*70 - 125*	*10/02/18 18:34*	*10/05/18 20:50*	*1*
Nitrobenzene-d5 (Surr)	*71*		*48 - 123*	*10/02/18 18:34*	*10/05/18 20:50*	*1*

Client Sample ID: 7-S
Date Collected: 09/27/18 14:42
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND	*	0.0047	0.000066	mg/L		10/02/18 18:34	10/05/18 21:12	1
2,4,6-Trichlorophenol	**0.00097**	**J ***	0.0047	0.00010	mg/L		10/02/18 18:34	10/05/18 21:12	1
2,4-Dichlorophenol	**0.0024**	**J ***	0.0047	0.000047	mg/L		10/02/18 18:34	10/05/18 21:12	1
2,4-Dimethylphenol	**0.0043**	**J**	0.0047	0.00038	mg/L		10/02/18 18:34	10/05/18 21:12	1
2,4-Dinitrophenol	ND	*	0.019	0.0019	mg/L		10/02/18 18:34	10/05/18 21:12	1
2,6-Dichlorophenol	ND	*	0.00047	0.00010	mg/L		10/02/18 18:34	10/05/18 21:12	1
2-Chlorophenol	**0.00050**	**J ***	0.0047	0.000089	mg/L		10/02/18 18:34	10/05/18 21:12	1
2-Methylphenol	**0.0021**	**J**	0.0047	0.000047	mg/L		10/02/18 18:34	10/05/18 21:12	1
2-Nitrophenol	ND	*	0.0047	0.00024	mg/L		10/02/18 18:34	10/05/18 21:12	1
3 & 4 Methylphenol	**0.0020**	**J ***	0.0047	0.000095	mg/L		10/02/18 18:34	10/05/18 21:12	1
4-Chloro-3-methylphenol	ND	*	0.0047	0.00026	mg/L		10/02/18 18:34	10/05/18 21:12	1
4-Nitrophenol	ND	*	0.0047	0.00095	mg/L		10/02/18 18:34	10/05/18 21:12	1
Phenol	**0.00086**	**J ***	0.0095	0.000095	mg/L		10/02/18 18:34	10/05/18 21:12	1
4-Methylphenol	**0.0020**	**J ***	0.0047	0.000095	mg/L		10/02/18 18:34	10/05/18 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*24 - 143*	*10/02/18 18:34*	*10/05/18 21:12*	*1*
2-Fluorobiphenyl	*69*		*54 - 120*	*10/02/18 18:34*	*10/05/18 21:12*	*1*
2-Fluorophenol (Surr)	*80*		*45 - 121*	*10/02/18 18:34*	*10/05/18 21:12*	*1*
Phenol-d5 (Surr)	*80*		*40 - 126*	*10/02/18 18:34*	*10/05/18 21:12*	*1*
Terphenyl-d14 (Surr)	*82*		*70 - 125*	*10/02/18 18:34*	*10/05/18 21:12*	*1*
Nitrobenzene-d5 (Surr)	*80*		*48 - 123*	*10/02/18 18:34*	*10/05/18 21:12*	*1*

Client Sample ID: 11-S
Date Collected: 09/27/18 10:35
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND	*	0.0047	0.000066	mg/L		10/02/18 18:34	10/09/18 23:08	1
2,4,6-Trichlorophenol	ND	*	0.0047	0.00010	mg/L		10/02/18 18:34	10/09/18 23:08	1
2,4-Dichlorophenol	ND	*	0.0047	0.000047	mg/L		10/02/18 18:34	10/09/18 23:08	1
2,4-Dimethylphenol	ND		0.0047	0.00038	mg/L		10/02/18 18:34	10/09/18 23:08	1
2,4-Dinitrophenol	ND	*	0.019	0.0019	mg/L		10/02/18 18:34	10/09/18 23:08	1
2,6-Dichlorophenol	ND	*	0.00047	0.00010	mg/L		10/02/18 18:34	10/09/18 23:08	1
2-Chlorophenol	ND	*	0.0047	0.000089	mg/L		10/02/18 18:34	10/09/18 23:08	1
2-Methylphenol	ND		0.0047	0.000047	mg/L		10/02/18 18:34	10/09/18 23:08	1
2-Nitrophenol	ND	*	0.0047	0.00024	mg/L		10/02/18 18:34	10/09/18 23:08	1
3 & 4 Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/09/18 23:08	1
4-Chloro-3-methylphenol	ND	*	0.0047	0.00026	mg/L		10/02/18 18:34	10/09/18 23:08	1
4-Nitrophenol	ND	*	0.0047	0.00095	mg/L		10/02/18 18:34	10/09/18 23:08	1
Pentachlorophenol	ND	*	0.0019	0.00076	mg/L		10/02/18 18:34	10/09/18 23:08	1
Phenol	**0.00031**	**J ***	0.0095	0.000095	mg/L		10/02/18 18:34	10/09/18 23:08	1
4-Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/09/18 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*26*		*24 - 143*	*10/02/18 18:34*	*10/09/18 23:08*	*1*
2-Fluorobiphenyl	*74*		*54 - 120*	*10/02/18 18:34*	*10/09/18 23:08*	*1*
2-Fluorophenol (Surr)	*38*	*X*	*45 - 121*	*10/02/18 18:34*	*10/09/18 23:08*	*1*
Phenol-d5 (Surr)	*39*	*X*	*40 - 126*	*10/02/18 18:34*	*10/09/18 23:08*	*1*
Terphenyl-d14 (Surr)	*79*		*70 - 125*	*10/02/18 18:34*	*10/09/18 23:08*	*1*
Nitrobenzene-d5 (Surr)	*80*		*48 - 123*	*10/02/18 18:34*	*10/09/18 23:08*	*1*

Client Sample ID: 11-I
Date Collected: 09/27/18 11:00
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND	*	0.0047	0.000066	mg/L		10/02/18 18:34	10/05/18 21:54	1
2,4,6-Trichlorophenol	ND	*	0.0047	0.00010	mg/L		10/02/18 18:34	10/05/18 21:54	1
2,4-Dichlorophenol	ND	*	0.0047	0.000047	mg/L		10/02/18 18:34	10/05/18 21:54	1
2,4-Dimethylphenol	ND		0.0047	0.00038	mg/L		10/02/18 18:34	10/05/18 21:54	1
2,4-Dinitrophenol	ND	*	0.019	0.0019	mg/L		10/02/18 18:34	10/05/18 21:54	1
2,6-Dichlorophenol	ND	*	0.00047	0.00010	mg/L		10/02/18 18:34	10/05/18 21:54	1
2-Chlorophenol	ND	*	0.0047	0.000089	mg/L		10/02/18 18:34	10/05/18 21:54	1
2-Methylphenol	ND		0.0047	0.000047	mg/L		10/02/18 18:34	10/05/18 21:54	1
2-Nitrophenol	ND	*	0.0047	0.00024	mg/L		10/02/18 18:34	10/05/18 21:54	1
3 & 4 Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/05/18 21:54	1
4-Chloro-3-methylphenol	ND	*	0.0047	0.00026	mg/L		10/02/18 18:34	10/05/18 21:54	1
4-Nitrophenol	ND	*	0.0047	0.00095	mg/L		10/02/18 18:34	10/05/18 21:54	1
Pentachlorophenol	**0.0020**	****	0.0019	0.00076	mg/L		10/02/18 18:34	10/05/18 21:54	1
Phenol	**0.00016**	**J ***	0.0095	0.000095	mg/L		10/02/18 18:34	10/05/18 21:54	1
4-Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/05/18 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*24 - 143*	*10/02/18 18:34*	*10/05/18 21:54*	*1*
2-Fluorobiphenyl	*71*		*54 - 120*	*10/02/18 18:34*	*10/05/18 21:54*	*1*
2-Fluorophenol (Surr)	*67*		*45 - 121*	*10/02/18 18:34*	*10/05/18 21:54*	*1*
Phenol-d5 (Surr)	*67*		*40 - 126*	*10/02/18 18:34*	*10/05/18 21:54*	*1*
Terphenyl-d14 (Surr)	*88*		*70 - 125*	*10/02/18 18:34*	*10/05/18 21:54*	*1*
Nitrobenzene-d5 (Surr)	*72*		*48 - 123*	*10/02/18 18:34*	*10/05/18 21:54*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Client Sample ID: 12-I
Date Collected: 09/27/18 08:58
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND	*	0.0047	0.000066	mg/L		10/02/18 18:34	10/05/18 22:15	1
2,4,6-Trichlorophenol	ND	*	0.0047	0.00010	mg/L		10/02/18 18:34	10/05/18 22:15	1
2,4-Dichlorophenol	ND	*	0.0047	0.000047	mg/L		10/02/18 18:34	10/05/18 22:15	1
2,4-Dimethylphenol	ND		0.0047	0.00038	mg/L		10/02/18 18:34	10/05/18 22:15	1
2,4-Dinitrophenol	ND	*	0.019	0.0019	mg/L		10/02/18 18:34	10/05/18 22:15	1
2,6-Dichlorophenol	ND	*	0.00047	0.00010	mg/L		10/02/18 18:34	10/05/18 22:15	1
2-Chlorophenol	ND	*	0.0047	0.000089	mg/L		10/02/18 18:34	10/05/18 22:15	1
2-Methylphenol	ND		0.0047	0.000047	mg/L		10/02/18 18:34	10/05/18 22:15	1
2-Nitrophenol	ND	*	0.0047	0.00024	mg/L		10/02/18 18:34	10/05/18 22:15	1
3 & 4 Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/05/18 22:15	1
4-Chloro-3-methylphenol	ND	*	0.0047	0.00026	mg/L		10/02/18 18:34	10/05/18 22:15	1
4-Nitrophenol	ND	*	0.0047	0.00095	mg/L		10/02/18 18:34	10/05/18 22:15	1
Phenol	ND	*	0.0095	0.000095	mg/L		10/02/18 18:34	10/05/18 22:15	1
4-Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/05/18 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*24 - 143*	*10/02/18 18:34*	*10/05/18 22:15*	*1*
2-Fluorobiphenyl	*75*		*54 - 120*	*10/02/18 18:34*	*10/05/18 22:15*	*1*
2-Fluorophenol (Surr)	*72*		*45 - 121*	*10/02/18 18:34*	*10/05/18 22:15*	*1*
Phenol-d5 (Surr)	*80*		*40 - 126*	*10/02/18 18:34*	*10/05/18 22:15*	*1*
Terphenyl-d14 (Surr)	*81*		*70 - 125*	*10/02/18 18:34*	*10/05/18 22:15*	*1*
Nitrobenzene-d5 (Surr)	*79*		*48 - 123*	*10/02/18 18:34*	*10/05/18 22:15*	*1*

Client Sample ID: W-23
Date Collected: 09/27/18 09:27
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND	*	0.0047	0.000066	mg/L		10/02/18 18:34	10/05/18 22:36	1
2,4,6-Trichlorophenol	ND	*	0.0047	0.00010	mg/L		10/02/18 18:34	10/05/18 22:36	1
2,4-Dichlorophenol	ND	*	0.0047	0.000047	mg/L		10/02/18 18:34	10/05/18 22:36	1
2,4-Dimethylphenol	ND		0.0047	0.00038	mg/L		10/02/18 18:34	10/05/18 22:36	1
2,4-Dinitrophenol	ND	*	0.019	0.0019	mg/L		10/02/18 18:34	10/05/18 22:36	1
2,6-Dichlorophenol	ND	*	0.00047	0.00010	mg/L		10/02/18 18:34	10/05/18 22:36	1
2-Chlorophenol	ND	*	0.0047	0.000089	mg/L		10/02/18 18:34	10/05/18 22:36	1
2-Methylphenol	ND		0.0047	0.000047	mg/L		10/02/18 18:34	10/05/18 22:36	1
2-Nitrophenol	ND	*	0.0047	0.00024	mg/L		10/02/18 18:34	10/05/18 22:36	1
3 & 4 Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/05/18 22:36	1
4-Chloro-3-methylphenol	ND	*	0.0047	0.00026	mg/L		10/02/18 18:34	10/05/18 22:36	1
4-Nitrophenol	ND	*	0.0047	0.00095	mg/L		10/02/18 18:34	10/05/18 22:36	1
Pentachlorophenol	ND	*	0.0019	0.00076	mg/L		10/02/18 18:34	10/05/18 22:36	1
Phenol	ND	*	0.0095	0.000095	mg/L		10/02/18 18:34	10/05/18 22:36	1
4-Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/05/18 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*24 - 143*	*10/02/18 18:34*	*10/05/18 22:36*	*1*
2-Fluorobiphenyl	*71*		*54 - 120*	*10/02/18 18:34*	*10/05/18 22:36*	*1*
2-Fluorophenol (Surr)	*74*		*45 - 121*	*10/02/18 18:34*	*10/05/18 22:36*	*1*
Phenol-d5 (Surr)	*77*		*40 - 126*	*10/02/18 18:34*	*10/05/18 22:36*	*1*
Terphenyl-d14 (Surr)	*91*		*70 - 125*	*10/02/18 18:34*	*10/05/18 22:36*	*1*
Nitrobenzene-d5 (Surr)	*84*		*48 - 123*	*10/02/18 18:34*	*10/05/18 22:36*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Client Sample ID: 17-AS
Date Collected: 09/26/18 10:25
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND	*	0.0048	0.000067	mg/L		10/02/18 18:34	10/05/18 22:58	1
2,4,6-Trichlorophenol	ND	*	0.0048	0.00010	mg/L		10/02/18 18:34	10/05/18 22:58	1
2,4-Dichlorophenol	ND	*	0.0048	0.000048	mg/L		10/02/18 18:34	10/05/18 22:58	1
2,4-Dimethylphenol	ND		0.0048	0.00038	mg/L		10/02/18 18:34	10/05/18 22:58	1
2,4-Dinitrophenol	ND	*	0.019	0.0019	mg/L		10/02/18 18:34	10/05/18 22:58	1
2,6-Dichlorophenol	ND	*	0.00048	0.00010	mg/L		10/02/18 18:34	10/05/18 22:58	1
2-Chlorophenol	ND	*	0.0048	0.000090	mg/L		10/02/18 18:34	10/05/18 22:58	1
2-Methylphenol	ND		0.0048	0.000048	mg/L		10/02/18 18:34	10/05/18 22:58	1
2-Nitrophenol	ND	*	0.0048	0.00024	mg/L		10/02/18 18:34	10/05/18 22:58	1
3 & 4 Methylphenol	ND	*	0.0048	0.000095	mg/L		10/02/18 18:34	10/05/18 22:58	1
4-Chloro-3-methylphenol	ND	*	0.0048	0.00026	mg/L		10/02/18 18:34	10/05/18 22:58	1
4-Nitrophenol	ND	*	0.0048	0.00095	mg/L		10/02/18 18:34	10/05/18 22:58	1
Pentachlorophenol	ND	*	0.0019	0.00076	mg/L		10/02/18 18:34	10/05/18 22:58	1
Phenol	ND	*	0.0095	0.000095	mg/L		10/02/18 18:34	10/05/18 22:58	1
4-Methylphenol	ND	*	0.0048	0.000095	mg/L		10/02/18 18:34	10/05/18 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*82*		*24 - 143*	*10/02/18 18:34*	*10/05/18 22:58*	*1*
2-Fluorobiphenyl	*72*		*54 - 120*	*10/02/18 18:34*	*10/05/18 22:58*	*1*
2-Fluorophenol (Surr)	*71*		*45 - 121*	*10/02/18 18:34*	*10/05/18 22:58*	*1*
Phenol-d5 (Surr)	*68*		*40 - 126*	*10/02/18 18:34*	*10/05/18 22:58*	*1*
Terphenyl-d14 (Surr)	*77*		*70 - 125*	*10/02/18 18:34*	*10/05/18 22:58*	*1*
Nitrobenzene-d5 (Surr)	*84*		*48 - 123*	*10/02/18 18:34*	*10/05/18 22:58*	*1*

Client Sample ID: 17-AI
Date Collected: 09/26/18 10:01
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND	*	0.0047	0.000066	mg/L		10/02/18 18:34	10/05/18 23:19	1
2,4,6-Trichlorophenol	ND	*	0.0047	0.00010	mg/L		10/02/18 18:34	10/05/18 23:19	1
2,4-Dichlorophenol	ND	*	0.0047	0.000047	mg/L		10/02/18 18:34	10/05/18 23:19	1
2,4-Dimethylphenol	ND		0.0047	0.00038	mg/L		10/02/18 18:34	10/05/18 23:19	1
2,4-Dinitrophenol	ND	*	0.019	0.0019	mg/L		10/02/18 18:34	10/05/18 23:19	1
2,6-Dichlorophenol	ND	*	0.00047	0.00010	mg/L		10/02/18 18:34	10/05/18 23:19	1
2-Chlorophenol	ND	*	0.0047	0.000089	mg/L		10/02/18 18:34	10/05/18 23:19	1
2-Methylphenol	ND		0.0047	0.000047	mg/L		10/02/18 18:34	10/05/18 23:19	1
2-Nitrophenol	ND	*	0.0047	0.00024	mg/L		10/02/18 18:34	10/05/18 23:19	1
3 & 4 Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/05/18 23:19	1
4-Chloro-3-methylphenol	ND	*	0.0047	0.00026	mg/L		10/02/18 18:34	10/05/18 23:19	1
4-Nitrophenol	ND	*	0.0047	0.00095	mg/L		10/02/18 18:34	10/05/18 23:19	1
Pentachlorophenol	ND	*	0.0019	0.00076	mg/L		10/02/18 18:34	10/05/18 23:19	1
Phenol	ND	*	0.0095	0.000095	mg/L		10/02/18 18:34	10/05/18 23:19	1
4-Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/05/18 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*68*		*24 - 143*	*10/02/18 18:34*	*10/05/18 23:19*	*1*
2-Fluorobiphenyl	*65*		*54 - 120*	*10/02/18 18:34*	*10/05/18 23:19*	*1*
2-Fluorophenol (Surr)	*66*		*45 - 121*	*10/02/18 18:34*	*10/05/18 23:19*	*1*
Phenol-d5 (Surr)	*64*		*40 - 126*	*10/02/18 18:34*	*10/05/18 23:19*	*1*
Terphenyl-d14 (Surr)	*71*		*70 - 125*	*10/02/18 18:34*	*10/05/18 23:19*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Client Sample ID: 17-AI
Date Collected: 09/26/18 10:01
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*72*		*48 - 123*	*10/02/18 18:34*	*10/05/18 23:19*	*1*

