



October 22, 2020

827.001.45

Washington State Department of Ecology
Northwest Regional Office
3190 160th Avenue SE
Bellevue, Washington 98008-5452

Attention: Mr. Hideo Fujita

**CLEANUP PROGRESS REPORT, THIRD QUARTER 2020
BSB PROPERTY, KENT, WASHINGTON
CONSENT DECREE No. 11-2-27288-5**

Dear Mr. Fujita:

On behalf of B.S.B. Diversified Company, Inc. (BSB), PES Environmental, Inc. (PES) is submitting this quarterly progress report for the cleanup action at the BSB property located at 8202 South 200th Street in Kent, Washington. The cleanup action is being implemented pursuant to the requirements of Consent Decree No. 11-2-27288-5 issued by the State of Washington Department of Ecology (Ecology), effective August 8, 2011.

This cleanup progress report, which is being submitted consistent with Section XI of the CD, covers the period of July 1 through September 30, 2020. This progress report includes discussions of: (1) a list of activities that took place during the reporting period, (2) a description of any deviations from the required tasks not already documented in project plans or reports, (3) any deviations from the cleanup action plan during the reporting period or planned deviations during the upcoming reporting period, (4) a plan for recovering any time lost due to schedule deviations, (5) all raw data received during the reporting period with the sample source identified, and (6) a list of deliverables for the upcoming reporting period if different from the schedule.

ACTIVITIES CONDUCTED DURING THE REPORTING PERIOD

During the third quarter of 2020, BSB conducted the following work:

- Continued startup pumping, monitoring, and evaluation, pumping water from the vault through the air stripper treatment system to the sewer throughout the quarter. The system was pumped at an average rate of 1.54 gallons per minute (gpm) in July, 1.34 gpm in August, and 0.84 gpm in September, for an average pumping rate of 1.25 gpm for the quarter. A total of 165,259 gallons of water was discharged to the sewer during the quarter;
- Conducted periodic monitoring and maintenance of the pumping and treatment systems throughout the quarter;

- Collected discharge monitoring samples consistent with BSB's King County Industrial Waste (KCIW) discharge authorization on July 1 and submitted the samples to Fremont Analytical in Seattle for halogenated volatile organic compound (HVOC) analysis;
- Monitored groundwater levels in all piezometers and monitoring wells consistent with the Compliance Monitoring Plan¹ (as modified by the frequency reduction approved by Ecology²) on September 4; and
- Collected groundwater samples consistent with the Compliance Monitoring Plan between September 8 and September 10 and submitted the samples to Fremont Analytical in Seattle for HVOC analysis.

DEVIATIONS FROM REQUIRED TASKS NOT ALREADY REPORTED

No unreported deviations from required tasks occurred during the reporting period.

DEVIATIONS FROM CLEANUP ACTION PLAN

No deviations from the cleanup action plan occurred during the reporting period.

DEVIATIONS FROM THE SCHEDULE

No deviations from the schedule provided in the cleanup action plan occurred during the reporting period.

RAW DATA RECEIVED DURING THE REPORTING PERIOD

Attached are two tables summarizing the monthly vault data (Table 1) and the groundwater elevation data in paired shallow and intermediate monitoring points across the soil-bentonite cutoff wall (Table 2). Attachment A provides the September groundwater quality data and data validation review memorandum for Compliance Monitoring Plan monitoring wells. The data generated during the monthly discharge monitoring under BSB's KCIW permit are not included since they have already been transmitted to Ecology.

DELIVERABLES PROJECTED DURING THE UPCOMING REPORTING PERIOD

No deliverables are planned for the fourth quarter of 2020.

¹ PES Environmental, Inc. 2015. *Compliance Monitoring Plan, Shallow Aquifer Cleanup Action, BSB Property, Kent, Washington*. Submitted on behalf of B.S.B. Diversified Company, Inc., to the Washington State Department of Ecology. December 18.

² PES Environmental, Inc. 2017. *Cleanup Progress Report, BSB Property, Kent, Washington, Consent Decree No. 11-2-27288-5*. Submitted on behalf of B.S.B. Diversified Company, Inc., to the Washington State Department of Ecology. January 19.

Mr. Hideo Fujita

October 22, 2020

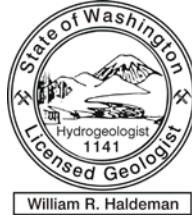
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PES Environmental, Inc.

If you have any questions or comments, please call me at (206) 529-3980.

Sincerely,

PES ENVIRONMENTAL, INC.



William R. Haldeman, LHG, R.G.
Associate Hydrogeologist

Attachments: Table 1 – Monthly Summary of Vault Area Data
Table 2 – Summary of Groundwater Elevations in Paired Monitoring Points
Attachment A – September 2020 Analytical Laboratory Reports and Data
Validation Memorandum

cc: John FitzSimons, B.S.B. Diversified Company, Inc.
Ronald Burt, Burt Geology & Environmental Applications, PLLC
Paul Beveridge, BeveridgeLaw, PS
Tim Sturdavant, Hexcel Corporation

Table 1

**Monthly Summary of Vault Area Data
BSB Property, Kent, Washington**

Month	Average Groundwater Elevation (feet)						Groundwater Extraction			SeaTac Airport Precipitation (inches)	
	Shallow Wells			Intermediate Wells			Inside Vault		Monthly Totals (gallons)		Monthly Average Rate (gpm)
	Inside P-1	Outside P-3	Δ H	Inside P-2	Outside P-4	Δ H	Cell 6 P-5	Cell 1 P-6			
April 2012	24.95	23.04	-1.91	25.36	22.59	-2.77	21.34	-	102,629	2.38	2.68
May 2012	21.14	22.40	1.26	22.65	21.61	-1.04	18.13	-	155,907	3.49	2.05
June 2012	20.30	22.41	2.11	21.80	21.60	-0.20	17.09	-	112,027	2.59	2.96
July 2012	19.74	21.68	1.94	21.12	21.19	0.07	17.25	-	104,169	2.33	1.04
August 2012	19.61	20.84	1.23	20.75	20.57	-0.17	17.42	-	75,009	1.68	0.00
September 2012	19.53	20.24	0.71	20.47	20.21	-0.26	17.65	-	53,519	1.24	0.03
October 2012	20.09	20.88	0.78	20.70	20.49	-0.21	18.59	-	38,014	0.85	6.71
November 2012	22.65	22.64	-0.01	22.84	21.71	-1.13	21.19	-	39,130	0.91	8.28
December 2012	24.81	23.14	-1.68	24.81	22.28	-2.53	21.87	-	52,135	1.17	6.85
2012	21.43	21.92	0.49	22.28	21.36	-0.92	18.95	-	732,539	1.85	30.60
January 2013	24.18	22.79	-1.39	24.58	22.09	-2.49	19.05	-	91,196	2.04	4.16
February 2013	23.14	22.50	-0.64	23.90	21.84	-2.06	16.79	19.49	99,665	2.47	1.58
March 2013	21.39	22.55	1.16	22.62	21.75	-0.87	16.99	18.56	116,507	2.61	2.74
April 2013	22.01	22.85	0.84	23.04	22.08	-0.96	17.01	19.84	101,804	2.36	5.89
May 2013	21.68	22.17	0.49	22.72	21.60	-1.13	18.95	19.96	76,717	1.72	2.38
June 2013	21.20	21.61	0.42	22.34	21.09	-1.25	16.03	19.27	94,440	2.19	1.30
July 2013	20.51	20.88	0.36	21.56	20.65	-0.90	16.51	18.61	68,125	1.53	0.00
August 2013	20.04	20.41	0.37	21.05	20.28	-0.77	17.16	18.71	65,936	1.48	1.35
September 2013	19.69	21.21	1.52	20.68	20.69	0.01	17.36	18.24	53,781	1.24	6.17
October 2013	20.38	21.83	1.46	21.18	21.20	0.02	18.11	19.07	41,790	0.94	1.54
November 2013	20.76	21.75	1.00	21.48	21.16	-0.32	19.14	19.63	40,384	0.93	3.79
December 2013	20.93	21.59	0.66	21.67	21.04	-0.63	19.51	19.79	44,459	1.00	1.66
2013	21.33	21.84	0.52	22.24	21.29	-0.95	17.72	19.20	894,804	1.70	32.56
January 2014	21.62	21.90	0.28	22.37	21.27	-1.10	20.04	20.39	51,451	1.15	3.70
February 2014	21.81	22.64	0.83	22.77	21.85	-0.92	20.22	20.18	60,139	1.49	6.11
March 2014	23.58	23.44	-0.15	24.39	22.55	-1.83	21.28	22.01	65,695	1.47	9.44
April 2014	23.94	23.07	-0.87	24.65	22.27	-2.38	22.24	22.52	58,332	1.35	4.18
May 2014	23.87	22.74	-1.13	24.65	22.06	-2.59	22.78	22.43	67,228	1.51	3.15
June 2014	21.83	21.74	-0.09	22.98	21.28	-1.70	21.84	20.08	94,124	2.18	0.73
July 2014	19.98	21.03	1.05	21.37	20.77	-0.61	19.53	18.14	86,821	1.94	0.77
August 2014	19.56	20.84	1.28	20.82	20.59	-0.23	19.00	17.89	72,250	1.62	1.81
September 2014	19.41	20.85	1.44	20.45	20.37	-0.08	18.78	17.84	58,205	1.35	2.23
October 2014	19.59	21.51	1.93	20.50	20.81	0.31	18.75	18.07	55,553	1.24	6.75
November 2014	20.21	22.43	2.22	21.14	21.65	0.52	18.88	18.11	73,872	1.71	4.84
December 2014	20.36	22.88	2.52	21.45	22.16	0.71	18.90	17.93	91,238	2.04	4.79
2014	21.31	22.09	0.78	22.29	21.47	-0.82	20.19	19.63	834,908	1.59	48.50
January 2015	20.45	22.95	2.51	21.68	22.29	0.60	18.86	18.02	91,055	2.04	3.66
February 2015	20.39	23.19	2.80	21.82	22.45	0.64	18.87	17.86	93,948	2.33	5.27
March 2015	20.33	23.04	2.71	21.70	22.29	0.59	18.64	17.99	104,656	2.34	4.47
April 2015	20.08	22.75	2.67	21.60	22.09	0.49	18.40	17.85	103,400	2.39	2.03
May 2015	19.66	21.82	2.16	21.11	21.48	0.37	18.17	17.85	87,746	1.97	0.58
June 2015	19.43	21.05	1.62	20.69	20.89	0.20	18.03	17.83	71,754	1.66	0.23
July 2015	19.29	20.37	1.08	20.36	20.27	-0.09	17.96	17.78	62,364	1.40	0.09
August 2015	19.14	20.14	1.00	20.08	19.98	-0.10	17.96	17.76	53,726	1.20	3.28
September 2015	19.08	20.61	1.53	19.93	20.18	0.26	18.01	17.78	46,710	1.08	0.83
October 2015	19.03	20.98	1.95	19.84	20.39	0.55	18.04	17.76	44,053	0.99	4.81
November 2015	19.47	22.40	2.93	20.33	21.59	1.26	18.25	17.79	59,260	1.37	8.37

Table 1

**Monthly Summary of Vault Area Data
BSB Property, Kent, Washington**

Month	Average Groundwater Elevation (feet)						Groundwater Extraction		SeaTac Airport Precipitation (inches)		
	Shallow Wells			Intermediate Wells			Inside Vault			Monthly Totals (gallons)	Monthly Average Rate (gpm)
	Inside P-1	Outside P-3	Δ H	Inside P-2	Outside P-4	Δ H	Cell 6 P-5	Cell 1 P-6			
December 2015	20.06	23.35	3.30	21.18	22.64	1.46	18.47	17.85	85,791	1.92	11.21
2015	19.70	21.89	2.19	20.86	21.38	0.52	18.31	17.84	904,463	1.72	44.83
January 2016	20.33	23.33	3.00	21.58	22.69	1.11	18.58	17.93	91,064	2.04	7.45
February 2016	20.52	23.52	3.01	21.95	22.89	0.95	18.56	18.17	92,097	2.21	5.97
March 2016	20.41	23.61	3.21	22.03	23.02	0.99	18.05	17.80	91,359	2.05	5.52
April 2016	20.03	22.65	2.62	21.56	22.33	0.77	18.12	17.92	92,238	2.14	1.19
May 2016	19.63	21.92	2.28	21.01	22.03	1.02	18.08	17.86	77,419	1.73	0.94
June 2016	19.56	21.63	2.07	20.77	21.23	0.46	18.07	17.95	63,280	1.46	1.77
July 2016	19.43	21.36	1.93	20.56	20.89	0.33	18.07	17.85	64,599	1.45	0.72
August 2016	19.32	20.59	1.27	20.34	20.33	-0.01	18.06	17.88	58,816	1.32	0.17
September 2016	19.08	20.61	1.53	19.93	20.18	0.26	18.01	17.78	50,751	1.17	1.05
October 2016	19.37	21.81	2.44	20.27	20.96	0.69	18.10	17.93	57,985	1.30	10.05
November 2016	19.95	22.97	3.02	21.06	22.13	1.07	18.32	18.20	73,164	1.69	6.48
December 2016	20.13	23.12	2.99	21.34	22.29	0.95	18.44	18.12	90,373	2.03	3.87
2016	19.81	22.26	2.45	21.03	21.75	0.72	18.21	17.95	903,145	1.71	45.18
January 2017	20.23	23.08	2.85	21.54	22.40	0.86	18.48	18.07	92,992	2.08	4.22
February 2017	20.89	23.96	3.07	22.36	23.02	0.66	18.54	18.48	129,374	3.21	8.85
March 2017	20.84	23.81	2.97	22.57	23.10	0.53	17.96	17.90	115,878	2.60	7.31
April 2017	20.89	23.58	2.69	22.73	22.92	0.19	18.07	17.99	141,476	3.27	4.21
May 2017	20.64	23.18	2.53	22.53	22.63	0.10	18.15	17.98	126,185	2.83	2.28
June 2017	20.03	22.38	2.36	21.73	22.00	0.27	18.15	17.99	90,434	2.09	1.52
July 2017	19.74	21.32	1.58	21.18	21.29	0.10	18.14	18.12	70,849	1.59	0.00
August 2017	20.03	20.75	0.72	21.11	20.78	-0.32	18.25	18.87	46,350	1.04	0.02
September 2017	19.87	20.73	0.86	20.85	20.56	-0.29	18.51	18.79	43,435	1.01	0.61
October 2017	19.72	21.34	1.62	20.58	20.79	0.21	18.57	18.52	45,017	1.01	4.80
November 2017	21.02	22.70	1.68	21.63	21.88	0.25	19.87	19.92	29,036	0.67	8.63
December 2017	21.11	22.98	1.87	22.04	22.30	0.27	19.79	19.88	62,616	1.40	5.43
2017	20.42	22.48	2.07	21.74	21.97	0.24	18.54	18.54	993,642	1.89	47.88
January 2018	22.57	23.61	1.04	23.19	22.86	-0.33	20.85	21.74	32,062	0.72	8.12
February 2018	22.99	23.35	0.36	23.78	22.71	-1.06	21.92	22.00	48,222	1.20	2.16
March 2018	21.68	22.97	1.29	23.00	22.26	-0.73	21.26	19.91	108,566	2.43	2.44
April 2018	20.48	23.26	2.78	22.21	22.51	0.30	18.48	18.25	109,415	2.53	5.69
May 2018	19.87	22.22	2.35	21.56	21.85	0.30	18.14	17.98	88,365	1.98	0.12
June 2018	19.58	21.53	1.96	21.00	21.25	0.26	18.04	18.02	65,272	1.51	0.63
July 2018	19.59	20.91	1.32	20.79	20.76	-0.03	18.10	18.36	50,594	1.13	0.05
August 2018	19.84	20.42	0.58	20.77	20.38	-0.39	18.18	18.98	33,061	0.74	0.20
September 2018	19.66	20.48	0.83	20.61	20.29	-0.32	18.58	18.62	52,057	1.21	1.04
October 2018	19.03	21.14	2.11	20.08	20.59	0.50	18.59	17.82	52,455	1.18	3.78
November 2018	19.12	21.85	2.73	20.19	21.17	0.98	18.66	17.87	47,830	1.11	5.42
December 2018	20.10	22.73	2.62	20.99	21.87	0.89	18.79	19.01	39,334	0.88	6.08
2018	20.37	22.04	1.66	21.51	21.54	0.03	19.13	19.05	727,233	1.51	35.73
January 2019	21.14	23.04	1.91	22.09	22.37	0.28	19.76	20.05	53,727	1.20	3.83
February 2019	22.13	23.45	1.32	22.87	22.65	-0.21	20.48	20.97	72,183	1.79	4.62
March 2019	20.27	22.69	2.42	21.84	22.11	0.27	19.04	18.21	113,941	2.55	1.37
April 2019	20.19	22.84	2.65	21.66	22.02	0.36	18.16	18.21	87,742	2.03	3.53
May 2019	19.78	21.97	2.19	21.32	21.48	0.16	18.16	17.94	84,096	1.88	0.62
June 2019	20.71	21.35	0.64	21.56	20.98	-0.57	18.33	19.76	30,719	0.71	0.90