Client Sample ID: W-24
Date Collected: 09/26/18 11:00
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND	*	0.0047	0.000066	mg/L		10/02/18 18:34	10/05/18 23:40	1
2,4,6-Trichlorophenol	ND	*	0.0047	0.00010	mg/L		10/02/18 18:34	10/05/18 23:40	1
2,4-Dichlorophenol	ND	*	0.0047	0.000047	mg/L		10/02/18 18:34	10/05/18 23:40	1
2,4-Dimethylphenol	ND		0.0047	0.00038	mg/L		10/02/18 18:34	10/05/18 23:40	1
2,4-Dinitrophenol	ND	*	0.019	0.0019	mg/L		10/02/18 18:34	10/05/18 23:40	1
2,6-Dichlorophenol	ND	*	0.00047	0.00010	mg/L		10/02/18 18:34	10/05/18 23:40	1
2-Chlorophenol	ND	*	0.0047	0.000089	mg/L		10/02/18 18:34	10/05/18 23:40	1
2-Methylphenol	ND		0.0047	0.000047	mg/L		10/02/18 18:34	10/05/18 23:40	1
2-Nitrophenol	ND	*	0.0047	0.00024	mg/L		10/02/18 18:34	10/05/18 23:40	1
3 & 4 Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/05/18 23:40	1
4-Chloro-3-methylphenol	ND	*	0.0047	0.00026	mg/L		10/02/18 18:34	10/05/18 23:40	1
4-Nitrophenol	ND	*	0.0047	0.00095	mg/L		10/02/18 18:34	10/05/18 23:40	1
Pentachlorophenol	**0.0030**	*	0.0019	0.00076	mg/L		10/02/18 18:34	10/05/18 23:40	1
Phenol	ND	*	0.0095	0.000095	mg/L		10/02/18 18:34	10/05/18 23:40	1
4-Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/05/18 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*75*		*24 - 143*	*10/02/18 18:34*	*10/05/18 23:40*	*1*
2-Fluorobiphenyl	*70*		*54 - 120*	*10/02/18 18:34*	*10/05/18 23:40*	*1*
2-Fluorophenol (Surr)	*68*		*45 - 121*	*10/02/18 18:34*	*10/05/18 23:40*	*1*
Phenol-d5 (Surr)	*72*		*40 - 126*	*10/02/18 18:34*	*10/05/18 23:40*	*1*
Terphenyl-d14 (Surr)	*76*		*70 - 125*	*10/02/18 18:34*	*10/05/18 23:40*	*1*
Nitrobenzene-d5 (Surr)	*77*		*48 - 123*	*10/02/18 18:34*	*10/05/18 23:40*	*1*

Client Sample ID: W-25
Date Collected: 09/26/18 14:31
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND	*	0.0047	0.000066	mg/L		10/02/18 18:34	10/06/18 00:01	1
2,4,6-Trichlorophenol	ND	*	0.0047	0.00010	mg/L		10/02/18 18:34	10/06/18 00:01	1
2,4-Dichlorophenol	ND	*	0.0047	0.000047	mg/L		10/02/18 18:34	10/06/18 00:01	1
2,4-Dimethylphenol	ND		0.0047	0.00038	mg/L		10/02/18 18:34	10/06/18 00:01	1
2,4-Dinitrophenol	ND	*	0.019	0.0019	mg/L		10/02/18 18:34	10/06/18 00:01	1
2,6-Dichlorophenol	ND	*	0.00047	0.00010	mg/L		10/02/18 18:34	10/06/18 00:01	1
2-Chlorophenol	ND	*	0.0047	0.000089	mg/L		10/02/18 18:34	10/06/18 00:01	1
2-Methylphenol	ND		0.0047	0.000047	mg/L		10/02/18 18:34	10/06/18 00:01	1
2-Nitrophenol	ND	*	0.0047	0.00024	mg/L		10/02/18 18:34	10/06/18 00:01	1
3 & 4 Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/06/18 00:01	1
4-Chloro-3-methylphenol	ND	*	0.0047	0.00026	mg/L		10/02/18 18:34	10/06/18 00:01	1
4-Nitrophenol	ND	*	0.0047	0.00095	mg/L		10/02/18 18:34	10/06/18 00:01	1
Pentachlorophenol	**0.013**	*	0.0019	0.00076	mg/L		10/02/18 18:34	10/06/18 00:01	1
Phenol	ND	*	0.0095	0.000095	mg/L		10/02/18 18:34	10/06/18 00:01	1
4-Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/06/18 00:01	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*76*		*24 - 143*	*10/02/18 18:34*	*10/06/18 00:01*	*1*
2-Fluorobiphenyl	*67*		*54 - 120*	*10/02/18 18:34*	*10/06/18 00:01*	*1*
2-Fluorophenol (Surr)	*62*		*45 - 121*	*10/02/18 18:34*	*10/06/18 00:01*	*1*
Phenol-d5 (Surr)	*67*		*40 - 126*	*10/02/18 18:34*	*10/06/18 00:01*	*1*
Terphenyl-d14 (Surr)	*76*		*70 - 125*	*10/02/18 18:34*	*10/06/18 00:01*	*1*
Nitrobenzene-d5 (Surr)	*72*		*48 - 123*	*10/02/18 18:34*	*10/06/18 00:01*	*1*

Client Sample ID: W-26
Date Collected: 09/26/18 13:55
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND	*	0.0047	0.000066	mg/L		10/02/18 18:34	10/06/18 00:23	1
2,4,6-Trichlorophenol	ND	*	0.0047	0.00010	mg/L		10/02/18 18:34	10/06/18 00:23	1
2,4-Dichlorophenol	ND	*	0.0047	0.000047	mg/L		10/02/18 18:34	10/06/18 00:23	1
2,4-Dimethylphenol	ND		0.0047	0.00038	mg/L		10/02/18 18:34	10/06/18 00:23	1
2,4-Dinitrophenol	ND	*	0.019	0.0019	mg/L		10/02/18 18:34	10/06/18 00:23	1
2,6-Dichlorophenol	ND	*	0.00047	0.00010	mg/L		10/02/18 18:34	10/06/18 00:23	1
2-Chlorophenol	ND	*	0.0047	0.000089	mg/L		10/02/18 18:34	10/06/18 00:23	1
2-Methylphenol	ND		0.0047	0.000047	mg/L		10/02/18 18:34	10/06/18 00:23	1
2-Nitrophenol	ND	*	0.0047	0.00024	mg/L		10/02/18 18:34	10/06/18 00:23	1
3 & 4 Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/06/18 00:23	1
4-Chloro-3-methylphenol	ND	*	0.0047	0.00026	mg/L		10/02/18 18:34	10/06/18 00:23	1
4-Nitrophenol	ND	*	0.0047	0.00095	mg/L		10/02/18 18:34	10/06/18 00:23	1
Pentachlorophenol	**0.032**	*	0.0019	0.00076	mg/L		10/02/18 18:34	10/06/18 00:23	1
Phenol	ND	*	0.0095	0.000095	mg/L		10/02/18 18:34	10/06/18 00:23	1
4-Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/06/18 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*62*		*24 - 143*	*10/02/18 18:34*	*10/06/18 00:23*	*1*
2-Fluorobiphenyl	*67*		*54 - 120*	*10/02/18 18:34*	*10/06/18 00:23*	*1*
2-Fluorophenol (Surr)	*70*		*45 - 121*	*10/02/18 18:34*	*10/06/18 00:23*	*1*
Phenol-d5 (Surr)	*81*		*40 - 126*	*10/02/18 18:34*	*10/06/18 00:23*	*1*
Terphenyl-d14 (Surr)	*80*		*70 - 125*	*10/02/18 18:34*	*10/06/18 00:23*	*1*
Nitrobenzene-d5 (Surr)	*79*		*48 - 123*	*10/02/18 18:34*	*10/06/18 00:23*	*1*

Client Sample ID: W-29
Date Collected: 09/26/18 13:29
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND	*	0.0048	0.000067	mg/L		10/02/18 18:34	10/06/18 00:44	1
2,4,6-Trichlorophenol	ND	*	0.0048	0.00010	mg/L		10/02/18 18:34	10/06/18 00:44	1
2,4-Dichlorophenol	ND	*	0.0048	0.000048	mg/L		10/02/18 18:34	10/06/18 00:44	1
2,4-Dimethylphenol	ND		0.0048	0.00038	mg/L		10/02/18 18:34	10/06/18 00:44	1
2,4-Dinitrophenol	ND	*	0.019	0.0019	mg/L		10/02/18 18:34	10/06/18 00:44	1
2,6-Dichlorophenol	ND	*	0.00048	0.00010	mg/L		10/02/18 18:34	10/06/18 00:44	1
2-Chlorophenol	ND	*	0.0048	0.000089	mg/L		10/02/18 18:34	10/06/18 00:44	1
2-Methylphenol	ND		0.0048	0.000048	mg/L		10/02/18 18:34	10/06/18 00:44	1
2-Nitrophenol	ND	*	0.0048	0.00024	mg/L		10/02/18 18:34	10/06/18 00:44	1
3 & 4 Methylphenol	ND	*	0.0048	0.000095	mg/L		10/02/18 18:34	10/06/18 00:44	1
4-Chloro-3-methylphenol	ND	*	0.0048	0.00026	mg/L		10/02/18 18:34	10/06/18 00:44	1
4-Nitrophenol	ND	*	0.0048	0.00095	mg/L		10/02/18 18:34	10/06/18 00:44	1
Pentachlorophenol	**0.0043**	*	0.0019	0.00076	mg/L		10/02/18 18:34	10/06/18 00:44	1
Phenol	ND	*	0.0095	0.000095	mg/L		10/02/18 18:34	10/06/18 00:44	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Client Sample ID: W-29
Date Collected: 09/26/18 13:29
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND	*	0.0048	0.000095	mg/L		10/02/18 18:34	10/06/18 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*77*		*24 - 143*	*10/02/18 18:34*	*10/06/18 00:44*	*1*
2-Fluorobiphenyl	*68*		*54 - 120*	*10/02/18 18:34*	*10/06/18 00:44*	*1*
2-Fluorophenol (Surr)	*73*		*45 - 121*	*10/02/18 18:34*	*10/06/18 00:44*	*1*
Phenol-d5 (Surr)	*76*		*40 - 126*	*10/02/18 18:34*	*10/06/18 00:44*	*1*
Terphenyl-d14 (Surr)	*78*		*70 - 125*	*10/02/18 18:34*	*10/06/18 00:44*	*1*
Nitrobenzene-d5 (Surr)	*81*		*48 - 123*	*10/02/18 18:34*	*10/06/18 00:44*	*1*

Client Sample ID: W-32
Date Collected: 09/26/18 11:37
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND	*	0.0047	0.000066	mg/L		10/02/18 18:34	10/06/18 01:05	1
2,4,6-Trichlorophenol	ND	*	0.0047	0.00010	mg/L		10/02/18 18:34	10/06/18 01:05	1
2,4-Dichlorophenol	ND	*	0.0047	0.000047	mg/L		10/02/18 18:34	10/06/18 01:05	1
2,4-Dimethylphenol	ND		0.0047	0.00038	mg/L		10/02/18 18:34	10/06/18 01:05	1
2,4-Dinitrophenol	ND	*	0.019	0.0019	mg/L		10/02/18 18:34	10/06/18 01:05	1
2,6-Dichlorophenol	ND	*	0.00047	0.00010	mg/L		10/02/18 18:34	10/06/18 01:05	1
2-Chlorophenol	ND	*	0.0047	0.000089	mg/L		10/02/18 18:34	10/06/18 01:05	1
2-Methylphenol	ND		0.0047	0.000047	mg/L		10/02/18 18:34	10/06/18 01:05	1
2-Nitrophenol	ND	*	0.0047	0.00024	mg/L		10/02/18 18:34	10/06/18 01:05	1
3 & 4 Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/06/18 01:05	1
4-Chloro-3-methylphenol	ND	*	0.0047	0.00026	mg/L		10/02/18 18:34	10/06/18 01:05	1
4-Nitrophenol	ND	*	0.0047	0.00095	mg/L		10/02/18 18:34	10/06/18 01:05	1
Pentachlorophenol	**0.0023**	*	0.0019	0.00076	mg/L		10/02/18 18:34	10/06/18 01:05	1
Phenol	ND	*	0.0095	0.000095	mg/L		10/02/18 18:34	10/06/18 01:05	1
4-Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/06/18 01:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*38*		*24 - 143*	*10/02/18 18:34*	*10/06/18 01:05*	*1*
2-Fluorobiphenyl	*75*		*54 - 120*	*10/02/18 18:34*	*10/06/18 01:05*	*1*
2-Fluorophenol (Surr)	*29*	*X*	*45 - 121*	*10/02/18 18:34*	*10/06/18 01:05*	*1*
Phenol-d5 (Surr)	*26*	*X*	*40 - 126*	*10/02/18 18:34*	*10/06/18 01:05*	*1*
Terphenyl-d14 (Surr)	*72*		*70 - 125*	*10/02/18 18:34*	*10/06/18 01:05*	*1*
Nitrobenzene-d5 (Surr)	*65*		*48 - 123*	*10/02/18 18:34*	*10/06/18 01:05*	*1*

Client Sample ID: ZIPPO
Date Collected: 09/26/18 14:00
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND	*	0.0047	0.000066	mg/L		10/02/18 18:34	10/06/18 01:26	1
2,4,6-Trichlorophenol	ND	*	0.0047	0.00010	mg/L		10/02/18 18:34	10/06/18 01:26	1
2,4-Dichlorophenol	ND	*	0.0047	0.000047	mg/L		10/02/18 18:34	10/06/18 01:26	1
2,4-Dimethylphenol	ND		0.0047	0.00038	mg/L		10/02/18 18:34	10/06/18 01:26	1
2,4-Dinitrophenol	ND	*	0.019	0.0019	mg/L		10/02/18 18:34	10/06/18 01:26	1
2,6-Dichlorophenol	ND	*	0.00047	0.00010	mg/L		10/02/18 18:34	10/06/18 01:26	1
2-Chlorophenol	ND	*	0.0047	0.000089	mg/L		10/02/18 18:34	10/06/18 01:26	1
2-Methylphenol	ND		0.0047	0.000047	mg/L		10/02/18 18:34	10/06/18 01:26	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Client Sample ID: ZIPPO
Date Collected: 09/26/18 14:00
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND	*	0.0047	0.00024	mg/L		10/02/18 18:34	10/06/18 01:26	1
3 & 4 Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/06/18 01:26	1
4-Chloro-3-methylphenol	ND	*	0.0047	0.00026	mg/L		10/02/18 18:34	10/06/18 01:26	1
4-Nitrophenol	ND	*	0.0047	0.00095	mg/L		10/02/18 18:34	10/06/18 01:26	1
Pentachlorophenol	ND	*	0.0019	0.00076	mg/L		10/02/18 18:34	10/06/18 01:26	1
Phenol	ND	*	0.0095	0.000095	mg/L		10/02/18 18:34	10/06/18 01:26	1
4-Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/06/18 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*79*		*24 - 143*	*10/02/18 18:34*	*10/06/18 01:26*	*1*
2-Fluorobiphenyl	*66*		*54 - 120*	*10/02/18 18:34*	*10/06/18 01:26*	*1*
2-Fluorophenol (Surr)	*69*		*45 - 121*	*10/02/18 18:34*	*10/06/18 01:26*	*1*
Phenol-d5 (Surr)	*72*		*40 - 126*	*10/02/18 18:34*	*10/06/18 01:26*	*1*
Terphenyl-d14 (Surr)	*86*		*70 - 125*	*10/02/18 18:34*	*10/06/18 01:26*	*1*
Nitrobenzene-d5 (Surr)	*78*		*48 - 123*	*10/02/18 18:34*	*10/06/18 01:26*	*1*

Client Sample ID: 13-S
Date Collected: 09/26/18 15:35
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND	*	0.0048	0.000067	mg/L		10/02/18 18:34	10/06/18 01:47	1
2,4,6-Trichlorophenol	ND	*	0.0048	0.00011	mg/L		10/02/18 18:34	10/06/18 01:47	1
2,4-Dichlorophenol	ND	*	0.0048	0.000048	mg/L		10/02/18 18:34	10/06/18 01:47	1
2,4-Dimethylphenol	ND		0.0048	0.00038	mg/L		10/02/18 18:34	10/06/18 01:47	1
2,4-Dinitrophenol	ND	*	0.019	0.0019	mg/L		10/02/18 18:34	10/06/18 01:47	1
2,6-Dichlorophenol	ND	*	0.00048	0.00011	mg/L		10/02/18 18:34	10/06/18 01:47	1
2-Chlorophenol	ND	*	0.0048	0.000090	mg/L		10/02/18 18:34	10/06/18 01:47	1
2-Methylphenol	ND		0.0048	0.000048	mg/L		10/02/18 18:34	10/06/18 01:47	1
2-Nitrophenol	ND	*	0.0048	0.00024	mg/L		10/02/18 18:34	10/06/18 01:47	1
3 & 4 Methylphenol	ND	*	0.0048	0.000096	mg/L		10/02/18 18:34	10/06/18 01:47	1
4-Chloro-3-methylphenol	ND	*	0.0048	0.00026	mg/L		10/02/18 18:34	10/06/18 01:47	1
4-Nitrophenol	ND	*	0.0048	0.00096	mg/L		10/02/18 18:34	10/06/18 01:47	1
Pentachlorophenol	**0.0085**	*	0.0019	0.00077	mg/L		10/02/18 18:34	10/06/18 01:47	1
Phenol	**0.00016**	J *	0.0096	0.000096	mg/L		10/02/18 18:34	10/06/18 01:47	1
4-Methylphenol	ND	*	0.0048	0.000096	mg/L		10/02/18 18:34	10/06/18 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*		*24 - 143*	*10/02/18 18:34*	*10/06/18 01:47*	*1*
2-Fluorobiphenyl	*65*		*54 - 120*	*10/02/18 18:34*	*10/06/18 01:47*	*1*
2-Fluorophenol (Surr)	*72*		*45 - 121*	*10/02/18 18:34*	*10/06/18 01:47*	*1*
Phenol-d5 (Surr)	*73*		*40 - 126*	*10/02/18 18:34*	*10/06/18 01:47*	*1*
Terphenyl-d14 (Surr)	*78*		*70 - 125*	*10/02/18 18:34*	*10/06/18 01:47*	*1*
Nitrobenzene-d5 (Surr)	*77*		*48 - 123*	*10/02/18 18:34*	*10/06/18 01:47*	*1*

Client Sample ID: 13-I
Date Collected: 09/26/18 15:55
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND	*	0.0047	0.000066	mg/L		10/02/18 18:34	10/06/18 02:09	1
2,4,6-Trichlorophenol	ND	*	0.0047	0.00010	mg/L		10/02/18 18:34	10/06/18 02:09	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Client Sample ID: 13-I
Date Collected: 09/26/18 15:55
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND	*	0.0047	0.000047	mg/L		10/02/18 18:34	10/06/18 02:09	1
2,4-Dimethylphenol	ND		0.0047	0.00038	mg/L		10/02/18 18:34	10/06/18 02:09	1
2,4-Dinitrophenol	ND	*	0.019	0.0019	mg/L		10/02/18 18:34	10/06/18 02:09	1
2,6-Dichlorophenol	ND	*	0.00047	0.00010	mg/L		10/02/18 18:34	10/06/18 02:09	1
2-Chlorophenol	ND	*	0.0047	0.000089	mg/L		10/02/18 18:34	10/06/18 02:09	1
2-Methylphenol	ND		0.0047	0.000047	mg/L		10/02/18 18:34	10/06/18 02:09	1
2-Nitrophenol	ND	*	0.0047	0.00024	mg/L		10/02/18 18:34	10/06/18 02:09	1
3 & 4 Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/06/18 02:09	1
4-Chloro-3-methylphenol	ND	*	0.0047	0.00026	mg/L		10/02/18 18:34	10/06/18 02:09	1
4-Nitrophenol	ND	*	0.0047	0.00095	mg/L		10/02/18 18:34	10/06/18 02:09	1
Phenol	ND	*	0.0095	0.000095	mg/L		10/02/18 18:34	10/06/18 02:09	1
4-Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/06/18 02:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*79*		*24 - 143*	*10/02/18 18:34*	*10/06/18 02:09*	*1*
2-Fluorobiphenyl	*58*		*54 - 120*	*10/02/18 18:34*	*10/06/18 02:09*	*1*
2-Fluorophenol (Surr)	*70*		*45 - 121*	*10/02/18 18:34*	*10/06/18 02:09*	*1*
Phenol-d5 (Surr)	*61*		*40 - 126*	*10/02/18 18:34*	*10/06/18 02:09*	*1*
Terphenyl-d14 (Surr)	*78*		*70 - 125*	*10/02/18 18:34*	*10/06/18 02:09*	*1*
Nitrobenzene-d5 (Surr)	*65*		*48 - 123*	*10/02/18 18:34*	*10/06/18 02:09*	*1*

Client Sample ID: 20-I
Date Collected: 09/26/18 16:13
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND	*	0.0048	0.000067	mg/L		10/02/18 18:34	10/06/18 02:30	1
2,4,6-Trichlorophenol	ND	*	0.0048	0.00010	mg/L		10/02/18 18:34	10/06/18 02:30	1
2,4-Dichlorophenol	ND	*	0.0048	0.000048	mg/L		10/02/18 18:34	10/06/18 02:30	1
2,4-Dimethylphenol	ND		0.0048	0.00038	mg/L		10/02/18 18:34	10/06/18 02:30	1
2,4-Dinitrophenol	ND	*	0.019	0.0019	mg/L		10/02/18 18:34	10/06/18 02:30	1
2,6-Dichlorophenol	ND	*	0.00048	0.00010	mg/L		10/02/18 18:34	10/06/18 02:30	1
2-Chlorophenol	ND	*	0.0048	0.000089	mg/L		10/02/18 18:34	10/06/18 02:30	1
2-Methylphenol	ND		0.0048	0.000048	mg/L		10/02/18 18:34	10/06/18 02:30	1
2-Nitrophenol	ND	*	0.0048	0.00024	mg/L		10/02/18 18:34	10/06/18 02:30	1
3 & 4 Methylphenol	ND	*	0.0048	0.000095	mg/L		10/02/18 18:34	10/06/18 02:30	1
4-Chloro-3-methylphenol	ND	*	0.0048	0.00026	mg/L		10/02/18 18:34	10/06/18 02:30	1
4-Nitrophenol	ND	*	0.0048	0.00095	mg/L		10/02/18 18:34	10/06/18 02:30	1
Pentachlorophenol	**0.018**	*	0.0019	0.00076	mg/L		10/02/18 18:34	10/06/18 02:30	1
Phenol	ND	*	0.0095	0.000095	mg/L		10/02/18 18:34	10/06/18 02:30	1
4-Methylphenol	ND	*	0.0048	0.000095	mg/L		10/02/18 18:34	10/06/18 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*77*		*24 - 143*	*10/02/18 18:34*	*10/06/18 02:30*	*1*
2-Fluorobiphenyl	*69*		*54 - 120*	*10/02/18 18:34*	*10/06/18 02:30*	*1*
2-Fluorophenol (Surr)	*70*		*45 - 121*	*10/02/18 18:34*	*10/06/18 02:30*	*1*
Phenol-d5 (Surr)	*60*		*40 - 126*	*10/02/18 18:34*	*10/06/18 02:30*	*1*
Terphenyl-d14 (Surr)	*76*		*70 - 125*	*10/02/18 18:34*	*10/06/18 02:30*	*1*
Nitrobenzene-d5 (Surr)	*73*		*48 - 123*	*10/02/18 18:34*	*10/06/18 02:30*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Client Sample ID: BLIND
Date Collected: 09/26/18 17:00
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND	*	0.0048	0.000067	mg/L		10/02/18 18:34	10/06/18 02:51	1
2,4,6-Trichlorophenol	ND	*	0.0048	0.00011	mg/L		10/02/18 18:34	10/06/18 02:51	1
2,4-Dichlorophenol	ND	*	0.0048	0.000048	mg/L		10/02/18 18:34	10/06/18 02:51	1
2,4-Dimethylphenol	ND		0.0048	0.00039	mg/L		10/02/18 18:34	10/06/18 02:51	1
2,4-Dinitrophenol	ND	*	0.019	0.0019	mg/L		10/02/18 18:34	10/06/18 02:51	1
2,6-Dichlorophenol	ND	*	0.00048	0.00011	mg/L		10/02/18 18:34	10/06/18 02:51	1
2-Chlorophenol	ND	*	0.0048	0.000091	mg/L		10/02/18 18:34	10/06/18 02:51	1
2-Methylphenol	ND		0.0048	0.000048	mg/L		10/02/18 18:34	10/06/18 02:51	1
2-Nitrophenol	ND	*	0.0048	0.00024	mg/L		10/02/18 18:34	10/06/18 02:51	1
3 & 4 Methylphenol	ND	*	0.0048	0.000096	mg/L		10/02/18 18:34	10/06/18 02:51	1
4-Chloro-3-methylphenol	ND	*	0.0048	0.00026	mg/L		10/02/18 18:34	10/06/18 02:51	1
4-Nitrophenol	ND	*	0.0048	0.00096	mg/L		10/02/18 18:34	10/06/18 02:51	1
Pentachlorophenol	**0.014**	*	0.0019	0.00077	mg/L		10/02/18 18:34	10/06/18 02:51	1
Phenol	ND	*	0.0096	0.000096	mg/L		10/02/18 18:34	10/06/18 02:51	1
4-Methylphenol	ND	*	0.0048	0.000096	mg/L		10/02/18 18:34	10/06/18 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*64*		*24 - 143*	*10/02/18 18:34*	*10/06/18 02:51*	*1*
2-Fluorobiphenyl	*56*		*54 - 120*	*10/02/18 18:34*	*10/06/18 02:51*	*1*
2-Fluorophenol (Surr)	*59*		*45 - 121*	*10/02/18 18:34*	*10/06/18 02:51*	*1*
Phenol-d5 (Surr)	*63*		*40 - 126*	*10/02/18 18:34*	*10/06/18 02:51*	*1*
Terphenyl-d14 (Surr)	*68*	*X*	*70 - 125*	*10/02/18 18:34*	*10/06/18 02:51*	*1*
Nitrobenzene-d5 (Surr)	*67*		*48 - 123*	*10/02/18 18:34*	*10/06/18 02:51*	*1*

Client Sample ID: EQUIPMENT CHECK
Date Collected: 09/27/18 15:00
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-19
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND	*	0.0047	0.000066	mg/L		10/02/18 18:34	10/06/18 03:12	1
2,4,6-Trichlorophenol	ND	*	0.0047	0.00010	mg/L		10/02/18 18:34	10/06/18 03:12	1
2,4-Dichlorophenol	ND	*	0.0047	0.000047	mg/L		10/02/18 18:34	10/06/18 03:12	1
2,4-Dimethylphenol	ND		0.0047	0.00038	mg/L		10/02/18 18:34	10/06/18 03:12	1
2,4-Dinitrophenol	ND	*	0.019	0.0019	mg/L		10/02/18 18:34	10/06/18 03:12	1
2,6-Dichlorophenol	ND	*	0.00047	0.00010	mg/L		10/02/18 18:34	10/06/18 03:12	1
2-Chlorophenol	ND	*	0.0047	0.000089	mg/L		10/02/18 18:34	10/06/18 03:12	1
2-Methylphenol	ND		0.0047	0.000047	mg/L		10/02/18 18:34	10/06/18 03:12	1
2-Nitrophenol	ND	*	0.0047	0.00024	mg/L		10/02/18 18:34	10/06/18 03:12	1
3 & 4 Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/06/18 03:12	1
4-Chloro-3-methylphenol	ND	*	0.0047	0.00026	mg/L		10/02/18 18:34	10/06/18 03:12	1
4-Nitrophenol	ND	*	0.0047	0.00095	mg/L		10/02/18 18:34	10/06/18 03:12	1
Pentachlorophenol	ND	*	0.0019	0.00076	mg/L		10/02/18 18:34	10/06/18 03:12	1
Phenol	ND	*	0.0095	0.000095	mg/L		10/02/18 18:34	10/06/18 03:12	1
4-Methylphenol	ND	*	0.0047	0.000095	mg/L		10/02/18 18:34	10/06/18 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*82*		*24 - 143*	*10/02/18 18:34*	*10/06/18 03:12*	*1*
2-Fluorobiphenyl	*72*		*54 - 120*	*10/02/18 18:34*	*10/06/18 03:12*	*1*
2-Fluorophenol (Surr)	*64*		*45 - 121*	*10/02/18 18:34*	*10/06/18 03:12*	*1*
Phenol-d5 (Surr)	*67*		*40 - 126*	*10/02/18 18:34*	*10/06/18 03:12*	*1*
Terphenyl-d14 (Surr)	*87*		*70 - 125*	*10/02/18 18:34*	*10/06/18 03:12*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Client Sample ID: EQUIPMENT CHECK
Date Collected: 09/27/18 15:00
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-19
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	76		48 - 123	10/02/18 18:34	10/06/18 03:12	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels - DL

Client Sample ID: 7-S
Date Collected: 09/27/18 14:42
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	1.8	*	0.076	0.030	mg/L		10/02/18 18:34	10/09/18 22:47	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*92*	*D*	*24 - 143*	*10/02/18 18:34*	*10/09/18 22:47*	*40*
2-Fluorobiphenyl	*92*	*D*	*54 - 120*	*10/02/18 18:34*	*10/09/18 22:47*	*40*
2-Fluorophenol (Surr)	*33*	*D X*	*45 - 121*	*10/02/18 18:34*	*10/09/18 22:47*	*40*
Phenol-d5 (Surr)	*0*	*D X*	*40 - 126*	*10/02/18 18:34*	*10/09/18 22:47*	*40*
Terphenyl-d14 (Surr)	*90*	*D*	*70 - 125*	*10/02/18 18:34*	*10/09/18 22:47*	*40*
Nitrobenzene-d5 (Surr)	*80*	*D*	*48 - 123*	*10/02/18 18:34*	*10/09/18 22:47*	*40*

Client Sample ID: 12-I
Date Collected: 09/27/18 08:58
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.097	*	0.0076	0.0030	mg/L		10/02/18 18:34	10/09/18 23:30	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*54*	*D*	*24 - 143*	*10/02/18 18:34*	*10/09/18 23:30*	*4*
2-Fluorobiphenyl	*68*	*D*	*54 - 120*	*10/02/18 18:34*	*10/09/18 23:30*	*4*
2-Fluorophenol (Surr)	*51*	*D*	*45 - 121*	*10/02/18 18:34*	*10/09/18 23:30*	*4*
Phenol-d5 (Surr)	*59*	*D*	*40 - 126*	*10/02/18 18:34*	*10/09/18 23:30*	*4*
Terphenyl-d14 (Surr)	*81*	*D*	*70 - 125*	*10/02/18 18:34*	*10/09/18 23:30*	*4*
Nitrobenzene-d5 (Surr)	*50*	*D*	*48 - 123*	*10/02/18 18:34*	*10/09/18 23:30*	*4*

Client Sample ID: 13-I
Date Collected: 09/26/18 15:55
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.37	*	0.019	0.0076	mg/L		10/02/18 18:34	10/09/18 23:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*59*	*D*	*24 - 143*	*10/02/18 18:34*	*10/09/18 23:51*	*10*
2-Fluorobiphenyl	*59*	*D*	*54 - 120*	*10/02/18 18:34*	*10/09/18 23:51*	*10*
2-Fluorophenol (Surr)	*0*	*D X*	*45 - 121*	*10/02/18 18:34*	*10/09/18 23:51*	*10*
Phenol-d5 (Surr)	*0*	*D X*	*40 - 126*	*10/02/18 18:34*	*10/09/18 23:51*	*10*
Terphenyl-d14 (Surr)	*74*	*D*	*70 - 125*	*10/02/18 18:34*	*10/09/18 23:51*	*10*
Nitrobenzene-d5 (Surr)	*52*	*D*	*48 - 123*	*10/02/18 18:34*	*10/09/18 23:51*	*10*

Surrogate Summary

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-114941-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TBP (24-143)	FBP (54-120)	2FP (45-121)	PHL (40-126)	TPHL (70-125)	NBZ (48-123)		
280-114941-1	6 I	80	63	69	66	81	71		
280-114941-2	7-S	87	69	80	80	82	80		
280-114941-2 - DL	7-S	92 D	92 D	33 D X	0 D X	90 D	80 D		
280-114941-3	11-S	26	74	38 X	39 X	79	80		
280-114941-4	11-I	76	71	67	67	88	72		
280-114941-5	12-I	88	75	72	80	81	79		
280-114941-5 - DL	12-I	54 D	68 D	51 D	59 D	81 D	50 D		
280-114941-6	W-23	84	71	74	77	91	84		
280-114941-7	17-AS	82	72	71	68	77	84		
280-114941-8	17-AI	68	65	66	64	71	72		
280-114941-9	W-24	75	70	68	72	76	77		
280-114941-10	W-25	76	67	62	67	76	72		
280-114941-11	W-26	62	67	70	81	80	79		
280-114941-12	W-29	77	68	73	76	78	81		
280-114941-13	W-32	38	75	29 X	26 X	72	65		
280-114941-14	ZIPPO	79	66	69	72	86	78		
280-114941-15	13-S	78	65	72	73	78	77		
280-114941-16	13-I	79	58	70	61	78	65		
280-114941-16 - DL	13-I	59 D	59 D	0 D X	0 D X	74 D	52 D		
280-114941-17	20-I	77	69	70	60	76	73		
280-114941-18	BLIND	64	56	59	63	68 X	67		
280-114941-19	EQUIPMENT CHECK	82	72	64	67	87	76		
LCS 280-431800/2-A	Lab Control Sample	26	135 X	20 X	31 X	81	87		
LCSD 280-431800/3-A	Lab Control Sample Dup	89	72	75	78	73	84		
MB 280-431800/1-A	Method Blank	74	75	84	81	89	86		

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
NBZ = Nitrobenzene-d5 (Surr)

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 280-431800/1-A
Matrix: Water
Analysis Batch: 432255

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		0.0050	0.000070	mg/L		10/02/18 18:34	10/05/18 19:47	1
2,4,6-Trichlorophenol	ND		0.0050	0.00011	mg/L		10/02/18 18:34	10/05/18 19:47	1
2,4-Dichlorophenol	ND		0.0050	0.000050	mg/L		10/02/18 18:34	10/05/18 19:47	1
2,4-Dimethylphenol	ND		0.0050	0.00040	mg/L		10/02/18 18:34	10/05/18 19:47	1
2,4-Dinitrophenol	ND		0.020	0.0020	mg/L		10/02/18 18:34	10/05/18 19:47	1
2,6-Dichlorophenol	ND		0.00050	0.00011	mg/L		10/02/18 18:34	10/05/18 19:47	1
2-Chlorophenol	ND		0.0050	0.000094	mg/L		10/02/18 18:34	10/05/18 19:47	1
2-Methylphenol	ND		0.0050	0.000050	mg/L		10/02/18 18:34	10/05/18 19:47	1
2-Nitrophenol	ND		0.0050	0.00025	mg/L		10/02/18 18:34	10/05/18 19:47	1
3 & 4 Methylphenol	ND		0.0050	0.00010	mg/L		10/02/18 18:34	10/05/18 19:47	1
4-Chloro-3-methylphenol	ND		0.0050	0.00027	mg/L		10/02/18 18:34	10/05/18 19:47	1
4-Nitrophenol	ND		0.0050	0.0010	mg/L		10/02/18 18:34	10/05/18 19:47	1
Pentachlorophenol	ND		0.0020	0.00080	mg/L		10/02/18 18:34	10/05/18 19:47	1
Phenol	ND		0.010	0.00010	mg/L		10/02/18 18:34	10/05/18 19:47	1
4-Methylphenol	ND		0.0050	0.00010	mg/L		10/02/18 18:34	10/05/18 19:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*74*		*24 - 143*	*10/02/18 18:34*	*10/05/18 19:47*	*1*
2-Fluorobiphenyl	*75*		*54 - 120*	*10/02/18 18:34*	*10/05/18 19:47*	*1*
2-Fluorophenol (Surr)	*84*		*45 - 121*	*10/02/18 18:34*	*10/05/18 19:47*	*1*
Phenol-d5 (Surr)	*81*		*40 - 126*	*10/02/18 18:34*	*10/05/18 19:47*	*1*
Terphenyl-d14 (Surr)	*89*		*70 - 125*	*10/02/18 18:34*	*10/05/18 19:47*	*1*
Nitrobenzene-d5 (Surr)	*86*		*48 - 123*	*10/02/18 18:34*	*10/05/18 19:47*	*1*

Lab Sample ID: LCS 280-431800/2-A
Matrix: Water
Analysis Batch: 432255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	0.0100	0.00231	J *	mg/L		23	25 - 120
2,4,6-Trichlorophenol	0.0100	0.00205	J *	mg/L		20	25 - 120
2,4-Dimethylphenol	0.0100	0.00689		mg/L		69	26 - 120
2,4-Dinitrophenol	0.0200	0.00771	J	mg/L		39	10 - 120
2,6-Dichlorophenol	0.0100	0.00201	*	mg/L		20	50 - 150
2-Chlorophenol	0.0100	0.00242	J *	mg/L		24	35 - 120
2-Methylphenol	0.0100	0.00592		mg/L		59	45 - 120
2-Nitrophenol	0.0100	0.00244	J *	mg/L		24	45 - 120
3 & 4 Methylphenol	0.0100	0.00516		mg/L		52	28 - 120
4-Chloro-3-methylphenol	0.0100	0.00524		mg/L		52	35 - 120
4-Nitrophenol	0.0200	0.00258	J *	mg/L		13	15 - 120
Pentachlorophenol	0.0200	0.00359		mg/L		18	14 - 120
Phenol	0.0100	0.00291	J *	mg/L		29	38 - 120
4-Methylphenol	0.0100	0.00516		mg/L		52	34 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*26*		*24 - 143*
2-Fluorobiphenyl	*135*	*X*	*54 - 120*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 280-431800/2-A
Matrix: Water
Analysis Batch: 432255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431800

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*20*	*X*	*45 - 121*
Phenol-d5 (Surr)	*31*	*X*	*40 - 126*
Terphenyl-d14 (Surr)	*81*		*70 - 125*
Nitrobenzene-d5 (Surr)	*87*		*48 - 123*