Table 1

**Monthly Summary of Vault Area Data
BSB Property, Kent, Washington**

Month	Average Groundwater Elevation (feet)						Groundwater Extraction		SeaTac Airport Precipitation (inches)		
	Shallow Wells			Intermediate Wells			Inside Vault			Monthly Totals (gallons)	Monthly Average Rate (gpm)
	Inside P-1	Outside P-3	ΔH	Inside P-2	Outside P-4	ΔH	Cell 6 P-5	Cell 1 P-6			
July 2019	20.24	21.17	0.93	21.38	20.78	-0.60	18.86	18.89	63,230	1.42	1.15
August 2019	19.58	20.71	1.13	20.75	20.46	-0.29	18.82	18.20	55,797	1.25	1.20
September 2019	19.46	21.66	2.19	20.60	20.90	0.30	18.82	18.07	53,049	1.23	3.32
October 2019	19.54	21.94	2.40	20.63	21.20	0.57	18.85	18.02	58,116	1.30	3.67
November 2019	19.58	21.92	2.34	20.76	21.32	0.55	18.89	18.09	60,461	1.40	1.71
December 2019	19.80	22.59	2.79	20.99	21.82	0.83	18.98	18.31	64,675	1.45	7.96
2019	20.20	22.11	1.91	21.37	21.51	0.14	18.93	18.73	797,736	1.52	33.88
January 2020	20.46	23.55	3.10	21.67	22.59	0.92	19.10	18.56	80,888	1.81	9.23
February 2020	20.65	23.44	2.79	22.06	22.71	0.65	19.21	18.52	93,430	2.24	4.05
March 2020	20.39	23.01	2.62	21.81	22.20	0.39	19.21	18.44	84,472	1.89	3.17
April 2020	20.10	22.55	2.45	21.50	23.34	1.84	19.18	18.19	71,683	1.66	1.70
May 2020	20.23	22.41	2.17	21.50	21.75	0.25	19.14	18.53	68,401	1.53	3.12
June 2020	20.26	22.50	2.23	21.53	21.66	0.13	19.15	18.43	67,843	1.57	2.28
July 2020	19.74	21.52	1.78	21.09	21.12	0.03	19.08	17.99	68,838	1.54	0.17
August 2020	19.45	20.81	1.36	20.68	20.61	-0.06	18.96	17.93	60,038	1.34	0.31
September 2020	19.90	20.77	0.87	20.74	20.36	-0.38	18.90	18.83	36,383	0.84	2.48
2020	20.13	22.28	2.15	21.40	21.82	0.42	19.10	18.38	631,976	1.60	28.81

Notes: 1. Elevations in feet relative to the North American Vertical Datum of 1988 (NAVD 88).
2. Inside or outside refers to the location of the piezometer relative to the soil-bentonite cutoff wall.
3. ΔH = groundwater elevation difference; positive = inward gradient, which is shaded in blue, and negative = outward gradient, which is shaded in red.
4. gpm = gallons per minute.
5. NA = not available.
6. Groundwater extracted from Cell 6 through 2/12/13, from Cells 1 and 6 from 2/13/13 through 7/20/13 and from Cell 1 after 7/20/13.

Table 2

Summary of Groundwater Elevations in Paired Monitoring Points
BSB Property, Kent, Washington

Date	Pump Rate (gpm)	Cell Pumped	Monthly Rainfall (inches)	Groundwater Elevations																
				Northeast Corner			North Boundary			Northwest Corner			Southwest Corner			East Boundary			Center	
				Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	ΔH
Shallow																				
2/6/12	-	-	3.63	21.29	23.03	1.74	23.36	23.24	-0.12	24.84	24.71	-0.13	23.67	25.15	1.48	23.60	23.45	-0.15	-	-
2/24/12	-	-	-	20.47	23.20	2.73	22.53	24.52	1.99	24.15	24.82	0.67	22.88	25.19	2.31	19.75	23.60	3.85	-	-
3/13/12	-	-	7.20	23.69	23.51	-0.18	24.77	23.49	-1.28	25.83	25.35	-0.48	24.79	25.52	0.73	23.51	24.07	0.56	-	-
3/27/12	0.6	6	-	26.28	23.51	-2.77	26.53	22.91	-3.62	26.82	24.91	-1.91	26.20	25.32	-0.88	26.18	23.60	-2.58	-	-
4/9/12	2.0	6	2.68	25.76	23.13	-2.63	26.36	22.84	-3.52	26.82	23.90	-2.92	26.06	25.33	-0.73	25.59	23.57	-2.02	-	-
4/26/12	3.0	6	-	22.84	23.16	0.32	24.65	24.22	-0.43	25.89	24.89	-1.00	24.75	25.23	0.48	22.34	23.58	1.24	-	-
5/4/12	4.0	6	2.05	22.09	22.95	0.86	23.86	22.87	-0.99	25.27	24.92	-0.35	24.13	25.26	1.13	21.90	23.55	1.65	-	-
5/7/12	4.0	6	-	21.96	22.76	0.80	23.85	22.59	-1.26	25.17	24.66	-0.51	24.03	25.08	1.05	21.63	23.28	1.65	-	-
5/10/12	4.0	6	-	21.44	22.36	0.92	23.37	22.22	-1.15	24.75	24.37	-0.38	23.64	24.85	1.21	21.10	22.93	1.83	-	-
6/11/12	2.5	6	2.96	20.31	22.44	2.13	21.84	22.22	0.38	22.40	24.16	1.76	22.26	24.56	2.30	19.98	22.92	2.94	-	-
6/25/12	2.5	6	-	20.28	22.45	2.17	21.65	22.24	0.59	22.78	24.08	1.30	22.01	24.40	2.39	19.97	22.89	2.92	-	-
6/26/12	2.5	6	-	21.02	22.27	1.25	22.00	22.05	0.05	22.92	23.99	1.07	22.26	24.36	2.10	20.74	22.75	2.01	-	-
7/3/12	2.5	6	1.04	19.80	21.89	2.09	21.21	22.01	0.80	22.44	23.71	1.27	21.71	24.07	2.36	19.55	22.51	2.96	-	-
7/18/12	2.5	6	-	19.57	21.12	1.55	20.82	21.11	0.29	21.99	23.11	1.12	21.32	23.49	2.17	19.31	21.94	2.63	-	-
8/2/12	2.0	6	0.00	19.48	20.93	1.45	20.61	20.91	0.30	21.61	22.88	1.27	21.07	23.25	2.18	19.24	21.77	2.53	-	-
8/9/12	2.0	6	-	19.37	20.69	1.32	20.46	20.79	0.33	21.42	22.65	1.23	20.90	23.00	2.10	19.11	21.57	2.46	-	-
8/20/12	1.5	6	-	19.53	20.50	0.97	20.48	20.48	0.00	21.33	22.33	1.00	20.92	22.71	1.79	19.36	21.40	2.04	-	-
9/19/12	1.0	6	0.03	19.34	19.97	0.63	20.16	19.98	-0.18	20.85	21.65	0.80	20.52	22.02	1.50	19.23	20.90	1.67	-	-
10/8/12	1.0	6	6.71	19.74	19.83	0.09	20.43	19.91	-0.52	20.96	21.34	0.38	20.74	21.70	0.96	19.71	20.76	1.05	-	-
11/9/12	1.0	6	8.28	22.01	22.50	0.49	22.60	20.47	-2.13	22.93	23.27	0.34	22.56	23.60	1.04	21.84	22.45	0.61	-	-
12/3/12	1.0	6	6.85	23.95	23.38	-0.57	24.48	22.72	-1.76	24.69	25.10	0.41	24.12	25.39	1.27	24.08	23.82	-0.26	-	-
2012 Shallow Averages				21.59	22.14	0.55	22.70	21.88	-0.82	23.51	23.73	0.21	22.88	24.17	1.29	21.66	22.71	1.05	-	-
1/4/13	1.5	6	4.16	24.69	23.02	-1.67	25.34	22.79	-2.55	25.69	24.74	-0.95	25.07	25.11	0.04	24.63	23.29	-1.34	-	-
1/24/13	3.0	6	-	22.54	22.14	-0.40	23.78	22.18	-1.60	24.56	24.31	-0.25	23.92	24.76	0.84	22.38	22.96	0.58	-	-
2/1/13	2.0	6	1.58	23.99	22.89	-1.10	25.11	22.35	-2.76	25.73	24.76	-0.97	24.69	25.10	0.41	23.75	23.42	-0.33	-	-
3/1/13	3.0	1 & 6	2.74	21.48	22.44	0.96	23.08	22.40	-0.68	24.16	24.23	0.07	23.15	24.58	1.43	21.15	23.06	1.91	-	-
4/5/13	2.8	1 & 6	5.89	20.17	22.12	1.95	21.83	22.26	0.43	23.10	24.04	0.94	22.29	24.44	2.15	19.92	22.99	3.07	-	-
5/3/13	3.0	6	2.38	20.89	22.08	1.19	22.59	22.06	-0.53	23.76	24.08	0.32	22.91	24.61	1.70	20.53	22.92	2.39	-	-
5/14/13	0.6	6	-	21.33	21.88	0.55	22.44	21.88	-0.56	23.32	23.82	0.50	22.72	24.23	1.51	21.27	22.55	1.28	-	-
6/7/13	1.8	6	1.30	21.40	21.49	0.09	22.70	21.46	-1.24	23.63	23.56	-0.07	22.90	23.93	1.03	21.23	22.30	1.07	-	-
7/12/13	2.0	1	0.00	19.98	20.86	0.88	21.22	20.82	-0.40	22.24	22.77	0.53	21.62	23.13	1.51	19.83	21.75	1.92	-	-
8/6/13	1.5	1	1.35	20.10	20.29	0.19	21.09	20.29	-0.80	21.88	22.06	0.18	21.45	22.45	1.00	20.08	21.21	1.13	-	-
9/9/13	1.5	1	6.17	19.55	21.16	1.61	20.51	20.83	0.32	21.25	22.50	1.25	20.88	22.97	2.09	19.46	21.76	2.30	-	-
10/11/13	1.0	1	1.54	20.12	22.09	1.97	20.91	21.24	0.33	21.61	23.49	1.88	21.25	23.88	2.63	20.05	22.55	2.50	-	-
11/8/13	1.0	1	3.79	20.45	21.87	1.42	21.16	21.78	0.62	21.69	23.40	1.71	21.46	23.78	2.32	20.48	22.57	2.09	-	-

Table 2

**Summary of Groundwater Elevations in Paired Monitoring Points
BSB Property, Kent, Washington**

Date	Pump Rate (gpm)	Cell Pumped	Monthly Rainfall (inches)	Groundwater Elevations																
				Northeast Corner			North Boundary			Northwest Corner			Southwest Corner			East Boundary			Center	
				Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	ΔH
12/6/13	1.0	1	1.66	20.85	21.40	0.55	21.55	21.58	0.03	22.04	23.01	0.97	21.70	23.53	1.83	20.82	22.14	1.32	-	-
2013 Shallow Averages				21.14	21.81	0.67	22.26	21.66	-0.60	23.07	23.55	0.49	22.45	23.96	1.51	20.99	22.50	1.50	-	-
1/13/14	1.0	1	3.70	21.69	22.28	0.59	22.61	21.69	-0.92	23.06	23.90	0.84	22.51	24.39	1.88	21.58	22.85	1.27	-	-
2/7/14	1.5	1	6.11	21.00	21.42	0.42	22.05	21.50	-0.55	22.76	22.49	-0.27	22.33	24.03	1.70	20.90	22.47	1.57	-	-
3/14/14	1.5	1	9.44	23.54	23.36	-0.18	24.64	23.36	-1.28	25.35	25.53	0.18	24.62	25.79	1.17	23.25	24.18	0.93	-	-
4/11/14	1.5	1	4.18	23.46	22.49	-0.97	24.60	22.48	-2.12	25.32	24.58	-0.74	24.57	25.05	0.48	23.35	23.29	-0.06	-	-
5/8/14	1.5	1	3.15	24.20	23.05	-1.15	26.07	22.92	-3.15	26.02	25.02	-1.00	25.22	25.41	0.19	23.98	23.86	-0.12	-	-
6/5/14	1.5	1	0.73	22.71	21.59	-1.12	23.87	21.59	-2.28	24.44	23.56	-0.88	23.88	24.12	0.24	22.63	22.45	-0.18	-	-
7/3/14	2.5	1	0.77	20.00	20.98	0.98	21.40	20.97	-0.43	22.51	22.85	0.34	21.88	23.27	1.39	19.95	21.80	1.85	-	-
8/6/14	1.75	1	1.81	19.48	20.50	1.02	20.60	20.47	-0.13	21.55	22.16	0.61	21.07	22.55	1.48	19.45	21.34	1.89	-	-
9/4/14	1.48	1	2.23	19.29	21.15	1.86	20.24	20.84	0.60	21.04	22.16	1.12	20.69	22.61	1.92	19.23	21.57	2.34	-	-
10/10/14	1.13	1	6.75	19.29	20.39	1.10	20.09	20.33	0.24	20.74	21.79	1.05	20.48	22.28	1.80	19.24	21.20	1.96	-	-
11/13/14	1.80	1	4.84	20.14	22.14	2.00	21.20	21.90	0.70	21.90	23.66	1.76	21.48	24.11	2.63	19.81	22.76	2.95	-	-
12/5/14	2.00	1	4.79	20.07	22.16	2.09	21.18	22.18	1.00	21.97	23.91	1.94	21.50	24.44	2.94	19.77	22.90	3.13	-	-
2014 Shallow Averages				21.24	21.79	0.55	22.38	21.69	-0.69	23.06	23.47	0.41	22.52	24.00	1.49	21.10	22.56	1.46	-	-
1/14/15	2.00	1	3.66	20.16	22.52	2.36	21.50	22.45	0.95	22.50	24.27	1.77	21.88	24.81	2.93	19.83	23.15	3.32	-	-
2/13/15	2.50	1	5.27	20.51	23.20	2.69	22.05	23.58	1.53	23.08	25.10	2.02	22.31	25.52	3.21	20.10	23.87	3.77	-	-
3/13/15	2.29	1	4.47	19.84	22.27	2.43	21.17	22.22	1.05	22.17	24.11	1.94	21.68	24.64	2.96	19.68	22.81	3.13	-	-
4/10/15	2.60	1	2.03	20.10	22.37	2.27	21.52	22.32	0.80	22.63	24.27	1.64	22.04	24.79	2.75	19.95	23.13	3.18	-	-
5/1/15	2.00	1	0.58	19.79	22.02	2.23	21.12	21.95	0.83	22.16	23.83	1.67	21.64	24.33	2.69	19.72	22.76	3.04	-	-
6/5/15	1.85	1	0.23	19.41	21.18	1.77	20.49	21.12	0.63	21.35	22.79	1.44	20.99	23.25	2.26	19.38	21.96	2.58	-	-
7/2/15	1.60	1	0.09	19.22	20.45	1.23	20.22	20.46	0.24	21.02	21.98	0.96	20.68	22.39	1.71	19.22	21.34	2.12	-	-
8/7/15	1.30	1	3.28	19.07	19.85	0.78	19.93	19.85	-0.08	20.61	21.11	0.50	20.34	21.54	1.20	19.05	20.75	1.70	-	-
9/4/15	1.09	1	0.83	19.04	20.69	1.65	19.78	20.41	0.63	20.37	21.44	1.07	20.14	21.88	1.74	19.02	21.22	2.20	-	-
10/16/15	0.92	1	4.81	18.88	20.98	2.10	19.59	20.67	1.08	20.13	21.53	1.40	19.99	22.03	2.04	18.88	21.50	2.62	-	-
11/6/15	1.20	1	8.37	19.02	21.71	2.69	19.68	21.36	1.68	20.20	22.48	2.28	20.04	23.02	2.98	18.91	22.09	3.18	-	-
12/4/15	1.67	1	11.21	19.61	22.58	2.97	20.50	22.47	1.97	21.07	24.10	3.03	20.91	24.57	3.66	19.39	23.33	3.94	-	-
2015 Shallow Averages				19.55	21.65	2.10	20.63	21.57	0.94	21.44	23.08	1.64	21.05	23.56	2.51	19.43	22.33	2.90	-	-
1/16/16	2.10	1	7.45	20.06	23.06	3.00	21.27	NM	-	22.06	24.90	2.84	21.71	25.32	3.61	19.82	NM	-	-	-
2/5/16	0.26	1	5.97	20.45	23.48	3.03	21.78	23.40	1.62	22.70	25.43	2.73	22.15	25.85	3.70	20.24	24.20	3.96	-	-
3/4/16	2.46	1	5.52	20.50	23.67	3.17	22.15	23.56	1.41	23.17	25.61	2.44	22.48	26.00	3.52	20.12	24.37	4.25	-	-
4/1/16	1.69	1	1.19	20.07	22.80	2.73	21.59	22.78	1.19	22.75	24.73	1.98	22.12	25.22	3.10	19.91	23.52	3.61	-	-
5/6/16	1.94	1	0.94	19.62	21.82	2.20	20.82	21.80	0.98	21.76	23.55	1.79	21.39	24.02	2.63	19.56	22.61	3.05	-	-
6/2/16	1.61	1	1.77	19.40	21.57	2.17	20.47	21.59	1.12	21.34	22.88	1.54	21.02	23.32	2.30	19.40	22.25	2.85	-	-
7/7/16	1.47	1	0.72	19.21	21.20	1.99	20.25	21.06	0.81	21.04	22.34	1.30	20.78	22.80	2.02	19.18	21.95	2.77	-	-
8/5/16	1.40	1	0.17	19.18	20.68	1.50	20.14	20.59	0.45	20.86	21.84	0.98	20.74	22.20	1.46	19.22	21.48	2.26	-	-