Lab Sample ID: LCSD 280-431800/3-A
Matrix: Water
Analysis Batch: 432255

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 431800

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol			0.0100	0.00785	*	mg/L		78	25 - 120	109	35
2,4,6-Trichlorophenol			0.0100	0.00781	*	mg/L		78	25 - 120	117	30
2,4-Dimethylphenol			0.0100	0.00663		mg/L		66	26 - 120	4	31
2,4-Dinitrophenol			0.0200	0.0149	J *	mg/L		74	10 - 120	63	30
2,6-Dichlorophenol			0.0100	0.00779	*	mg/L		78	50 - 150	118	30
2-Chlorophenol			0.0100	0.00741	*	mg/L		74	35 - 120	102	38
2-Methylphenol			0.0100	0.00782		mg/L		78	45 - 120	28	30
2-Nitrophenol			0.0100	0.00822	*	mg/L		82	45 - 120	108	32
3 & 4 Methylphenol			0.0100	0.00764	*	mg/L		76	28 - 120	39	27
4-Chloro-3-methylphenol			0.0100	0.00778	*	mg/L		78	35 - 120	39	28
4-Nitrophenol			0.0200	0.0139	*	mg/L		70	15 - 120	137	53
Pentachlorophenol			0.0200	0.0133	*	mg/L		66	14 - 120	115	50
Phenol			0.0100	0.00792	J *	mg/L		79	38 - 120	93	36
4-Methylphenol			0.0100	0.00764	*	mg/L		76	34 - 120	39	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*89*		*24 - 143*
2-Fluorobiphenyl	*72*		*54 - 120*
2-Fluorophenol (Surr)	*75*		*45 - 121*
Phenol-d5 (Surr)	*78*		*40 - 126*
Terphenyl-d14 (Surr)	*73*		*70 - 125*
Nitrobenzene-d5 (Surr)	*84*		*48 - 123*

GC/MS Semi VOA

Prep Batch: 431800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-114941-1	6 I	Total/NA	Water	3520C	
280-114941-2	7-S	Total/NA	Water	3520C	
280-114941-2 - DL	7-S	Total/NA	Water	3520C	
280-114941-3	11-S	Total/NA	Water	3520C	
280-114941-4	11-I	Total/NA	Water	3520C	
280-114941-5 - DL	12-I	Total/NA	Water	3520C	
280-114941-5	12-I	Total/NA	Water	3520C	
280-114941-6	W-23	Total/NA	Water	3520C	
280-114941-7	17-AS	Total/NA	Water	3520C	
280-114941-8	17-AI	Total/NA	Water	3520C	
280-114941-9	W-24	Total/NA	Water	3520C	
280-114941-10	W-25	Total/NA	Water	3520C	
280-114941-11	W-26	Total/NA	Water	3520C	
280-114941-12	W-29	Total/NA	Water	3520C	
280-114941-13	W-32	Total/NA	Water	3520C	
280-114941-14	ZIPPO	Total/NA	Water	3520C	
280-114941-15	13-S	Total/NA	Water	3520C	
280-114941-16	13-I	Total/NA	Water	3520C	
280-114941-16 - DL	13-I	Total/NA	Water	3520C	
280-114941-17	20-I	Total/NA	Water	3520C	
280-114941-18	BLIND	Total/NA	Water	3520C	
280-114941-19	EQUIPMENT CHECK	Total/NA	Water	3520C	
MB 280-431800/1-A	Method Blank	Total/NA	Water	3520C	
LCS 280-431800/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 280-431800/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 432255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-114941-1	6 I	Total/NA	Water	8270C LL	431800
280-114941-2	7-S	Total/NA	Water	8270C LL	431800
280-114941-4	11-I	Total/NA	Water	8270C LL	431800
280-114941-5	12-I	Total/NA	Water	8270C LL	431800
280-114941-6	W-23	Total/NA	Water	8270C LL	431800
280-114941-7	17-AS	Total/NA	Water	8270C LL	431800
280-114941-8	17-AI	Total/NA	Water	8270C LL	431800
280-114941-9	W-24	Total/NA	Water	8270C LL	431800
280-114941-10	W-25	Total/NA	Water	8270C LL	431800
280-114941-11	W-26	Total/NA	Water	8270C LL	431800
280-114941-12	W-29	Total/NA	Water	8270C LL	431800
280-114941-13	W-32	Total/NA	Water	8270C LL	431800
280-114941-14	ZIPPO	Total/NA	Water	8270C LL	431800
280-114941-15	13-S	Total/NA	Water	8270C LL	431800
280-114941-16	13-I	Total/NA	Water	8270C LL	431800
280-114941-17	20-I	Total/NA	Water	8270C LL	431800
280-114941-18	BLIND	Total/NA	Water	8270C LL	431800
280-114941-19	EQUIPMENT CHECK	Total/NA	Water	8270C LL	431800
MB 280-431800/1-A	Method Blank	Total/NA	Water	8270C LL	431800
LCS 280-431800/2-A	Lab Control Sample	Total/NA	Water	8270C LL	431800
LCSD 280-431800/3-A	Lab Control Sample Dup	Total/NA	Water	8270C LL	431800

GC/MS Semi VOA (Continued)

Analysis Batch: 432641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-114941-2 - DL	7-S	Total/NA	Water	8270C LL	431800
280-114941-3	11-S	Total/NA	Water	8270C LL	431800
280-114941-5 - DL	12-I	Total/NA	Water	8270C LL	431800
280-114941-16 - DL	13-I	Total/NA	Water	8270C LL	431800

Lab Chronicle

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-114941-1

Client Sample ID: 6 I

Lab Sample ID: 280-114941-1
Date Collected: 09/27/18 14:11
Matrix: Water
Date Received: 09/29/18 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1053.4 mL	2 mL	431800	10/02/18 18:34	AJP	TAL DEN
Total/NA	Analysis	8270C LL		1			432255	10/05/18 20:50	MKW	TAL DEN

Client Sample ID: 7-S

Lab Sample ID: 280-114941-2
Date Collected: 09/27/18 14:42
Matrix: Water
Date Received: 09/29/18 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1053.4 mL	2 mL	431800	10/02/18 18:34	AJP	TAL DEN
Total/NA	Analysis	8270C LL		1			432255	10/05/18 21:12	MKW	TAL DEN
Total/NA	Prep	3520C	DL		1053.4 mL	2 mL	431800	10/02/18 18:34	AJP	TAL DEN
Total/NA	Analysis	8270C LL	DL	40			432641	10/09/18 22:47	MKW	TAL DEN

Client Sample ID: 11-S

Lab Sample ID: 280-114941-3
Date Collected: 09/27/18 10:35
Matrix: Water
Date Received: 09/29/18 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1053.2 mL	2 mL	431800	10/02/18 18:34	AJP	TAL DEN
Total/NA	Analysis	8270C LL		1			432641	10/09/18 23:08	MKW	TAL DEN

Client Sample ID: 11-I

Lab Sample ID: 280-114941-4
Date Collected: 09/27/18 11:00
Matrix: Water
Date Received: 09/29/18 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1054.5 mL	2 mL	431800	10/02/18 18:34	AJP	TAL DEN
Total/NA	Analysis	8270C LL		1			432255	10/05/18 21:54	MKW	TAL DEN

Client Sample ID: 12-I

Lab Sample ID: 280-114941-5
Date Collected: 09/27/18 08:58
Matrix: Water
Date Received: 09/29/18 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1055.6 mL	2 mL	431800	10/02/18 18:34	AJP	TAL DEN
Total/NA	Analysis	8270C LL		1			432255	10/05/18 22:15	MKW	TAL DEN
Total/NA	Prep	3520C	DL		1055.6 mL	2 mL	431800	10/02/18 18:34	AJP	TAL DEN
Total/NA	Analysis	8270C LL	DL	4			432641	10/09/18 23:30	MKW	TAL DEN

Lab Chronicle

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-114941-1

Client Sample ID: W-23
Date Collected: 09/27/18 09:27
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1055.2 mL	2 mL	431800	10/02/18 18:34	AJP	TAL DEN
Total/NA	Analysis	8270C LL		1			432255	10/05/18 22:36	MKW	TAL DEN

Client Sample ID: 17-AS
Date Collected: 09/26/18 10:25
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1048.2 mL	2 mL	431800	10/02/18 18:34	AJP	TAL DEN
Total/NA	Analysis	8270C LL		1			432255	10/05/18 22:58	MKW	TAL DEN

Client Sample ID: 17-AI
Date Collected: 09/26/18 10:01
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1054.8 mL	2 mL	431800	10/02/18 18:34	AJP	TAL DEN
Total/NA	Analysis	8270C LL		1			432255	10/05/18 23:19	MKW	TAL DEN

Client Sample ID: W-24
Date Collected: 09/26/18 11:00
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1053.8 mL	2 mL	431800	10/02/18 18:34	AJP	TAL DEN
Total/NA	Analysis	8270C LL		1			432255	10/05/18 23:40	MKW	TAL DEN

Client Sample ID: W-25
Date Collected: 09/26/18 14:31
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1054.9 mL	2 mL	431800	10/02/18 18:34	AJP	TAL DEN
Total/NA	Analysis	8270C LL		1			432255	10/06/18 00:01	MKW	TAL DEN

Client Sample ID: W-26
Date Collected: 09/26/18 13:55
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1055 mL	2 mL	431800	10/02/18 18:34	AJP	TAL DEN
Total/NA	Analysis	8270C LL		1			432255	10/06/18 00:23	MKW	TAL DEN

Lab Chronicle

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-114941-1

Client Sample ID: W-29
Date Collected: 09/26/18 13:29
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1051.8 mL	2 mL	431800	10/02/18 18:34	AJP	TAL DEN
Total/NA	Analysis	8270C LL		1			432255	10/06/18 00:44	MKW	TAL DEN

Client Sample ID: W-32
Date Collected: 09/26/18 11:37
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1054.9 mL	2 mL	431800	10/02/18 18:34	AJP	TAL DEN
Total/NA	Analysis	8270C LL		1			432255	10/06/18 01:05	MKW	TAL DEN

Client Sample ID: ZIPPO
Date Collected: 09/26/18 14:00
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1055.7 mL	2 mL	431800	10/02/18 18:34	AJP	TAL DEN
Total/NA	Analysis	8270C LL		1			432255	10/06/18 01:26	MKW	TAL DEN

Client Sample ID: 13-S
Date Collected: 09/26/18 15:35
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1044.6 mL	2 mL	431800	10/02/18 18:34	AJP	TAL DEN
Total/NA	Analysis	8270C LL		1			432255	10/06/18 01:47	MKW	TAL DEN

Client Sample ID: 13-I
Date Collected: 09/26/18 15:55
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1054 mL	2 mL	431800	10/02/18 18:34	AJP	TAL DEN
Total/NA	Analysis	8270C LL		1			432255	10/06/18 02:09	MKW	TAL DEN
Total/NA	Prep	3520C	DL		1054 mL	2 mL	431800	10/02/18 18:34	AJP	TAL DEN
Total/NA	Analysis	8270C LL	DL	10			432641	10/09/18 23:51	MKW	TAL DEN

Client Sample ID: 20-I
Date Collected: 09/26/18 16:13
Date Received: 09/29/18 08:50

Lab Sample ID: 280-114941-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1052.5 mL	2 mL	431800	10/02/18 18:34	AJP	TAL DEN

Lab Chronicle

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-114941-1

Client Sample ID: 20-I

Lab Sample ID: 280-114941-17

Date Collected: 09/26/18 16:13
Matrix: Water
Date Received: 09/29/18 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270C LL		1			432255	10/06/18 02:30	MKW	TAL DEN

Client Sample ID: BLIND

Lab Sample ID: 280-114941-18

Date Collected: 09/26/18 17:00
Matrix: Water
Date Received: 09/29/18 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1038.3 mL	2 mL	431800	10/02/18 18:34	AJP	TAL DEN
Total/NA	Analysis	8270C LL		1			432255	10/06/18 02:51	MKW	TAL DEN

Client Sample ID: EQUIPMENT CHECK

Lab Sample ID: 280-114941-19

Date Collected: 09/27/18 15:00
Matrix: Water
Date Received: 09/29/18 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1056.9 mL	2 mL	431800	10/02/18 18:34	AJP	TAL DEN
Total/NA	Analysis	8270C LL		1			432255	10/06/18 03:12	MKW	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-114941-1

Laboratory: TestAmerica Denver

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Oregon	NELAP	10	4025	01-08-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270C LL	3520C	Water	2,4,5-Trichlorophenol
8270C LL	3520C	Water	2,4,6-Trichlorophenol
8270C LL	3520C	Water	2,4-Dichlorophenol
8270C LL	3520C	Water	2,4-Dimethylphenol
8270C LL	3520C	Water	2,4-Dinitrophenol
8270C LL	3520C	Water	2,6-Dichlorophenol
8270C LL	3520C	Water	2-Chlorophenol
8270C LL	3520C	Water	2-Methylphenol
8270C LL	3520C	Water	2-Nitrophenol
8270C LL	3520C	Water	3 & 4 Methylphenol
8270C LL	3520C	Water	4-Chloro-3-methylphenol
8270C LL	3520C	Water	4-Methylphenol
8270C LL	3520C	Water	4-Nitrophenol
8270C LL	3520C	Water	Pentachlorophenol
8270C LL	3520C	Water	Phenol

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Scott Thielke	Lab PM: Ide, Jamie N	Carrier Tracking No(s):	COC No:
Client Contact: Scott Thielke	Phone: 541.689.3801 (Ext. 4)	E-Mail: jamie.ide@testamericainc.com		Page: Page 1 of 2
Company: J. H. Baxter & Co.		Analysis Requested		Job #:
Address: PO BOX 23138	Due Date Requested:			
City: Eugene	TAT Requested (days): 10 Business Days			
State, Zip: OR, 97402				
Phone: 541-689-3801 fax 541-689-8303	PO #:			
Email: sthielke@jhbaxter.com	WO #:			
Project Name:	Project #: 28005894			
Site: JH Baxter Eugene, Or	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270C - Phenols (2X1L Amber)	200.8 - Metals (As, Cr, Cu, Zn) (1x500mL Poly)	200.8 - Dissolved Metals (As, Cr, Cu, Zn) (1x500mL Po	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	D		
6 I	9/27/18	1411	G	W	N	N	2				
7-S	9/27/18	1442	G	W	N	N	2				
11-S	9/27/18	1035	G	W	N	N	2				
11-I	9/27/18	1100	G	W	N	N	2				
12-I	9/27/18	858	G	W	N	N	2				
W-23	9/27/18	0927	G	W	N	N	2				
17-AS	9/26/18	1025	G	W	N	N	2				
17-AI	9/26/18	1001	G	W	N	N	2				
W-24	9/26/18	1100	G	W	N	N	2				20 Total bottles
W-25	9/26/18	1431	G	W	N	N	2				

280-114941 Chain of Custody

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ■ *Archive For* ______ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Scott Thielke	9-28-18 0830	JH Baxter		9/29/18 0850	TADEN

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.3, 0.4, -0.1, 0.3 +0.8

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information

Client Contact: Scott Thielke	Sampler: Scott Thielke	Lab PM: Ide, Jamie	Carrier Tracking No(s):	COC No:
	Phone: 541.689.3801 (Ext. 4)	E-Mail: jamie.ide@testamericainc.com		Page: Page 2 of 2
Company: J. H. Baxter & Co.				Job #:
Address: PO BOX 23138	Due Date Requested:			
City: Eugene	TAT Requested (days): 10 Business Days			
State, Zip: OR 97402				
Phone: 541-689-3801 fax 541-689-8303	PO #:			
Email: sthielke@jhbaxter.com	WO #:			
Project Name:	Project #: 28005894			
Site: JH Baxter Eugene, Or	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270C - Phenols (2X1L Amber)	200.8 - Metals (As, Cr, Cu, Zn) (1x500mL Poly)	200.8 - Dissolved Metals (As, Cr, Cu, Zn) (1x500mL Po	Total Number of containers	Special Instructions/Note:
				Preservation Code:			N	D	D		
W-26	9/26/18	1355	G	W	N	N	2				
W-29	9/26/18	1329	G	W	N	N	2				
W-32	9/26/18	1137	G	W	N	N	2				
ZIPPO	9/26/18	1400	G	W	N	N	2				
13-S	9/26/18	1535	G	W	N	N	2				
13-I	9/26/18	1555	G	W	N	N	2				
20-I	9/26/18	1613	G	W	N	N	2				
BLIND	9/26/18	1700	G	W	N	N	2				
EQUIPMENT CHECK	9/27/18	1500	G	W	N	N	2				18 Total bottles

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ■ Archive For ______ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:	
Relinquished by: Scott Thielke (signature) Scott Thielke	Date/Time: 0830 9-28-18	Company: JH Baxter	Received by: (signature)	Date/Time: 9/29/18 0850 · Company: TADEN
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time: · Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time: · Company:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 0.3, 0.4, -0.4, 0.3 +0.8 tmbd JAe	

Login Sample Receipt Checklist

Client: J. H. Baxter & Co.

Job Number: 280-114941-1

Login Number: 114941
List Number: 1
Creator: Quint, Jessica A

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix B

JH Baxter Eugene Water Levels September 2018

Well	Depth	Level	Time	Date	Location	Notes
1 (S)	28.5	13.12	1113	9/27/2018	Office	
2 (S)	27.6	NDA			Pond	NAPL - Lock stuck
2 (I)	81.71	11.75	1125	9/27/2018	Pond	
3 (S)	33	NDA			Kiln #3	Lock stuck
4 (S)	22.3	11.84	1400	9/27/2018	Timber Incisor	
5(I)	75.5	13.53	1403	9/27/2018	Timber Incisor	
6 (I)	70	16.5	1348	9/27/2018	#85 RETORT	ANNUAL / Phenols
7 (S)	20	15.8	1349	9/27/2018	#85 RETORT	ANNUAL / Phenols
8 (I)	20.17	10.35	1124	9/27/2018	Dry Shed	NAPL
8 (S)	82.33	11.28	1137	9/27/2018	Dry Shed	
9 (S)	25	12.41	1118	9/27/2018	Pole Yard	
9 (D)	67	12	1119	9/27/2018	Pole Yard	
11 (S)	24.85	12.37	1007	9/27/2018	Light Standards	ANNUAL / Phenols
11 (I)	83	14.12	1021	9/27/2018	Light Standards	ANNUAL / Phenols
12 (I)	78.5	16.98	0835	9/27/2018	Kiln #3	ANNUAL / Phenols
12 (D)	133.75	19.16	0833	9/27/2018	Kiln #3	Discontinue sampling 2016
13 (S)	29.02	24.28	1329	9/27/2018	Pump & Treat	ANNUAL / Phenols
13 (I)	71.46	45.71	1326	9/27/2018	Pump & Treat	ANNUAL / Phenols
13 (D)	133.51	19.52	1324	9/27/2018	North Fence	
14 (I)	77.5	14.18	1109	9/26/2018	Office	
15 (S)	28	13.77	1331	9/26/2018	North Fence	
16A (S)	24.98	7.31	0938	9/26/2018	N&S LaCasa	
16A (I)	81.85	13.71	0934	9/26/2018	N&S LaCasa	Discontinue sampling 2016
17A (S)	23.67	9.2	1007	9/26/2018	N&S LaCasa	ANNUAL / Phenols
17A (I)	87.42	12.24	0941	9/26/2018	N&S LaCasa	ANNUAL / Phenols
17B (I)	84.88	13.15	1026	9/26/2018	Archie St.	
18A (S)	25.05	10.03	0935	9/27/2018	North Ditch	
18A (I)	86.81	14.63	0933	9/27/2018	North Ditch	
18B (I)	88.6	NDA			Waite St.	Lid wont come off
19 (S)	23.66	11	1032	9/26/2018	Baxter St.	
20 (I)	85	37.27	1337	9/27/2018	Pump & Treat	ANNUAL / Phenols
21 (S)	16.75	9.07	1415	9/27/2018	Tram Shed	
21 (I)	81.42	8.94	1420	9/27/2018	Tram Shed	
22 (S)	19.38	13.71	1121	9/27/2018	Haz Waste Shed	
23 (I)	55.5	15.87	0905	9/27/2018	West Fence	ANNUAL / Phenols
24 (I)	65	12.24	1040	9/26/2018	Waite St.	SEMI / ANNUAL / Phenols
25 (I)	64	11.07	1414	9/26/2018	Roosevelt@Chase	SEMI / ANNUAL / Phenols
26 (I)	79	11.03	1338	9/26/2018	Cross St.	SEMI / ANNUAL / Phenols
28 (I)	84.42	11.41	1333	9/26/2018	Cross St.	
29 (I)	74.83	10.14	1308	9/26/2018	Cross St.	SEMI / ANNUAL / Phenols
32 (I)	74	11.13	1118	9/26/2018	Hope Loop	ANNUAL / Phenols
34 (I)	76	11.73	1112	9/26/2018	Mira Ct.	
35 (I)	77	11.75	1317	9/27/2018	Whittier	
zippo						Grab sample from Zippo well
						9 OFFSITE WELLS
						7 ONSITE WELLS

Eugene Ground Water Sampling Field Log

Site: JH Baxter Eugene, OR

Date 9-27-18

Well # 6 I Well Depth: 70' Screen length: 10' Dia. 4" Casing type: S.S.