Table 2

Summary of Groundwater Elevations in Paired Monitoring Points
BSB Property, Kent, Washington

Date	Pump Rate (gpm)	Cell Pumped	Monthly Rainfall (inches)	Groundwater Elevations																
				Northeast Corner			North Boundary			Northwest Corner			Southwest Corner			East Boundary			Center	
				Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	ΔH
9/26/16	1.20	1	1.05	18.98	20.33	1.35	NM	20.18	–	20.44	21.09	0.65	20.29	21.45	1.16	19.03	21.04	2.01	–	–
10/14/16	1.31	1	10.05	20.35	22.03	1.68	NM	21.71	–	20.61	21.87	1.26	20.49	22.24	1.75	19.24	22.64	3.40	–	–
11/11/16	1.60	1	6.48	19.97	22.70	2.73	NM	22.48	–	21.53	24.06	2.53	21.26	24.58	3.32	19.82	23.31	3.49	–	–
12/2/16	1.80	1	3.87	19.80	22.80	3.00	20.86	22.72	1.86	21.63	24.39	2.76	21.31	24.90	3.59	19.75	23.38	3.63	–	–
2016 Shallow Averages				19.80	22.18	2.38	21.04	21.99	1.18	21.66	23.56	1.90	21.31	23.99	2.68	19.61	22.80	3.21	–	–
1/13/17	2.00	1	4.22	19.84	22.43	2.59	20.96	22.21	1.25	21.74	24.06	2.32	21.29	24.51	3.22	19.67	22.95	3.28	–	–
2/3/17	2.07	1	8.85	19.88	22.69	2.81	21.51	22.68	1.17	22.64	24.59	1.95	22.05	25.13	3.08	19.83	23.52	3.69	–	–
3/3/17	3.30	1	7.31	20.40	23.41	3.01	21.95	23.51	1.56	23.06	25.59	2.53	22.33	25.77	3.44	20.02	24.26	4.24	–	–
4/6/17	1.96	1	3.27	–	–	–	22.92	23.76	0.84	–	–	–	–	–	–	–	–	–	–	–
5/4/17	3.33	1	2.28	20.64	23.37	2.73	22.39	23.29	0.90	23.78	24.94	1.16	22.95	25.38	2.43	20.34	23.88	3.54	–	–
6/27/17	2.01	1	1.52	19.52	21.69	2.17	20.62	21.77	1.15	21.50	23.16	1.66	21.20	23.50	2.30	19.55	22.37	2.82	–	–
7/13/17	1.55	1	0.00	19.56	21.21	1.65	20.78	21.19	0.41	–	–	–	–	–	–	–	–	–	–	–
9/25/17	1.05	1	0.59	19.56	20.67	1.11	20.99	20.26	-0.73	20.60	21.46	0.86	20.37	22.54	2.17	19.40	22.38	2.98	–	–
10/11/17	1.05	1	4.80	19.37	20.49	1.12	20.17	20.31	0.14	–	–	–	–	–	–	–	–	–	–	–
11/6/17	1.04	1	8.63	20.14	22.23	2.09	NM	21.87	–	–	–	–	–	–	–	–	–	–	–	–
12/14/17	1.70	1	5.43	20.61	22.15	1.54	21.56	22.11	0.55	22.17	23.90	1.73	21.99	24.43	2.44	20.62	22.94	2.32	–	–
2017 Shallow Averages				19.95	22.03	2.08	21.39	22.09	0.72	22.21	23.96	1.74	21.74	24.47	2.73	19.92	23.19	3.27	–	–
3/12/18	1.43	1	2.44	21.89	22.89	1.00	23.21	22.85	-0.36	24.04	24.41	0.37	23.49	24.66	1.17	21.69	23.40	1.71	–	–
6/30/18	1.40	1	0.63	19.35	21.10	1.75	NM	21.03	–	21.31	22.39	1.08	20.99	22.82	1.83	19.46	21.91	2.45	–	–
9/17/18	1.50	1	1.04	19.04	20.88	1.84	19.90	20.49	0.59	20.62	20.93	0.31	20.37	21.45	1.08	19.18	21.15	1.97	–	–
12/10/18	1.19	1	6.08	19.41	22.37	2.96	20.23	22.03	1.80	20.81	23.03	2.22	21.02	23.72	2.70	19.49	22.76	3.27	–	–
2018 Shallow Averages				19.92	21.81	1.89	21.11	21.60	0.68	21.70	22.69	1.00	21.47	23.16	1.70	19.96	22.31	2.35	–	–
3/18/19	2.50	1	1.37	20.10	22.60	2.50	NM	22.42	–	22.80	24.06	1.26	22.18	24.58	2.40	19.98	23.16	3.18	–	–
6/21/19	0.75	1	0.90	21.63	21.69	0.06	NM	21.34	–	22.34	22.38	0.04	22.18	22.85	0.67	21.76	21.96	0.20	–	–
9/3/19	1.27	1	3.32	19.19	20.35	1.16	20.10	20.16	0.06	20.89	21.07	0.18	20.61	21.51	0.90	19.28	21.05	1.77	–	–
12/9/19	1.30	1	7.96	19.28	21.82	2.54	20.14	21.54	1.40	20.79	22.57	1.78	20.54	23.08	2.54	19.32	22.13	2.81	–	–
2019 Shallow Averages				20.05	21.62	1.57	20.12	21.37	0.73	21.71	22.52	0.82	21.38	23.01	1.63	20.09	22.08	1.99	–	–
3/2/20	2.25	1	3.17	20.39	22.92	2.53	21.47	22.86	1.39	22.27	24.54	2.27	21.91	25.00	3.09	20.36	23.35	2.99	–	–
6/4/20	0.00	1	2.28	19.93	22.21	2.28	21.10	22.01	0.91	NM	22.13	–	21.50	23.85	2.35	19.94	22.68	2.74	–	–
9/4/20	1.30	1	2.48	19.14	20.40	1.26	20.10	20.33	0.23	20.89	21.28	0.39	20.64	21.69	1.05	19.18	21.15	1.97	–	–
2020 Shallow Averages				19.82	21.84	2.02	20.89	21.73	0.84	21.58	22.65	1.33	21.35	23.51	2.16	19.83	22.39	2.57	–	–
Intermediate																				
2/6/12	–	–	3.63	23.07	22.27	-0.80	23.34	22.55	-0.79	23.57	23.94	0.37	23.62	25.09	1.47	22.91	23.50	0.59	23.42	–
2/24/12	–	–	–	22.26	22.41	0.15	22.53	22.66	0.13	22.80	24.00	1.20	22.85	25.18	2.33	22.12	23.59	1.47	22.63	–
3/13/12	–	–	7.20	24.52	22.53	-1.99	24.64	22.45	-2.19	24.74	24.14	-0.60	24.79	25.54	0.75	24.46	23.82	-0.64	24.49	–