Sampling Device HORIBA Tubing Type POLY Water Level 16.5

Measuring Point T.O.C. Well Location North of 85 retort

Sampling Personell ST/WL

Time	Temp. C°	pH (+/-.1)	ORP Redox. (+/-10mv)	mS/cm Cond. (+/-3%)	NTU Turb. (+/-10%)	Diss. O2 mg/l (+/-10%)	Water Level	Notes
1353	17.47	8.84	224	.336	0.0	6.61		
1356	15.57	7.9	257	.351	0.0	2.32		
1359	15.54	7.96	272	.351	0.0	1.76		
1402	15.36	7.17	280	.352	0.0	1.49		
1405	15.32	7.04	284	.352	0.0	1.37		
1408	15.32	6.99	285	.352	0.0	1.29		
1411								SAMPLE TAKEN

Samples Collected

PAH 8270c	Phenols	Total Cu,Cr,Zn,As	Diss. Cu,Cr,Zn,As (filtered)
	✓		

Eugene Ground Water Sampling Field Log

Site: JH Baxter Eugene, OR

Date 9-27-18

Well # 7 S Well Depth: 20' Screen length: 10' Dia. 4" Casing type: PVC

Sampling Device HORIBA Tubing Type POLY Water Level 15.8

Measuring Point T.O.C. Well Location North of 85 retort

Sampling Personell ST/WK

Time	Temp. C°	pH (+/-.1)	ORP Redox. (+/-10mv)	mS/cm Cond. (+/-3%)	NTU Turb. (+/-10%)	Diss. O2 mg/l (+/-10%)	Water Level	Notes
1418	15.63	6.68	49	.490	315	1.59		
1421	16.5	6.23	77	.626	107	1.49		
1424	17.06	6.31	70	.646	93.8	1.15		
1427	17.59	6.35	60	.667	38.7	1.09		
1430	18.11	6.39	44	.681	10.8	1.05		
1433	18.9	6.54	-9	.707	3.8	.99		
1436	19.06	6.58	-15	.713	3.1	.97		
1439	19.1	6.60	-23	.715	3.9	.94		
1442								SAMPLE TIME

Samples Collected

PAH 8270c	Phenols	Total Cu,Cr,Zn,As	Diss. Cu,Cr,Zn,As (filtered)
	✓		

Eugene Ground Water Sampling Field Log

Site: JH Baxter Eugene, OR Date 9-27-18

Well # 11 S Well Depth: 25' Screen length: 10' Dia. 4" Casing type: PVC

Sampling Device HORIBA Tubing Type POLY Water Level 12.37

Measuring Point T.O.C. Well Location South of Light standards

Sampling Personell ST/WK

Time	Temp. C°	pH (+/-.1)	ORP Redox. (+/-10mv)	mS/cm Cond. (+/-3%)	NTU Turb. (+/-10%)	Diss. O2 mg/l (+/-10%)	Water Level	Notes
1010	16.91	8.51	111	.532	29.9	5.0		
1013	16.31	7.9	17	.551	16.4	4.42		
1016	16.17	7.8	8	.570	10.1	3.53		
1020	16.19	7.77	4	.582	6.2	3.06		
1023	16.21	7.75	-1	.594	2.8	2.57		
1026	16.23	7.74	-3	.601	1.5	2.36		
1029	16.22	7.79	-7	.606	.8	2.13		
1032	16.23	7.77	-9	.607	.6	2.07		
1035								SAMPLE TAKEN

Samples Collected PAH 8270c Phenols ✓ Total Cu,Cr,Zn,As Diss. Cu,Cr,Zn,As (filtered)

Eugene Ground Water Sampling Field Log

Site: JH Baxter Eugene, OR

Date 9-27-18

Well # 11 I Well Depth: 94' Screen length: 10' Dia. 4" Casing type: PVC

Sampling Device HORIBA Tubing Type POLY Water Level 14.12

Measuring Point T.O.C. Well Location South of Light standards

Sampling Personell ST/WK

Time	Temp. C°	pH (+/-.1)	ORP Redox. (+/-10mv)	mS/cm Cond. (+/-3%)	NTU Turb. (+/-10%)	Diss. O2 mg/l (+/-10%)	Water Level	Notes
~~1042~~	~~20.47~~	~~6.87~~	~~219~~	~~0.001~~	~~150~~	~~6.4~~		
1042	18.39	8.75	155	.186	0.0	3.14		
1045	16.69 ~~18.39~~	8.31	171	.186	0.0	2.17		
1048	16.12	8.07	174	.186	0.0	1.89		
1051	16.13	8.03	171	.187	0.0	1.76		
1054	16.12	7.99	172	.187	0.0	1.72		
1057	16.09	8.02	170	.187	0.0	1.68		
1100								SAMPLE TAKEN

Samples Collected	PAH 8270c	Phenols	Total Cu,Cr,Zn,As	Diss. Cu,Cr,Zn,As (filtered)
		✓		

Eugene Ground Water Sampling Field Log

Site: JH Baxter Eugene, OR

Date 9-27-18

Well # 12 I Well Depth: 79' Screen length: 10' Dia. 4" Casing type: PVC

Sampling Device HORIBA Tubing Type POLY Water Level 16.98

Measuring Point T.O.C. Well Location South Side Kiln #3

Sampling Personell ST/WK

Time	Temp. C°	pH (+/-.1)	ORP Redox. (+/-10mv)	mS/cm Cond. (+/-3%)	NTU Turb. (+/-10%)	Diss. O2 mg/l (+/-10%)	Water Level	Notes
0840	14.9	8.43	197	.332	5.4	5.85		
0843	14.75	7.8	218	.459	0.0	2.23		
0846	14.78	7.72	219	.444	0.0	1.93		
0849	14.83	7.63	220	.442	0.0	1.79		
0852	14.83	7.62	220	.442	0.0	1.68		
0855	14.83	7.62	220	.442	0.0	1.60		
0858								SAMPLE TAKEN

Samples Collected	PAH 8270c	Phenols	Total Cu,Cr,Zn,As	Diss. Cu,Cr,Zn,As (filtered)
		✓		

Eugene Ground Water Sampling Field Log

Site: JH Baxter Eugene, OR Date 9-26-18

Well # 13 S Well Depth: 28' Screen length: 10' Dia. 4" Casing type: PVC

Sampling Device HORIBA Tubing Type POLY Water Level 34.28

Measuring Point T.O.C. Well Location Pump & Treat

Sampling Personell ST/WK

Time	Temp. C°	pH (+/-.1)	ORP Redox. (+/-10mv)	mS/cm Cond. (+/-3%)	NTU Turb. (+/-10%)	Diss. O2 mg/l (+/-10%)	Water Level	Notes
1520	19.38	8.18	91	0.388	0.0	7.98		
1523	18.88	7.70	67	0.390	0.0	5.62		
1526	18.8	7.46	66	.390	0.0	4.69		
1529	18.8	7.34	68	.389	0.0	4.26		
1532	18.77	7.28	68	.389	0.0	4.0		
1535								SAMPLE TIME

Samples Collected

PAH 8270c	Phenols	Total Cu,Cr,Zn,As	Diss. Cu,Cr,Zn,As (filtered)
	✓		

Eugene Ground Water Sampling Field Log

Site: JH Baxter Eugene, OR Date 9-26-18

Well # 13 I Well Depth: 70' Screen length: 10' Dia. 4" Casing type: PVC

Sampling Device HORIBA Tubing Type POLY Water Level 45.71

Measuring Point T.O.C. Well Location Pump & Treat

Sampling Personell ST/WW

Time	Temp. C°	pH (+/-.1)	ORP Redox. (+/-10mv)	mS/cm Cond. (+/-3%)	NTU Turb. (+/-10%)	Diss. O2 mg/l (+/-10%)	Water Level	Notes
1540	16.06	7.25	73	.533	0.0	5.18		
1543	1583	733	84	.535	0.0	4.35		
1546	15.78	7.28	90	.536	0.0	402		
1546	15.72	7.19	99	.536	0.0	3.65		
1549	15.76	7.16	100	.536	0.0	3.57		
1552	1574	7.15	102	.536	0.0	3.49		
1555								SAMPLE TIME

Samples Collected	PAH 8270c	Phenols	Total Cu,Cr,Zn,As	Diss. Cu,Cr,Zn,As (filtered)
		✓		

Eugene Ground Water Sampling Field Log

Site: JH Baxter Eugene, OR

Date 9-26-18

Well # 17 A S Well Depth: 24' Screen length: 10' Dia. 2" Casing type: PVC

Sampling Device HORIBA Tubing Type POLY Water Level 9.2

Measuring Point T.O.C. Well Location La Casa St.

Sampling Personell ST | WL

Time	Temp. C°	pH (+/-.1)	ORP Redox. (+/-10mv)	mS/cm Cond. (+/-3%)	NTU Turb. (+/-10%)	Diss. O2 mg/l (+/-10%)	Water Level	Notes
1010	18.89	8.44	175	.260	10.1	4.76		
1013	18.17	8.02	194	.289	33.5	4.34		
1016	18.24	7.87	201	.291	31.0	4.11		
1019	17.89	7.75	208	.293	26.7	4.27		
1022	17.5	7.67	211	.301	24.3	4.09		
1025								SAMPLE TIME

Samples Collected

PAH 8270c	Phenols	Total Cu,Cr,Zn,As	Diss. Cu,Cr,Zn,As (filtered)
	✓		

Eugene Ground Water Sampling Field Log

Site: JH Baxter Eugene, OR

Date 9-26-18

Well # 17 A I Well Depth: 82' Screen length: 10' Dia. 4" Casing type: PVC

Sampling Device HORIBA Tubing Type POLY Water Level 12.24

Measuring Point T.O.C. Well Location La Casa St.

Sampling Personell ST/WK

Time	Temp. C°	pH (+/-.1)	ORP Redox. (+/-10mv)	mS/cm Cond. (+/-3%)	NTU Turb. (+/-10%)	Diss. O2 mg/l (+/-10%)	Water Level	Notes
0947	15.86	8.52	184	.439	1.1	9.07		
0950	15.23	8.13	185	.477	2.1	7.04		
0953	15.2	7.93	182	476	1.7	5.75		
0956	15.23	7.92	174	.476	1.1	4.87		
0959	15.25	7.85	171	.476	1.0	4.48		
								SAMPLE TAKEN
1001								

Samples Collected

PAH 8270c	Phenols	Total Cu,Cr,Zn,As	Diss. Cu,Cr,Zn,As (filtered)
	✓		

Eugene Ground Water Sampling Field Log

Site: JH Baxter Eugene, OR

Date 9-26-18

Well # 20 I Well Depth: 85' Screen length: N/A Dia. 6" Casing type: PVC

Sampling Device HORIBA Tubing Type POLY Water Level 37.27

Measuring Point T.O.C. Well Location Pump & Treat

Sampling Personell ST/WK

Time	Temp. C°	pH (+/-.1)	ORP Redox. (+/-10mv)	mS/cm Cond. (+/-3%)	NTU Turb. (+/-10%)	Diss. O2 mg/l (+/-10%)	Water Level	Notes
1558	15.27	7.62	99	.497	0.0	1.12		
1601	15.17	7.46	110	.497	0.0	1.06		
1603	15.15	7.41	116	.497	0.0	1.04		
1607	15.18	7.41	118	.497	0.0	1.03		
1610	15.13	7.44	120	.497	0.0	1.03		
1613								SAMPLE TIME
1700	9-26	BLIND TAKEN @ THIS WELL						

Samples Collected

PAH 8270c	Phenols	Total Cu,Cr,Zn,As	Diss. Cu,Cr,Zn,As (filtered)
	✓		

Eugene Ground Water Sampling Field Log

Site: JH Baxter Eugene, OR

Date 09/27/18

Well # 23 Well Depth: 89' Screen length: 10' Dia. 4" Casing type: PVC

Sampling Device HORIBA Tubing Type POLY Water Level 15.87

Measuring Point T.O.C. Well Location Pump & Treat

Sampling Personell S. Thielke / WK

Time	Temp. C°	pH (+/-.1)	ORP Redox. (+/-10mv)	mS/cm Cond. (+/-3%)	NTU Turb. (+/-10%)	Diss. O2 mg/l (+/-10%)	Water Level	Notes
0915	15.51	8.3	224	.650	0.0	5.24		
0918	15.52	8.34	226	.654	0.0	3.92		
0921	15.26	8.27	230	.654	0.0	5.76		
0924	15.22	8.25	232	.654	0.0	5.59		
0927								SAMPLE TAKEN

Samples Collected

PAH 8270c	Phenols	Total Cu,Cr,Zn,As	Diss. Cu,Cr,Zn,As (filtered)
	✓		

Eugene Ground Water Sampling Field Log

Site: JH Baxter Eugene, OR

Date 9-26-18

Well # 24 Well Depth: 65' Screen length: 10' Dia. 4" Casing type: PVC

Sampling Device (for IBA Tubing Type POLY Water Level 12.24

Measuring Point T.O.C. Well Location Waite Street

Sampling Personell ST/WK

Time	Temp. C°	pH (+/-.1)	ORP Redox. (+/-10mv)	mS/cm Cond. (+/-3%)	NTU Turb. (+/-10%)	Diss. O2 mg/l (+/-10%)	Water Level	Notes
1045	1441	7.87	187	.658	534	6.37		
1048	14.42	7.54	180	.658	163	4.47		
1051	14.51	7.46	167	.654	65.2	3.66		
1054	14.52	7.44	163	.652	52.1	3.44		
1057	14.42	7.4	159	.634	49.9	3.12		
1100								SAMPLE TIME

Samples Collected

PAH 8270c	Phenols	Total Cu,Cr,Zn,As	Diss. Cu,Cr,Zn,As (filtered)
	✓		

Eugene Ground Water Sampling Field Log

Site: JH Baxter Eugene, OR

Date 9-26-18

Well # 25 Well Depth: 52' Screen length: 10' Dia. 4" Casing type: PVC

Sampling Device HORIBA Tubing Type POLY Water Level

Measuring Point T.O.C. Well Location Roosevelt @ Chase

Sampling Personell ST/WK

Time	Temp. C°	pH (+/-.1)	ORP Redox. (+/-10mv)	mS/cm Cond. (+/-3%)	NTU Turb. (+/-10%)	Diss. O2 mg/l (+/-10%)	Water Level	Notes
1416	17.63	8.2	212	.697	0.3	9.38		
1419	15.46	7.87	223	.725	0.0	7.12		
1422	15.22	7.75	222	.724	0.0	5.52		
1425	15.19	7.7	220	.724	0.0	4.87		
1428	15.18	7.68	218	.723	0.0	4.59		
1431								SAMPLE TAKEN

Samples Collected

PAH 8270c	Phenols	Total Cu,Cr,Zn,As	Diss. Cu,Cr,Zn,As (filtered)
	✓		

Eugene Ground Water Sampling Field Log

Site: JH Baxter Eugene, OR

Date 9-26-18

Well # 26 Well Depth: 77' Screen length: 5' Dia. 4" Casing type: PVC

Sampling Device HORIBA Tubing Type POLY Water Level 11.03

Measuring Point T.O.C. Well Location Cross Street

Sampling Personell SR/WH

Time	Temp. C°	pH (+/-.1)	ORP Redox. (+/-10mv)	mS/cm Cond. (+/-3%)	NTU Turb. (+/-10%)	Diss. O2 mg/l (+/-10%)	Water Level	Notes
1340	16.87	7.97	229	.187	0.0	5.5		
1343	15.44	7.93	229	.220	0.0	4.75		
1346	15.14	7.54	236	.451	0.0	2.71		
1349	15.12	7.55	230	.541	0.0	1.96		
1352	15.1	7.56	227	.580	0.0	1.82		
1355								SAMPLE TAKEN

Samples Collected

PAH 8270c	Phenols	Total Cu,Cr,Zn,As	Diss. Cu,Cr,Zn,As (filtered)
	✓		

Eugene Ground Water Sampling Field Log

Site: JH Baxter Eugene, OR

Date 9-26-18

Well # 29 Well Depth: 75' Screen length: 5' Dia. 2.5" Casing type: PVC

Sampling Device HORIBA Tubing Type POLY Water Level 10.14

Measuring Point T.O.C. Well Location Cross Street

Sampling Personell ST / WK

Time	Temp. C°	pH (+/-.1)	ORP Redox. (+/-10mv)	mS/cm Cond. (+/-3%)	NTU Turb. (+/-10%)	Diss. O2 mg/l (+/-10%)	Water Level	Notes
1311	16.95	8.54	210	.222	0.0	7.32		
1314	16.25	8.07	230	.233	0.0	7.17		
1317	16.26	7.65	~~244~~	.381	0.0	6.36		
1320	16.35	7.41	248	.455	0.0	5.77		
1323	16.37	7.28	249	.485	0.0	5.38		
1326	16.35	7.24	247	.495	0.0	5.06		
329								SAMPLE TIME