Table 2

Summary of Groundwater Elevations in Paired Monitoring Points
BSB Property, Kent, Washington

Date	Pump Rate (gpm)	Cell Pumped	Monthly Rainfall (inches)	Groundwater Elevations																
				Northeast Corner			North Boundary			Northwest Corner			Southwest Corner			East Boundary			Center	
				Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	ΔH
3/27/12	0.6	6	-	26.11	22.46	-3.65	26.14	22.71	-3.43	26.20	24.13	-2.07	26.18	25.28	-0.90	26.13	23.64	-2.49	26.14	-
4/9/12	2.0	6	2.68	25.85	22.32	-3.53	25.92	22.14	-3.78	26.02	24.10	-1.92	26.02	25.30	-0.72	25.86	23.58	-2.28	25.95	-
4/26/12	3.0	6	-	24.22	22.20	-2.02	24.43	22.18	-2.25	24.67	23.92	-0.75	24.70	25.24	0.54	24.11	23.47	-0.64	24.44	-
5/4/12	4.0	6	2.05	23.42	21.83	-1.59	23.85	22.45	-1.40	24.05	23.88	-0.17	24.08	25.25	1.17	23.55	23.35	-0.20	23.92	-
5/7/12	4.0	6	-	23.27	21.79	-1.48	23.74	22.31	-1.43	23.95	23.82	-0.13	23.99	25.05	1.06	23.40	23.27	-0.13	23.81	-
5/10/12	4.0	6	-	22.87	21.54	-1.33	23.33	22.05	-1.28	23.56	23.58	0.02	23.59	24.81	1.22	22.99	22.95	-0.04	23.43	-
6/11/12	2.5	6	2.96	21.57	21.51	-0.06	22.01	21.95	-0.06	22.91	23.37	0.46	22.23	24.54	2.31	21.71	22.93	1.22	22.08	-
6/25/12	2.5	6	-	21.39	21.42	0.03	21.81	21.90	0.09	21.97	23.21	1.24	21.99	24.43	2.44	21.55	22.84	1.29	21.87	-
6/26/12	2.5	6	-	21.79	21.31	-0.48	22.13	21.80	-0.33	22.24	23.15	0.91	22.24	24.34	2.10	21.96	22.73	0.77	22.16	-
7/3/12	2.5	6	1.04	21.07	21.07	0.00	21.50	21.56	0.06	21.67	22.88	1.21	21.68	24.05	2.37	21.21	22.44	1.23	21.55	-
7/18/12	2.5	6	-	20.72	20.66	-0.06	21.12	21.13	0.01	21.29	22.39	1.10	21.29	23.48	2.19	20.87	21.99	1.12	21.18	-
8/2/12	2.0	6	0.00	20.53	20.46	-0.07	20.91	20.93	0.02	21.06	22.21	1.15	21.06	23.22	2.16	20.69	21.83	1.14	20.98	-
8/9/12	2.0	6	-	20.37	20.31	-0.06	20.75	20.75	0.00	20.89	21.97	1.08	20.88	22.99	2.11	20.51	21.65	1.14	20.81	-
8/20/12	1.5	6	-	20.44	20.11	-0.33	20.78	20.55	-0.23	20.90	21.72	0.82	20.90	22.69	1.79	20.61	21.50	0.89	20.85	-
9/19/12	1.0	6	0.03	20.11	19.71	-0.40	20.44	20.08	-0.36	20.52	21.06	0.54	20.54	22.02	1.48	20.29	21.03	0.74	20.47	-
10/8/12	1.0	6	6.71	20.37	19.64	-0.73	20.67	20.00	-0.67	20.75	20.84	0.09	20.70	21.68	0.98	20.58	20.90	0.32	20.69	-
11/9/12	1.0	6	8.28	22.24	21.12	-1.12	22.50	21.50	-1.00	22.58	22.50	-0.08	22.53	23.61	1.08	22.44	22.47	0.03	22.52	-
12/3/12	1.0	6	6.85	23.84	21.76	-2.08	24.15	22.28	-1.87	24.17	23.75	-0.42	24.10	25.39	1.29	24.15	23.56	-0.59	24.14	-
2012 Intermediate Averages				22.42	21.29	-1.12	22.72	21.63	-1.09	22.91	22.97	0.06	22.85	24.15	1.30	22.53	22.67	0.14	22.75	-
1/4/13	1.5	6	4.16	24.74	21.67	-3.07	24.95	22.21	-2.74	25.05	23.77	-1.28	25.07	25.06	-0.01	24.95	23.23	-1.72	24.99	-
1/24/13	3.0	6	-	23.39	21.46	-1.93	23.75	21.95	-1.80	23.88	23.48	-0.40	23.89	24.73	0.84	23.56	22.95	-0.61	23.81	-
2/1/13	2.0	6	1.58	24.28	21.83	-2.45	24.63	22.30	-2.33	24.71	23.82	-0.89	24.70	25.04	0.34	24.55	23.35	-1.20	24.60	-
3/1/13	3.0	1 & 6	2.74	22.54	21.43	-1.11	22.95	21.95	-1.00	23.10	23.32	0.22	23.11	24.56	1.45	22.69	22.95	0.26	23.10	-
4/5/13	2.8	1 & 6	5.89	21.66	21.29	-0.37	22.07	21.80	-0.27	22.26	23.13	0.87	22.27	24.43	2.16	21.76	22.81	1.05	22.13	-
5/3/13	3.0	6	2.38	22.28	21.46	-0.82	22.66	21.97	-0.69	22.85	23.39	0.54	22.87	24.62	1.75	22.38	22.93	0.55	22.75	-
5/14/13	0.6	6	-	22.26	21.14	-1.12	22.60	21.64	-0.96	22.71	23.05	0.34	22.70	24.20	1.50	22.43	22.55	0.12	22.63	-
6/7/13	1.8	6	1.30	22.40	20.88	-1.52	22.75	21.36	-1.39	22.87	22.78	-0.09	22.87	23.92	1.05	22.53	22.35	-0.18	22.79	-
7/12/13	2.0	1	0.00	21.13	20.44	-0.69	21.45	20.85	-0.60	21.70	22.06	0.36	21.62	23.13	1.51	21.37	21.83	0.46	21.51	-
8/6/13	1.5	1	1.35	21.01	19.95	-1.06	21.34	20.38	-0.96	21.44	21.40	-0.04	21.41	22.44	1.03	21.18	21.34	0.16	21.37	-
9/9/13	1.5	1	6.17	20.45	20.38	-0.07	20.76	20.80	0.04	20.87	21.79	0.92	20.85	22.93	2.08	20.62	21.81	1.19	20.82	-
10/11/13	1.0	1	1.54	20.88	21.09	0.21	21.10	21.51	0.41	21.29	22.65	1.36	21.25	23.90	2.65	21.06	22.47	1.41	21.21	-
11/8/13	1.0	1	3.79	21.12	20.81	-0.31	21.40	21.25	-0.15	21.47	22.46	0.99	21.43	23.76	2.33	21.31	22.40	1.09	21.43	-
12/6/13	1.0	1	1.66	21.41	20.77	-0.64	21.65	21.19	-0.46	21.71	22.39	0.68	21.72	23.51	1.79	21.60	22.15	0.55	21.70	-
2013 Intermediate Averages				21.99	21.00	-0.99	22.31	21.46	-0.84	22.44	22.75	0.30	22.43	23.94	1.51	22.17	22.47	0.30	22.37	-
1/13/14	1.0	1	3.70	22.18	21.14	-1.04	22.45	21.59	-0.86	22.52	22.96	0.44	22.48	24.43	1.95	22.35	22.74	0.39	22.48	-
2/7/14	1.5	1	6.11	22.03	20.97	-1.06	22.22	21.42	-0.80	22.33	22.77	0.44	22.30	24.01	1.71	22.07	22.52	0.45	22.25	-

Table 2

**Summary of Groundwater Elevations in Paired Monitoring Points
BSB Property, Kent, Washington**

Date	Pump Rate (gpm)	Cell Pumped	Monthly Rainfall (inches)	Groundwater Elevations																
				Northeast Corner			North Boundary			Northwest Corner			Southwest Corner			East Boundary			Center	
				Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	ΔH
3/14/14	1.5	1	9.44	24.23	22.43	-1.80	24.52	22.91	-1.61	24.61	24.41	-0.20	24.60	25.74	1.14	23.45	24.08	0.63	24.53	–
4/11/14	1.5	1	4.18	24.17	21.77	-2.40	24.50	22.27	-2.23	24.61	23.76	-0.85	24.59	25.01	0.42	24.36	23.30	-1.06	24.52	–
5/8/14	1.5	1	3.15	24.79	22.19	-2.60	25.13	22.66	-2.47	25.20	24.10	-1.10	25.21	25.37	0.16	24.98	23.82	-1.16	25.13	–
6/5/14	1.5	1	0.73	23.47	21.10	-2.37	23.65	21.55	-2.10	23.85	22.96	-0.89	23.85	24.09	0.24	23.61	22.50	-1.11	23.79	–
7/3/14	2.5	1	0.77	21.35	20.52	-0.83	21.72	20.94	-0.78	21.86	22.19	0.33	21.85	23.25	1.40	21.50	21.84	0.34	21.76	–
8/6/14	1.75	1	1.81	20.60	20.12	-0.48	20.94	20.51	-0.43	21.04	21.55	0.51	21.04	22.56	1.52	20.78	21.44	0.66	20.99	–
9/4/14	1.48	1	2.23	20.25	20.16	-0.09	20.56	18.55 ^a	-2.01	20.66	21.53	0.87	20.64	22.61	1.97	20.42	21.60	1.18	20.60	–
10/10/14	1.13	1	6.75	20.12	19.94	-0.18	20.40	20.34	-0.06	20.50	21.26	0.76	20.45	22.27	1.82	20.29	21.29	1.00	20.44	–
11/13/14	1.80	1	4.84	21.04	21.34	0.30	21.37	21.74	0.37	21.47	22.94	1.47	21.46	24.11	2.65	21.20	22.76	1.56	21.42	–
12/5/14	2.00	1	4.79	21.09	21.45	0.36	21.42	21.88	0.46	21.51	23.18	1.67	21.55	24.44	2.89	21.23	22.86	1.63	21.46	–
2014 Intermediate Averages				22.11	21.09	-1.02	22.41	21.62	-1.04	22.51	22.80	0.29	22.50	23.99	1.49	22.19	22.56	0.38	22.45	–
1/14/15	2.00	1	3.66	21.37	21.77	0.40	21.72	22.22	0.50	21.87	23.51	1.64	21.86	24.67	2.81	21.51	23.11	1.60	21.79	–
2/13/15	2.50	1	5.27	21.80	22.38	0.58	22.17	22.34	0.17	22.32	24.21	1.89	22.31	25.49	3.18	21.92	23.80	1.88	22.23	–
3/13/15	2.29	1	4.47	21.17	21.64	0.47	21.53	22.11	0.58	21.66	23.44	1.78	21.65	24.64	2.99	21.11	22.97	1.86	21.57	–
4/10/15	2.60	1	2.03	21.53	21.80	0.27	21.88	22.26	0.38	22.01	23.58	1.57	22.00	24.76	2.76	21.68	23.10	1.42	21.94	–
5/1/15	2.00	1	0.58	21.16	21.41	0.25	21.51	21.85	0.34	21.63	23.15	1.52	21.62	24.29	2.67	21.33	22.75	1.42	21.55	–
6/5/15	1.85	1	0.23	20.55	20.71	0.16	20.85	21.12	0.27	20.98	22.21	1.23	21.00	23.24	2.24	20.75	21.98	1.23	20.92	–
7/2/15	1.60	1	0.09	20.27	20.21	-0.06	20.59	20.57	-0.02	20.65	21.46	0.81	20.70	22.39	1.69	20.48	21.40	0.92	20.64	–
8/7/15	1.30	1	3.28	19.95	19.67	-0.28	20.26	20.00	-0.26	20.33	20.71	0.38	20.30	21.54	1.24	20.14	20.87	0.73	20.28	–
9/4/15	1.09	1	0.83	19.80	19.94	0.14	20.08	20.28	0.20	20.14	20.94	0.80	20.10	21.88	1.78	20.00	21.23	1.23	20.11	–
10/16/15	0.92	1	4.81	19.65	20.26	0.61	19.93	20.56	0.63	20.00	21.12	1.12	19.97	22.04	2.07	19.86	21.56	1.70	19.96	–
11/6/15	1.20	1	8.37	19.69	20.70	1.01	19.98	21.02	1.04	20.04	21.86	1.82	20.01	23.02	3.01	19.90	22.07	2.17	20.02	–
12/4/15	1.67	1	11.21	20.52	21.64	1.12	20.84	22.04	1.20	20.79	23.19	2.40	20.90	24.59	3.69	20.68	23.13	2.45	20.86	–
2015 Intermediate Averages				20.62	21.01	0.39	20.95	21.36	0.42	21.04	22.45	1.41	21.04	23.55	2.51	20.78	22.33	1.55	20.99	–
1/6/16	2.10	1	7.45	21.27	22.29	1.02	21.62	22.73	1.11	21.70	24.09	2.39	21.69	25.29	3.60	21.42	23.69	2.27	21.68	–
2/5/16	0.26	1	5.97	21.66	22.61	0.95	22.04	23.09	1.05	22.13	24.47	2.34	22.11	25.80	3.69	21.84	25.08	3.24	22.84	–
3/4/16	2.46	1	5.52	21.94	22.82	0.88	22.34	23.30	0.96	22.47	24.65	2.18	22.46	25.99	3.53	22.08	24.23	2.15	22.39	–
4/1/16	1.69	1	1.19	21.61	22.20	0.59	21.98	22.67	0.69	22.10	23.99	1.89	22.11	25.20	3.09	21.78	23.45	1.67	22.03	–
5/6/16	1.94	1	0.94	20.93	21.36	0.43	21.28	21.81	0.53	21.37	22.94	1.57	21.37	23.98	2.61	21.12	22.62	1.50	21.31	–
6/2/16	1.61	1	1.77	20.65	21.01	0.36	20.95	21.41	0.46	21.02	22.34	1.32	21.00	23.29	2.29	20.80	22.25	1.45	20.95	–
7/7/16	1.47	1	0.72	20.37	20.74	0.37	20.70	21.10	0.40	20.76	21.86	1.10	20.69	22.83	2.14	20.55	21.95	1.40	20.72	–
8/5/16	1.40	1	0.17	20.23	20.34	0.11	20.54	20.69	0.15	20.62	21.37	0.75	20.60	22.23	1.63	20.43	21.55	1.12	20.57	–
9/26/16	1.20	1	1.05	19.87	19.93	0.06	20.16	20.25	0.09	20.23	20.71	0.48	20.19	21.46	1.27	20.06	21.14	1.08	20.19	–
10/14/16	1.31	1	10.05	19.08	20.89	1.81	20.45	21.17	0.72	20.49	21.34	0.85	20.46	22.34	1.88	20.34	22.15	1.81	20.47	–
11/11/16	1.60	1	6.48	20.89	21.80	0.91	21.19	22.23	1.04	21.28	23.32	2.04	21.24	24.60	3.36	21.08	23.24	2.16	21.22	–