Samples Collected

PAH 8270c	Phenols	Total Cu,Cr,Zn,As	Diss. Cu,Cr,Zn,As (filtered)
	✓		

Eugene Ground Water Sampling Field Log

Site: JH Baxter Eugene, OR

Date 9-26-18

Well # 32 Well Depth: 74' Screen length: 8' Dia. 2.5" Casing type: PVC

Sampling Device Horiba Tubing Type POLY Water Level 11.13

Measuring Point T.O.C. Well Location Hope Loop

Sampling Personell SR/WK

Time	Temp. C°	pH (+/-.1)	ORP Redox. (+/-10mv)	mS/cm Cond. (+/-3%)	NTU Turb. (+/-10%)	Diss. O2 mg/l (+/-10%)	Water Level	Notes
1120	16.75	8.11	186	.266	3.4	17.9		
1123	16.29	8.03	188	.268	0.0	6.58		
1126	16.1	7.89	190	.269	0.0	5.67		
1129	15.87	7.71	189	.269	0.0	3.87		
1132	15.8	7.69	187	.269	0.0	3.42		
1135	15.8	7.69	185	.269	0.0	3.21		
1137								SAMPLE TAKEN

Samples Collected

PAH 8270c	Phenols	Total Cu,Cr,Zn,As	Diss. Cu,Cr,Zn,As (filtered)
	✓		

Eugene Ground Water Sampling Field Log

Site: JH Baxter Eugene, OR

Date 9-26-18

Well # Zippo Well Depth: N/A Screen length: N/A Dia. n/a Casing type: n/a

Sampling Device WELL Tubing Type POLY Water Level N/A

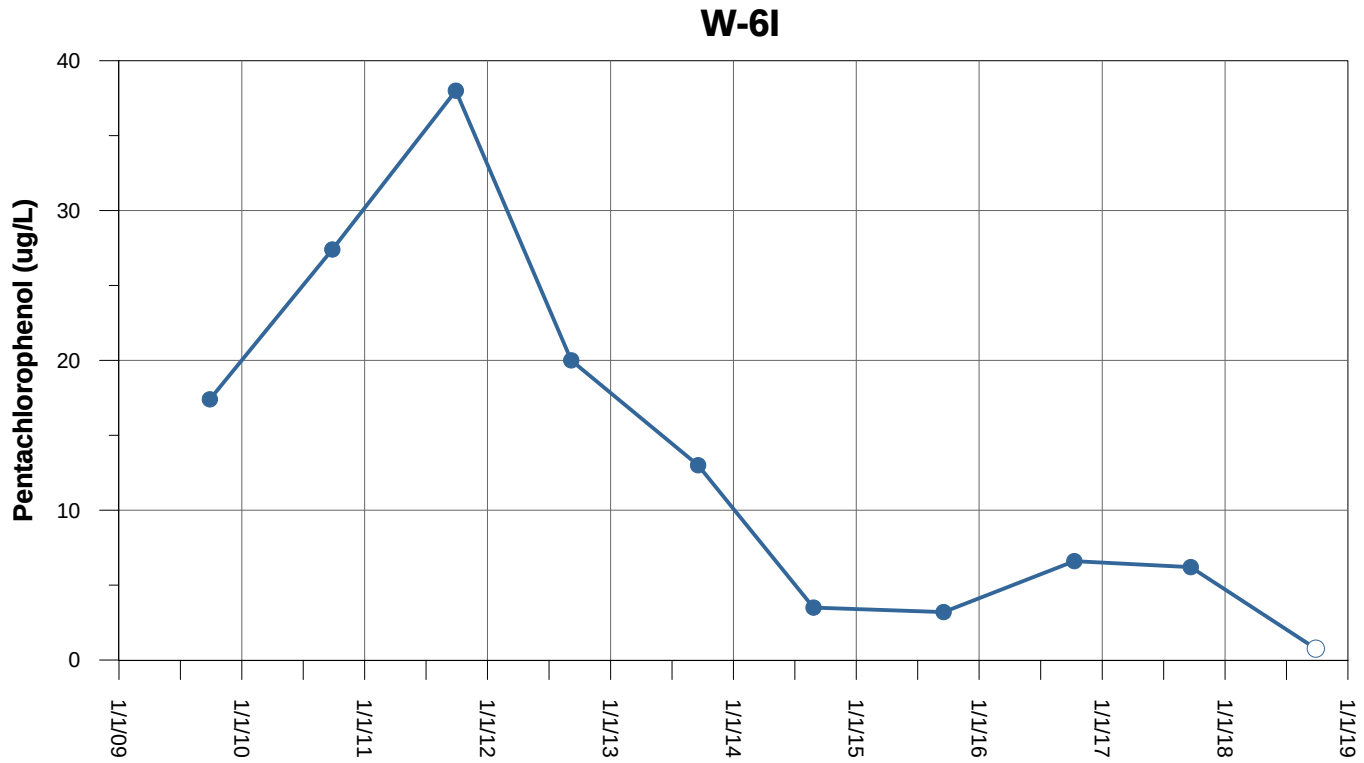
Measuring Point _____ Well Location ZIPPO LOG DUMP

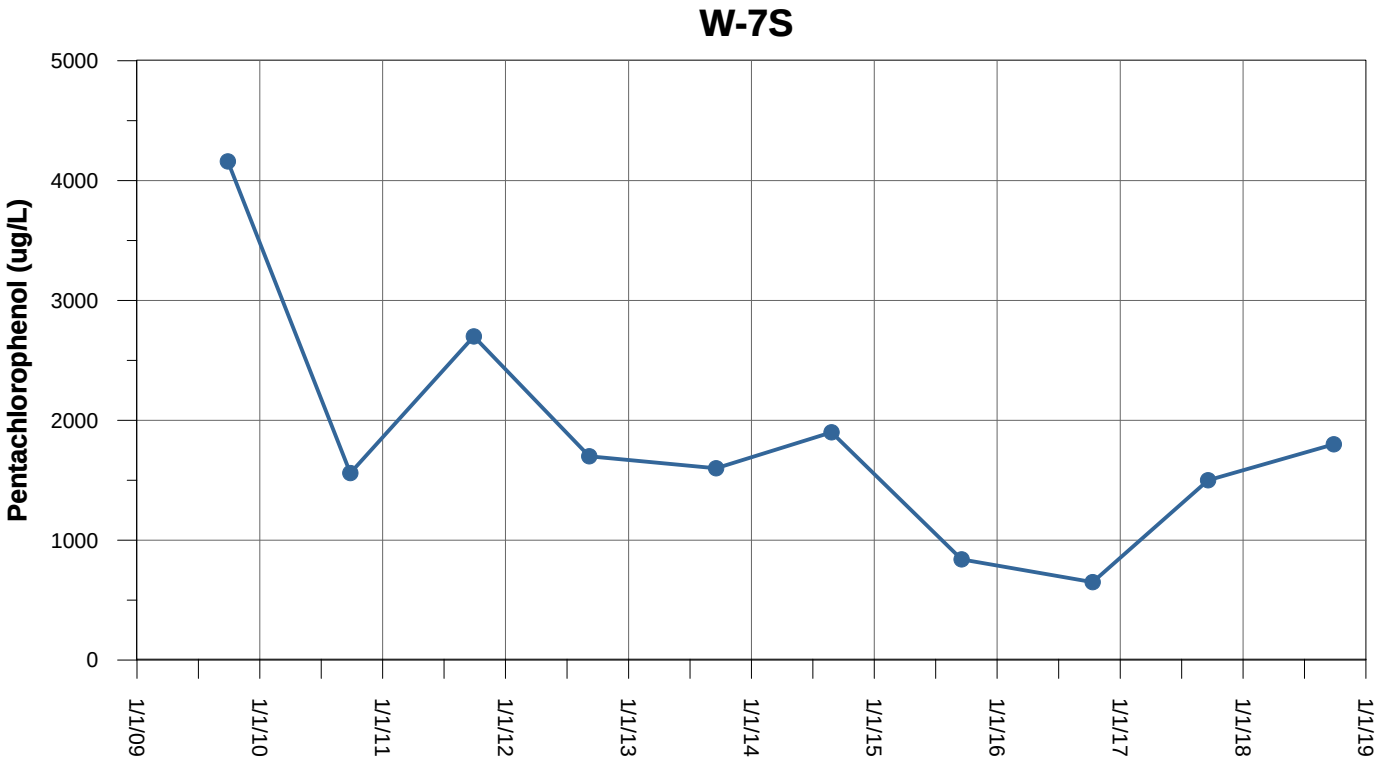
Sampling Personell ST/WK

Time	Temp. C°	pH (+/-1)	ORP Redox. (+/-10mv)	mS/cm Cond. (+/-3%)	NTU Turb. (+/-10%)	Diss. O2 mg/l (+/-10%)	Water Level	Notes
1400		TOOK SAMPLE FROM ZIPPO WELL.						

Samples Collected	PAH 8270c	Phenols	Total Cu,Cr,Zn,As	Diss. Cu,Cr,Zn,As (filtered)
		✓		

Appendix C





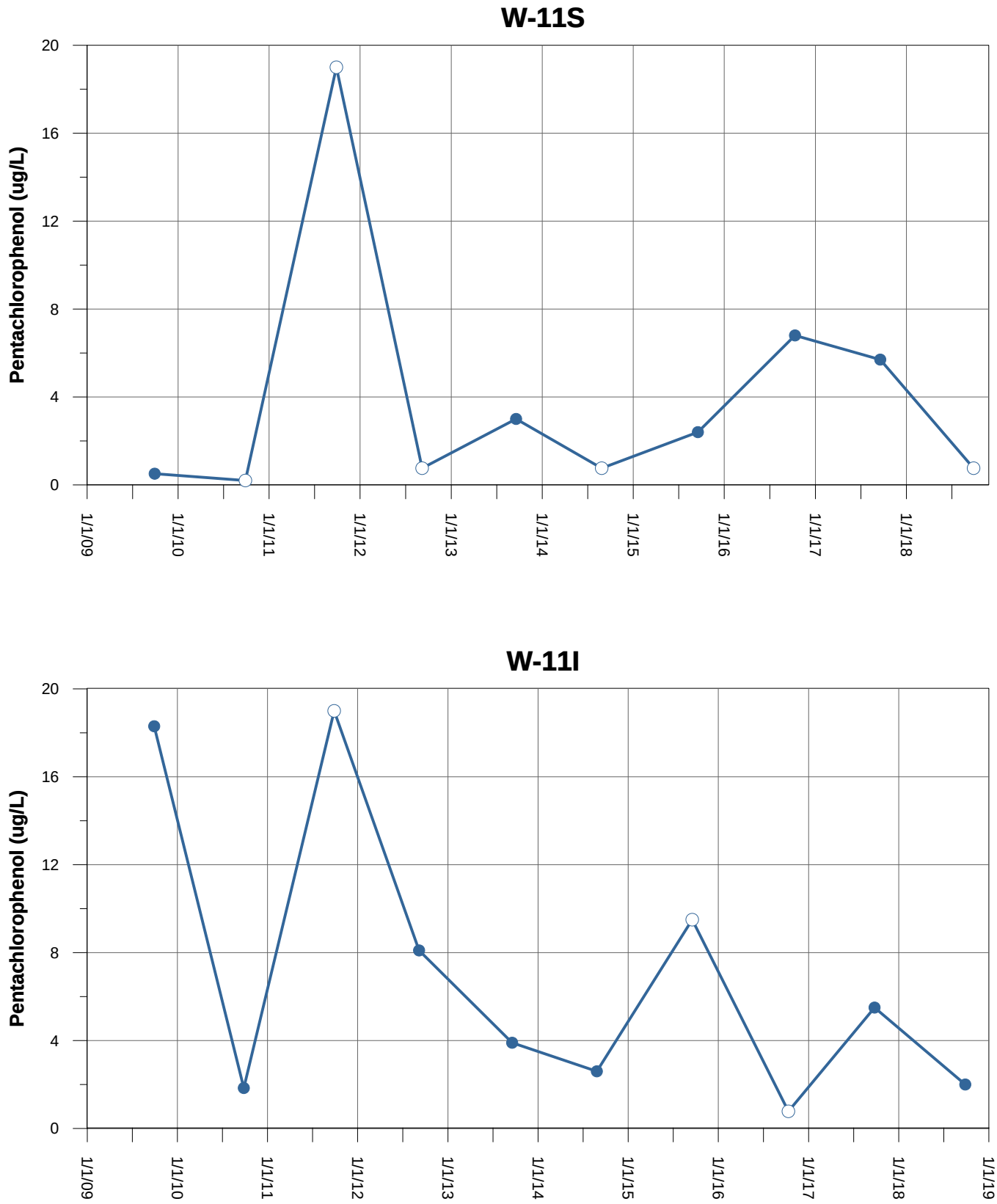
Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

FIGURE C-1
Pentachlorophenol Groundwater Concentrations in W-6I and W-7S
J.H. Baxter Wood Treating Facility
Eugene, Oregon

Notes:
ug/L = microgram per liter

GSI Water Solutions, Inc.



Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

FIGURE C-2

Pentachlorophenol Groundwater Concentrations in W-11S and W-11I

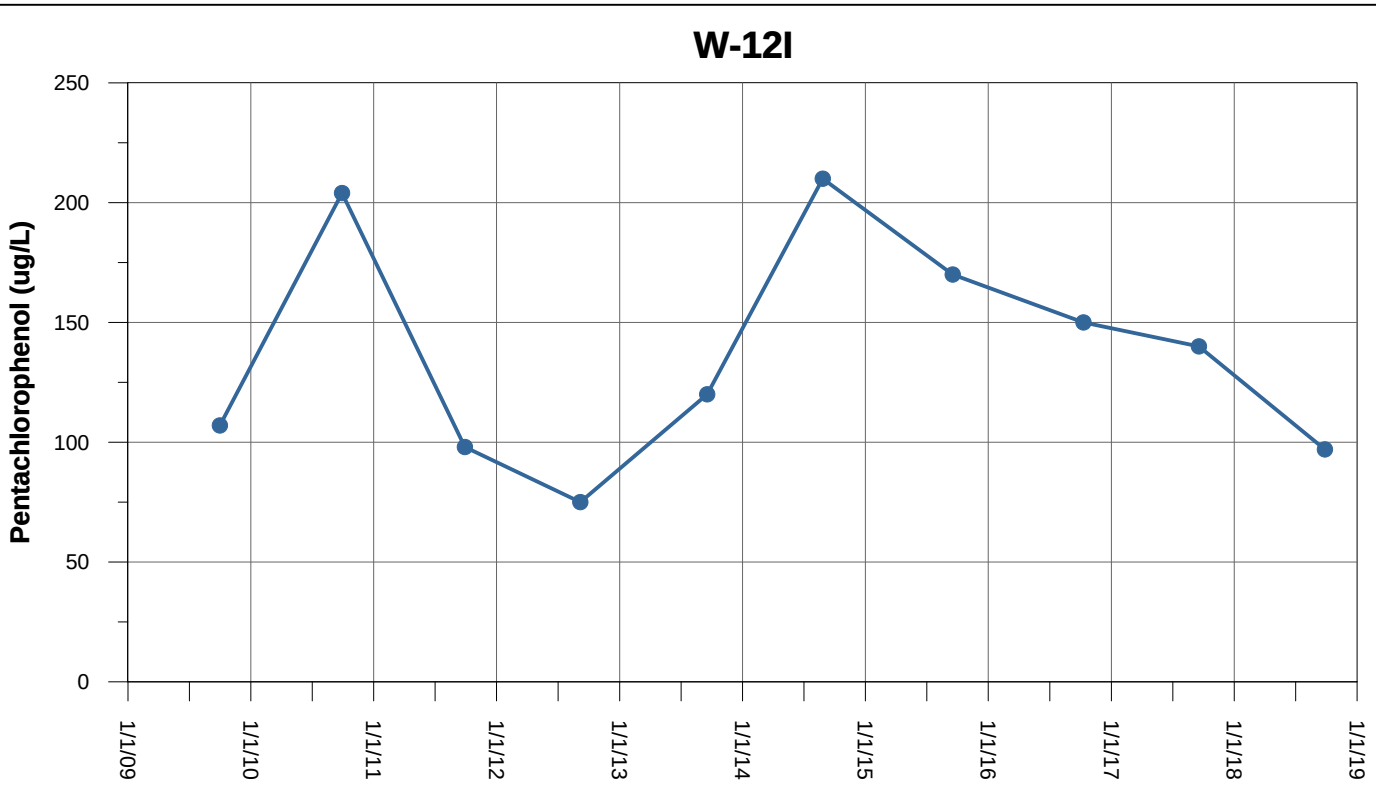
J.H. Baxter Wood Treating Facility

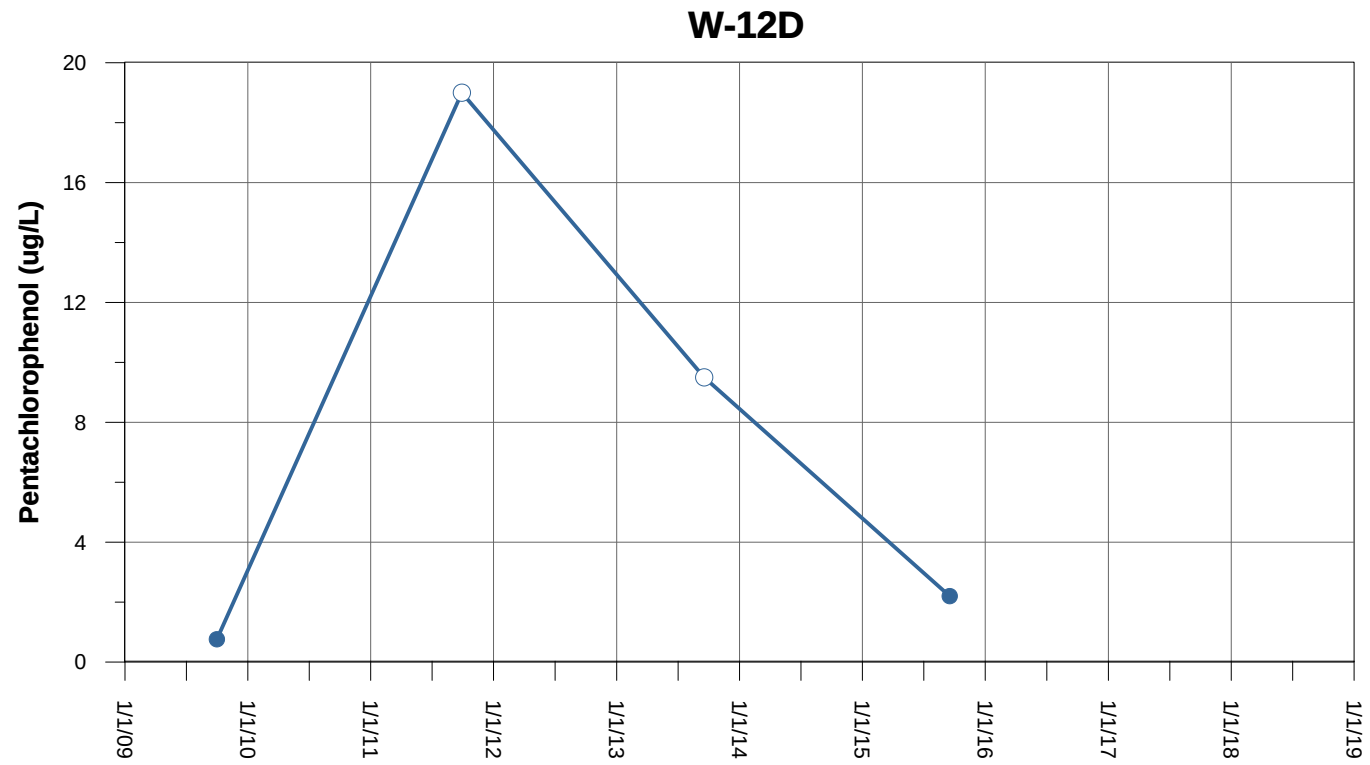
Eugene, Oregon

Notes:

ug/L = microgram per liter

GSI Water Solutions, Inc.





Legend:

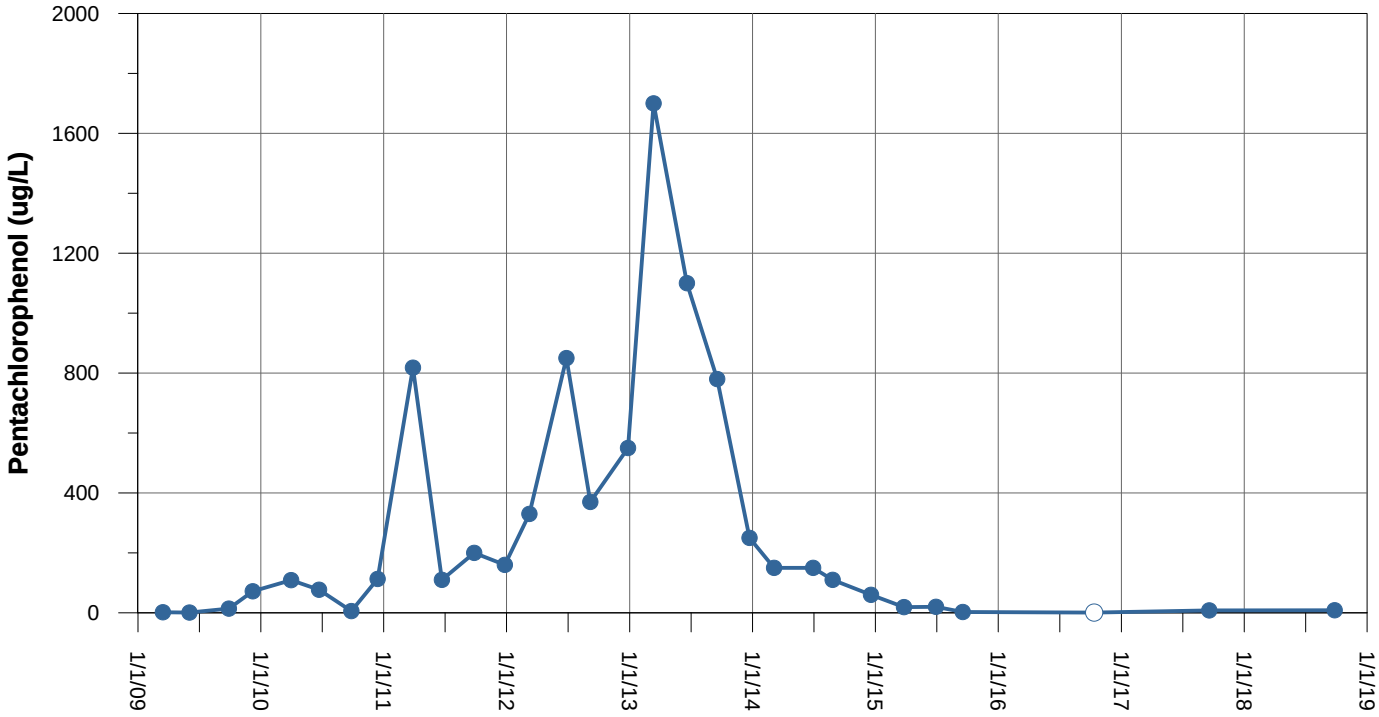
- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

FIGURE C-3
Pentachlorophenol Groundwater Concentrations in W-12I and W-12D
J.H. Baxter Wood Treating Facility
Eugene, Oregon

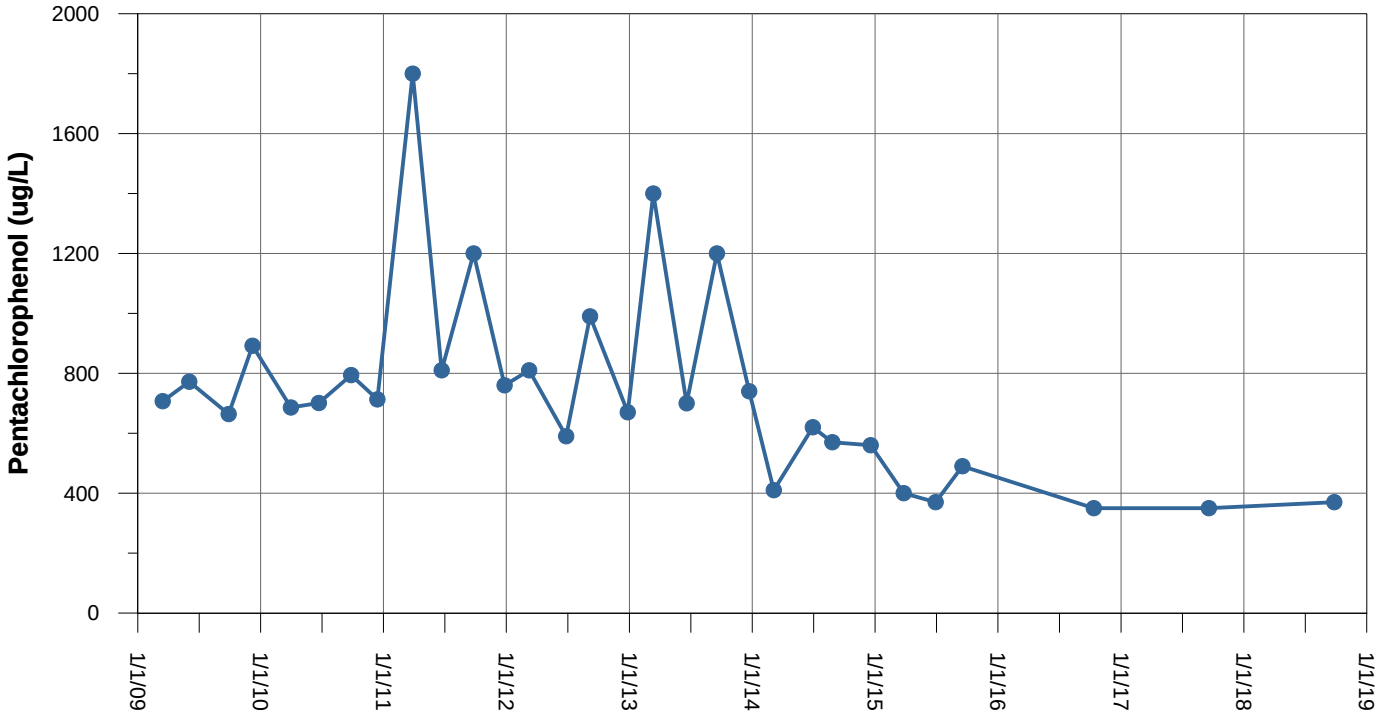
Notes:
ug/L = microgram per liter
W-12D sampled every other year.

GSI Water Solutions, Inc.

W-13S



W-13I



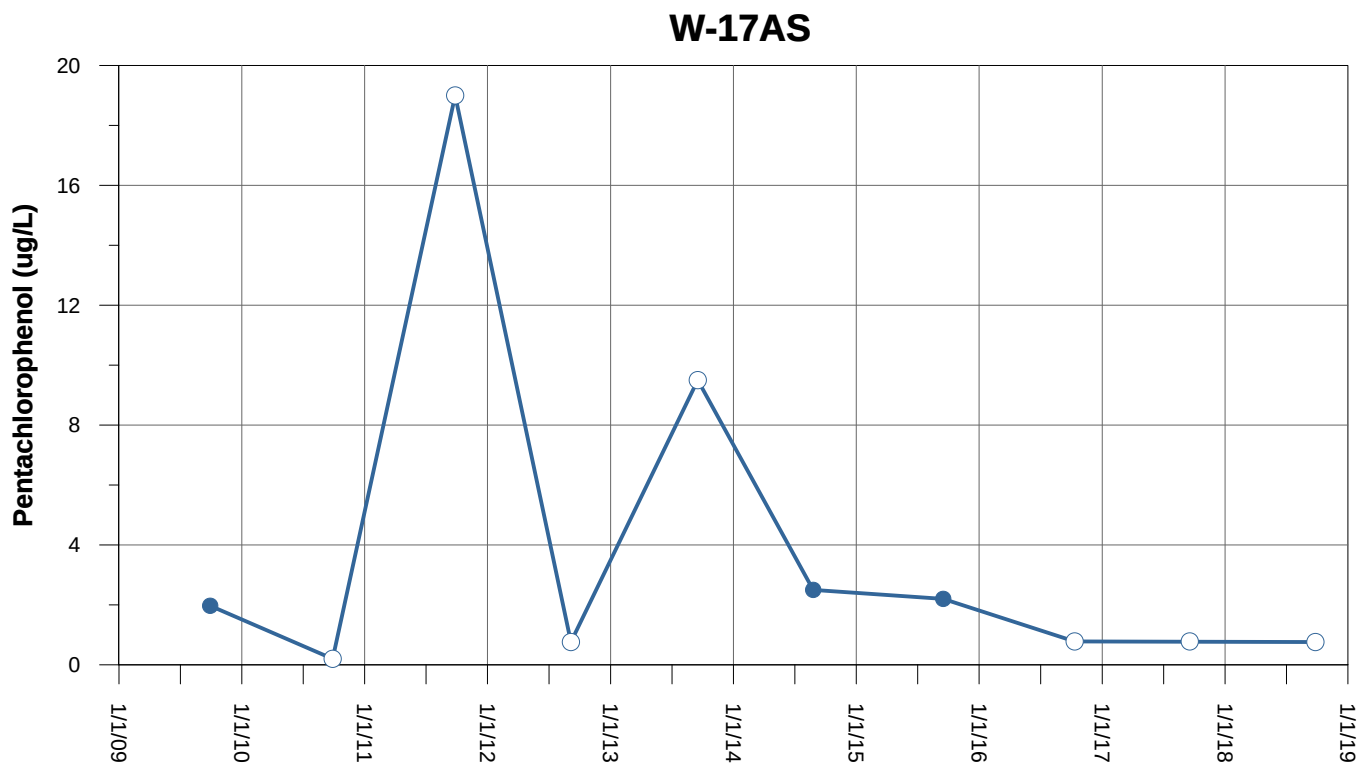
Legend:

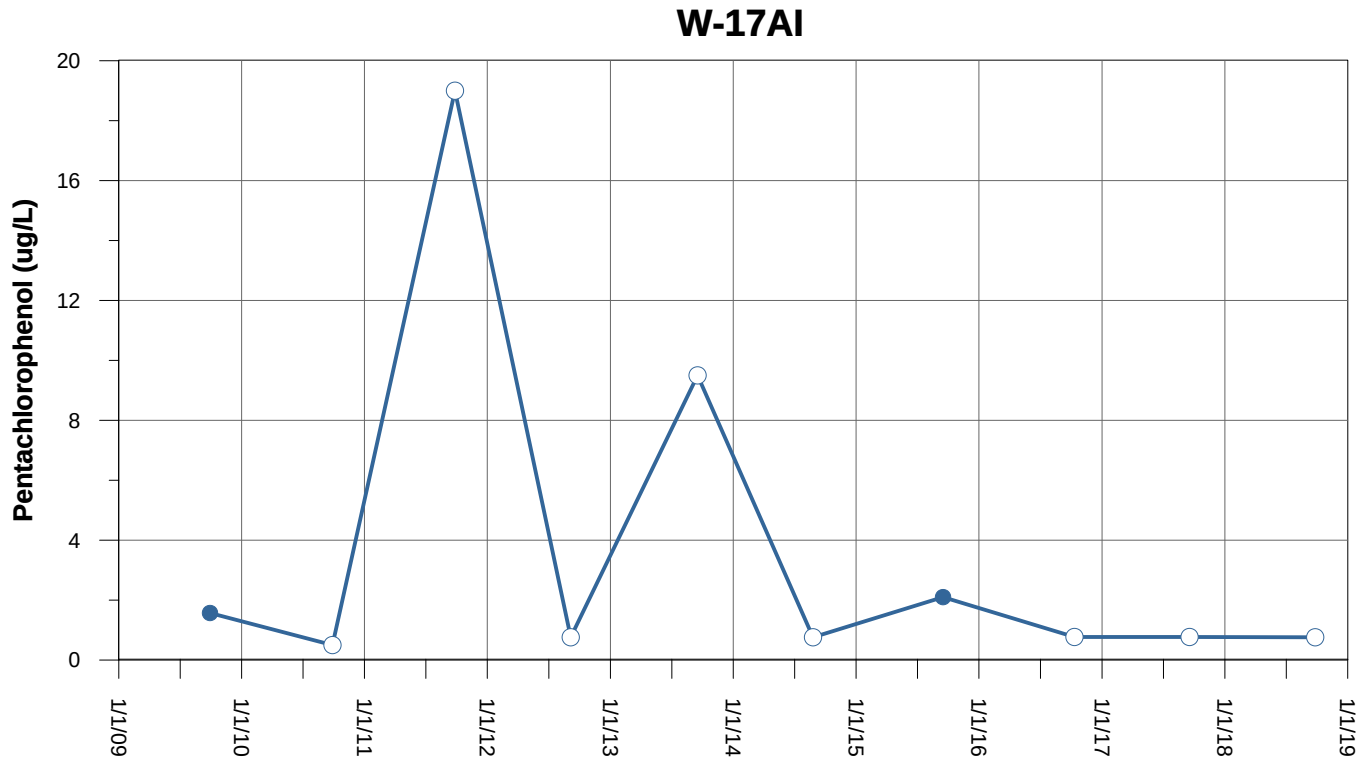
- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

Notes:
ug/L = microgram per liter

FIGURE C-4
Pentachlorophenol Groundwater Concentrations in W-13S and W-13I
J.H. Baxter Wood Treating Facility
Eugene, Oregon

GSI Water Solutions, Inc.





Legend:

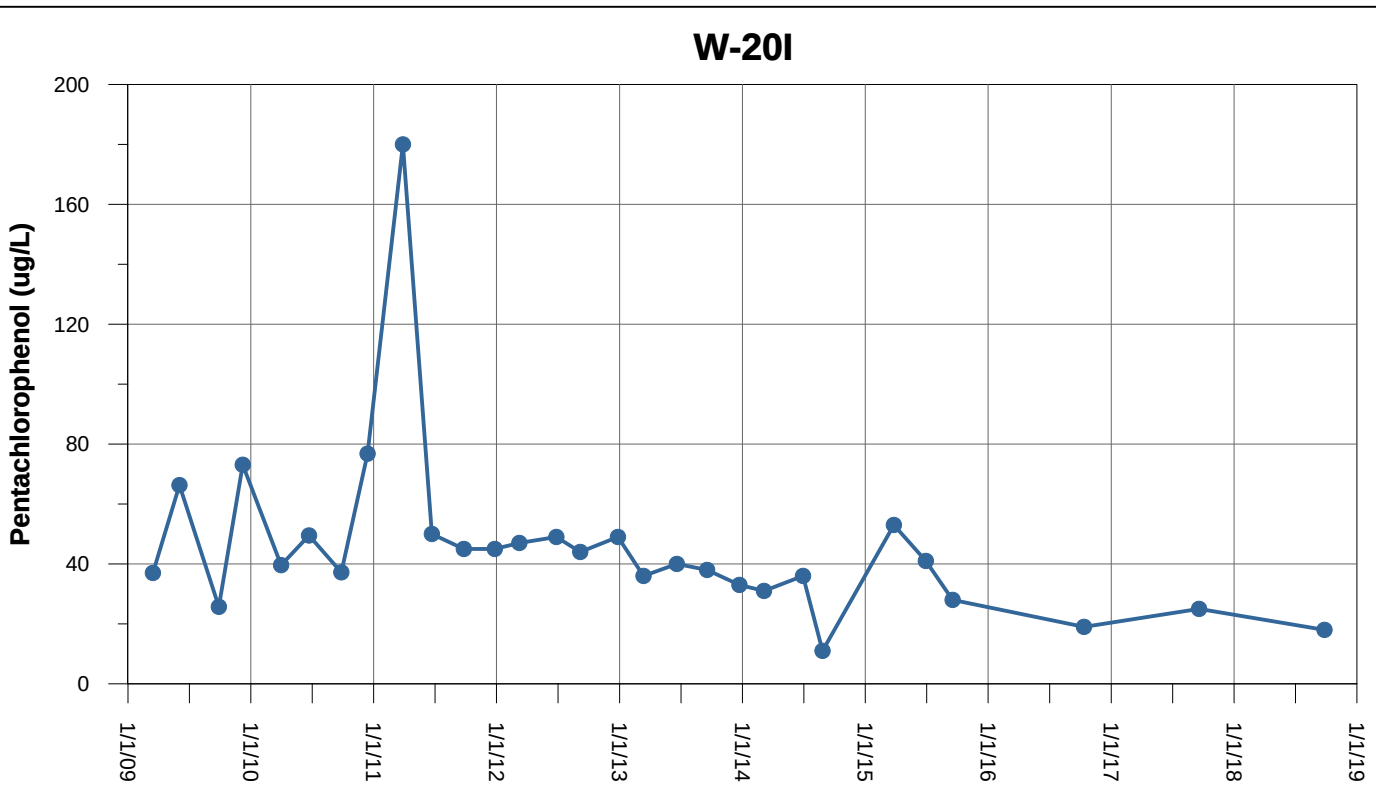
- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

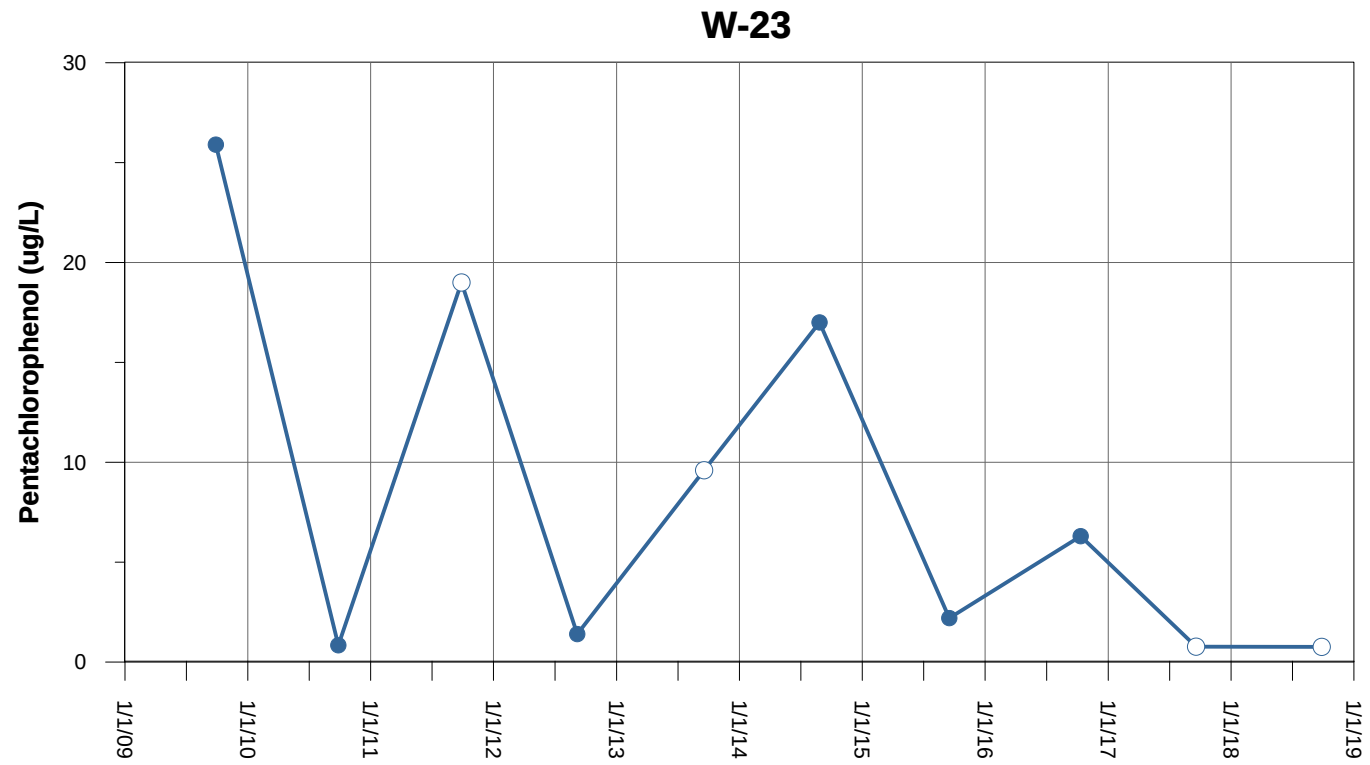
Notes:
ug/L = microgram per liter

FIGURE C-5
Pentachlorophenol Groundwater Concentrations in W-17AS and W-17AI

J.H. Baxter Wood Treating Facility
Eugene, Oregon

GSI Water Solutions, Inc.





Legend:

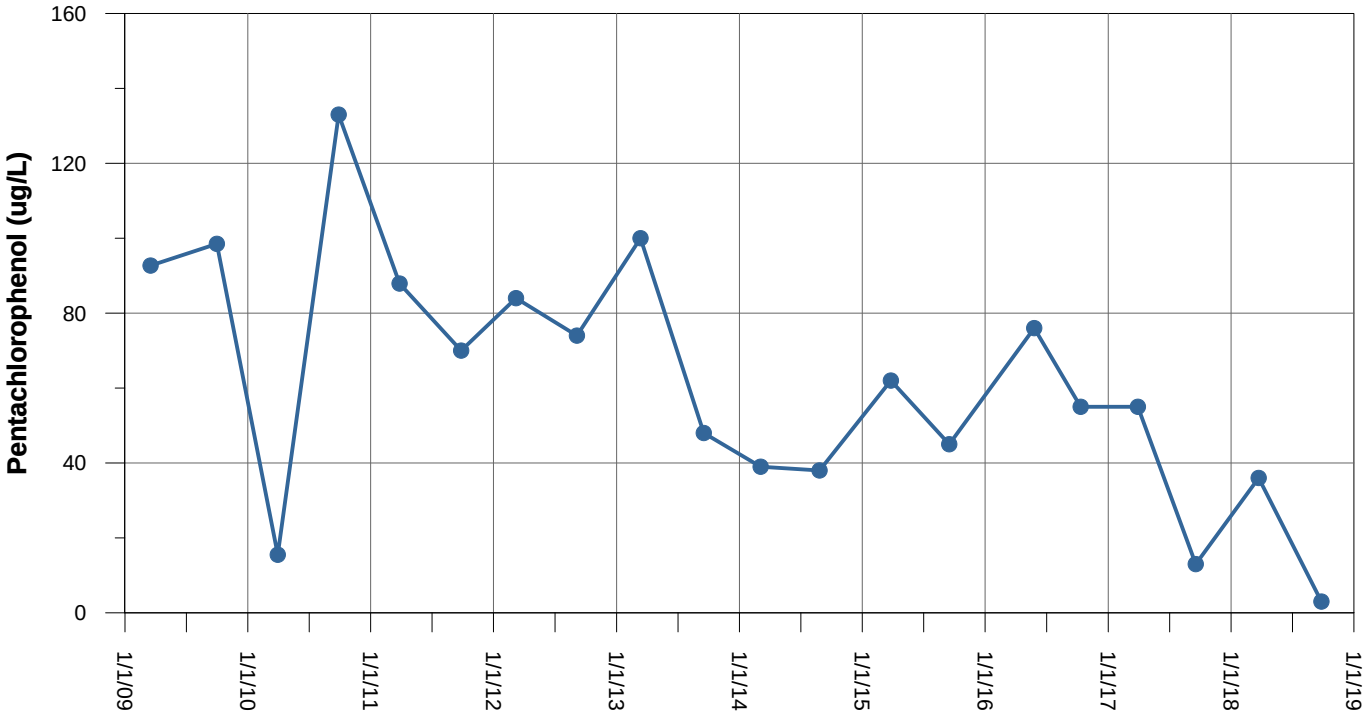
- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

FIGURE C-6
Pentachlorophenol Groundwater Concentrations in W-20I and W-23
J.H. Baxter Wood Treating Facility
Eugene, Oregon

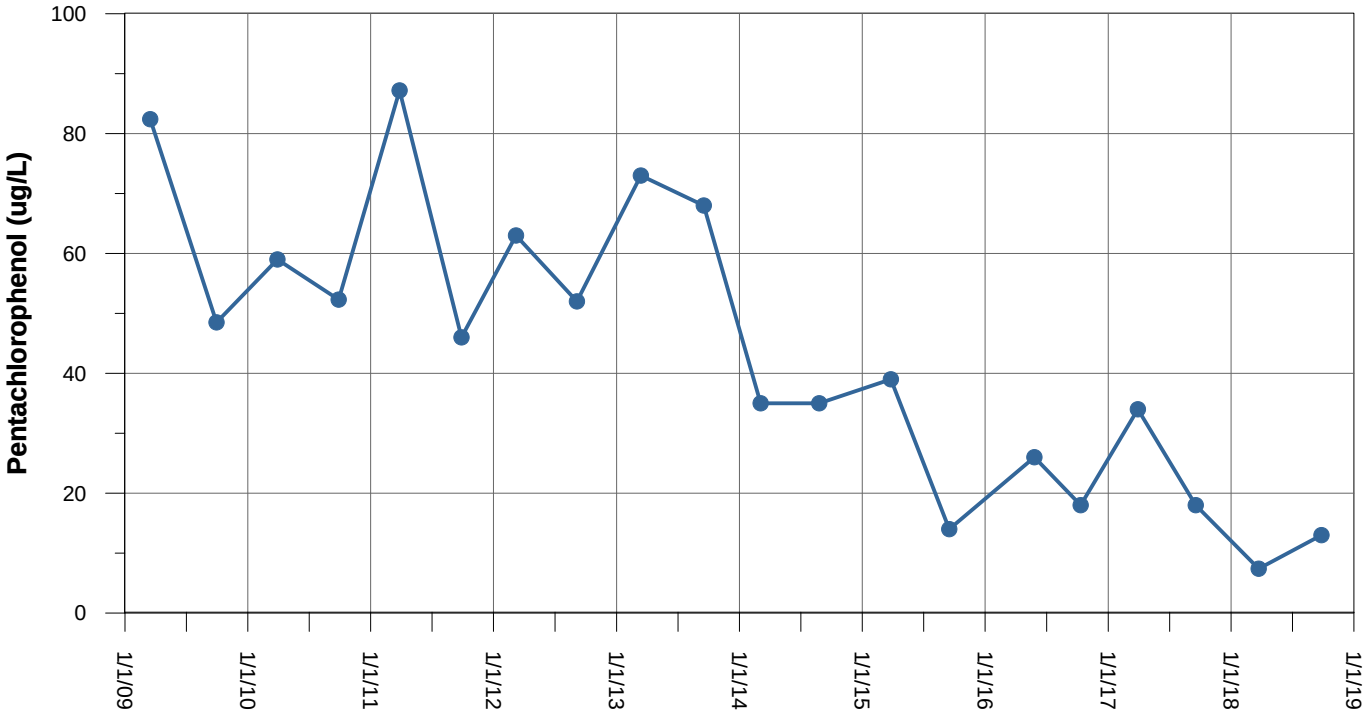
Notes:
ug/L = microgram per liter

GSI Water Solutions, Inc.

W-24



W-25



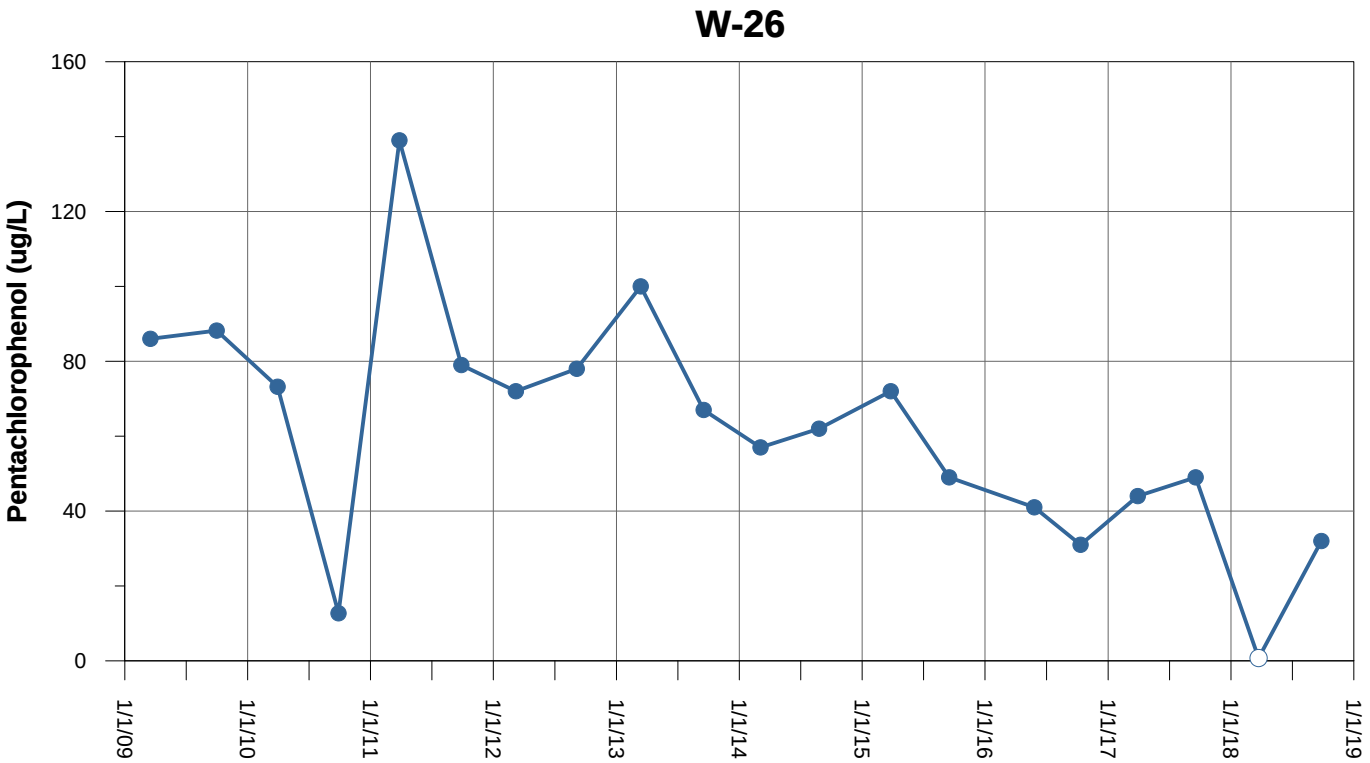
Legend:

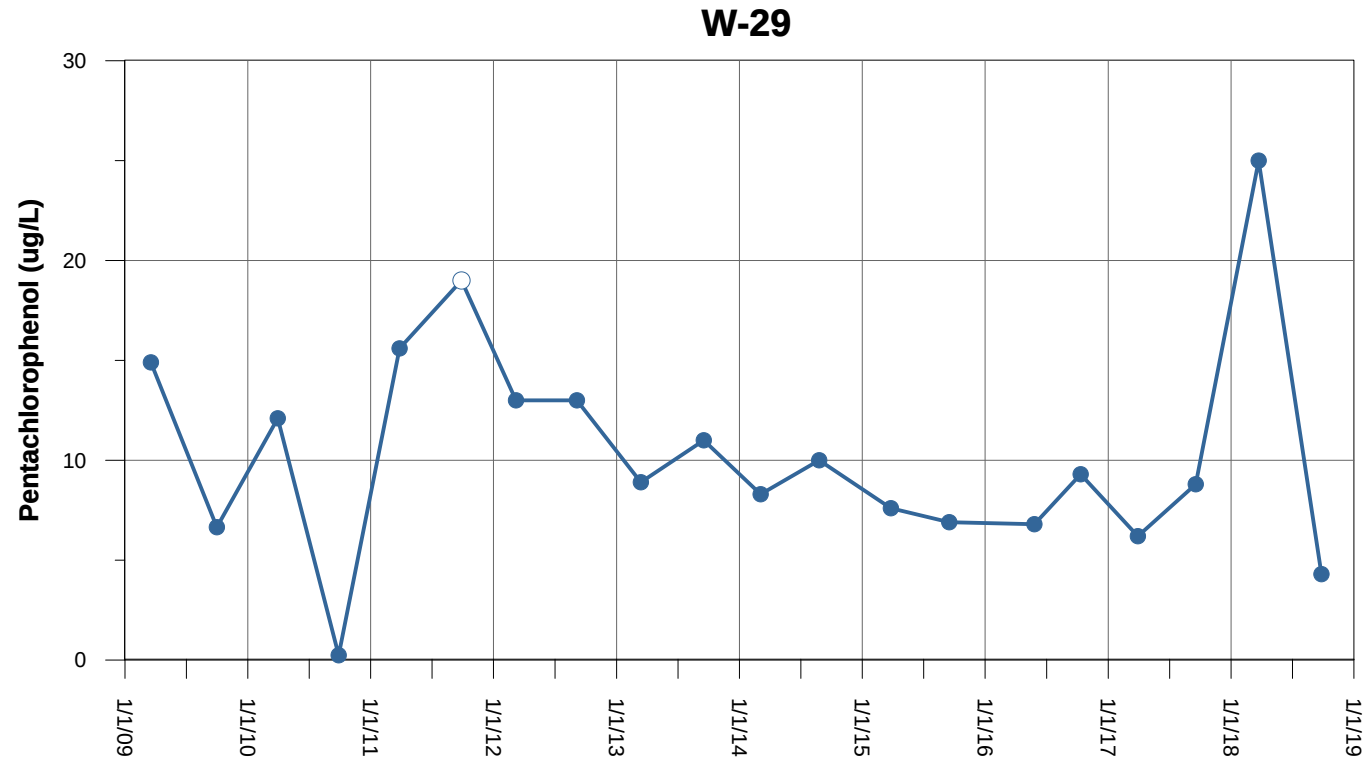
- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

FIGURE C-7
Pentachlorophenol Groundwater Concentrations in W-24 and W-25
J.H. Baxter Wood Treating Facility
Eugene, Oregon

Notes:
ug/L = microgram per liter

GSI Water Solutions, Inc.





Legend:

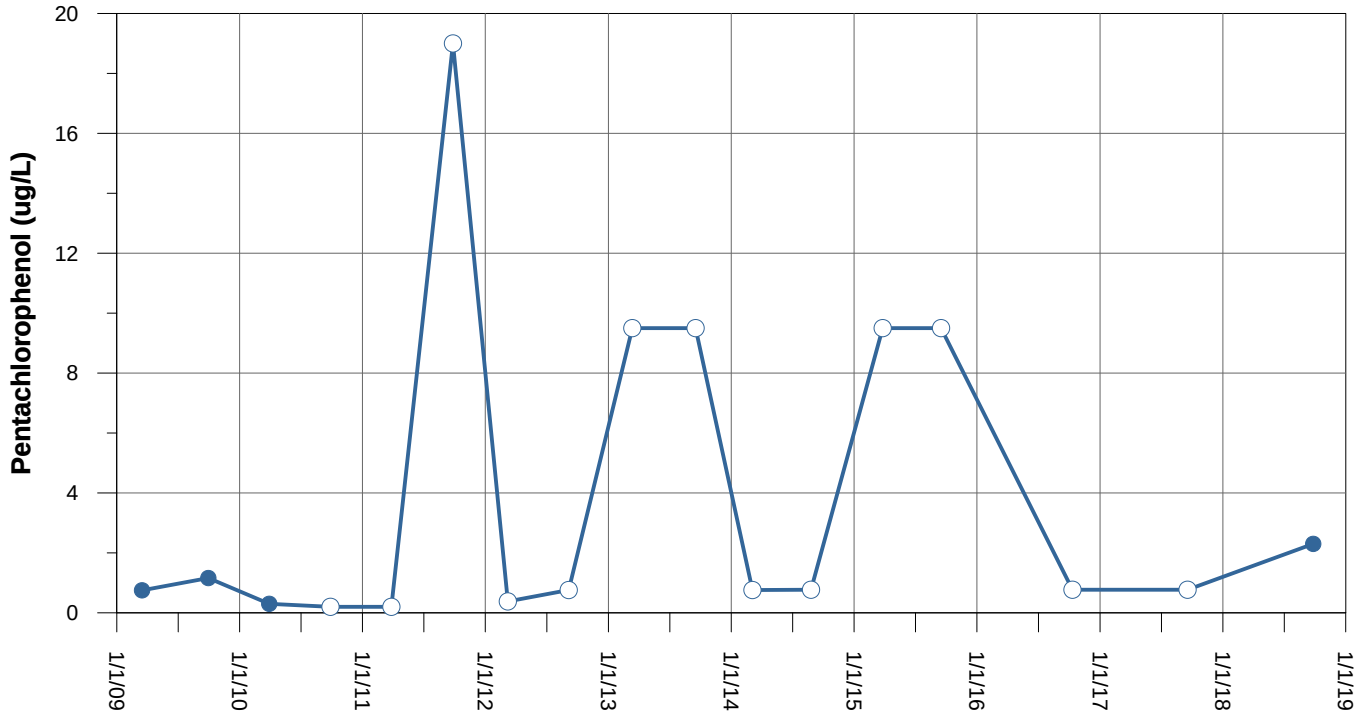
- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

FIGURE C-8
Pentachlorophenol Groundwater Concentrations in W-26 and W-29
J.H. Baxter Wood Treating Facility
Eugene, Oregon

Notes:
ug/L = microgram per liter

GSI Water Solutions, Inc.

W-32



Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

Notes:
ug/L = microgram per liter

FIGURE C-9
Pentachlorophenol Groundwater Concentrations in W-32
J.H. Baxter Wood Treating Facility
Eugene, Oregon

GSI Water Solutions, Inc.