Table 2

Summary of Groundwater Elevations in Paired Monitoring Points
BSB Property, Kent, Washington

Date	Pump Rate (gpm)	Cell Pumped	Monthly Rainfall (inches)	Groundwater Elevations																
				Northeast Corner			North Boundary			Northwest Corner			Southwest Corner			East Boundary			Center	
				Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	ΔH
12/2/16	1.80	1	3.87	20.90	21.86	0.96	21.22	22.34	1.12	21.30	23.58	2.28	22.31	24.88	2.57	21.11	23.24	2.13	21.26	-
2016 Intermediate Averages				20.78	21.49	0.70	21.21	21.90	0.69	21.29	22.89	1.60	21.35	23.99	2.64	21.05	22.88	1.83	21.30	-
1/13/17	2.00	1	4.22	20.96	21.64	0.68	21.15	22.05	0.90	21.30	23.31	2.01	21.30	24.53	3.23	21.09	22.84	1.75	21.27	-
2/3/17	2.07	1	8.85	21.50	22.07	0.57	21.87	22.59	0.72	21.94	23.85	1.91	22.00	25.11	3.11	21.62	23.35	1.73	21.93	-
3/3/17	3.30	1	7.31	21.81	22.68	0.87	22.26	23.28	1.02	22.35	24.61	2.26	22.32	25.85	3.53	21.90	24.04	2.14	22.35	-
4/6/17	1.96	1	3.27	-	-	-	19.98	23.38	3.40	-	-	-	-	-	-	-	-	-	-	-
5/4/17	3.33	1	2.28	22.40	22.53	0.13	22.87	24.02	1.15	22.90	24.19	1.29	22.92	25.38	2.46	22.51	23.78	1.27	22.81	-
6/27/17	2.01	1	1.52	20.81	21.10	0.29	21.08	21.61	0.53	21.23	22.54	1.31	21.10	23.46	2.36	20.88	22.34	1.46	21.00	-
7/13/17	1.55	1	0.00	20.91	20.92	0.01	21.22	21.33	0.11	-	-	-	-	-	-	-	-	-	-	-
9/25/17	1.05	1	0.59	20.45	20.37	-0.08	20.84	20.30	-0.54	20.88	20.95	0.07	20.39	22.61	2.22	19.77	21.35	1.58	20.71	-
10/11/17	1.05	1	4.80	20.23	20.07	-0.16	20.49	20.39	-0.10	-	-	-	-	-	-	-	-	-	-	-
11/6/17	1.04	1	8.63	20.55	21.06	0.51	20.81	21.40	0.59	-	-	-	-	-	-	-	-	-	-	-
12/14/17	1.70	1	5.43	21.58	21.64	0.06	21.85	22.12	0.27	22.12	23.22	1.10	22.00	24.40	2.40	21.77	22.91	1.14	21.89	-
2017 Intermediate Averages				21.12	21.41	0.29	21.31	22.04	0.73	21.82	23.24	1.42	21.72	24.48	2.76	21.36	22.94	1.58	-	-
3/12/18	1.43	1	2.44	23.10	22.03	-1.07	NM	22.56	-	23.71	23.59	-0.12	23.50	24.99	1.49	23.26	23.23	-0.03	23.46	-
6/30/18	1.40	1	0.63	20.56	20.74	0.18	20.90	21.12	0.22	21.15	21.92	0.77	20.96	22.84	1.88	20.74	21.93	1.19	20.96	-
9/17/18	1.50	1	1.04	20.01	20.06	0.05	NM	20.36	-	NM	20.67	-	20.36	21.45	1.09	20.23	21.24	1.01	20.30	-
12/10/18	1.19	1	6.08	20.34	21.23	0.89	20.94	NM	-	NM	22.33	-	21.00	23.80	2.80	20.56	22.61	2.05	20.67	-
2018 Intermediate Averages				21.00	21.02	0.01	20.92	21.35	0.22	22.43	22.13	0.33	21.46	23.27	1.82	21.20	22.25	1.06	21.35	-
3/18/19	2.50	1	1.37	21.74	21.87	0.13	22.06	22.32	0.26	22.15	23.41	1.26	22.15	24.55	2.40	21.80	23.13	1.33	22.18	-
6/21/19	0.75	1	0.90	21.89	20.81	-1.08	22.16	NM	-	22.15	21.86	-0.29	22.15	22.89	0.74	22.14	21.96	-0.18	22.18	-
9/3/19	1.27	1	3.32	20.20	20.01	-0.19	20.49	20.30	-0.19	20.58	20.75	0.17	20.58	21.54	0.96	20.44	21.15	0.71	20.56	-
12/9/19	1.30	1	7.96	20.21	20.84	0.63	20.49	21.23	0.74	20.56	22.03	1.47	20.52	23.09	2.57	20.42	22.07	1.65	20.57	-
2019 Intermediate Averages				21.01	20.88	-0.13	21.30	21.28	0.27	21.36	22.01	0.65	21.35	23.02	1.67	21.20	22.08	0.88	21.38	-
3/2/20	2.25	1	3.17	21.51	22.09	0.58	21.85	22.57	0.72	21.89	23.79	1.90	21.89	24.98	3.09	21.71	23.28	1.57	21.86	-
6/4/20	0.00	1	2.28	21.08	21.35	0.27	NM	21.87	-	NM	22.76	-	21.49	23.86	2.37	21.32	22.66	1.34	21.43	-
9/4/20	1.30	1	2.48	20.21	20.19	-0.02	20.53	20.50	-0.03	20.61	20.94	0.33	20.60	21.74	1.14	20.43	21.25	0.82	20.57	-
2020 Intermediate Averages				20.93	21.21	0.28	21.19	21.65	0.34	21.25	22.50	1.12	21.33	23.53	2.20	21.15	22.40	1.24	21.29	-
Deep																				
2/6/12	-	-	3.63	-	23.94	1.67	-	24.06	1.51	-	24.44	0.50	-	25.03	-0.06	24.15	-	1.24	24.12	0.71
2/24/12	-	-	-	-	23.96	1.55	-	23.19	0.53	-	24.48	0.48	-	25.04	-0.14	24.15	-	2.03	24.14	1.51
3/13/12	-	-	7.20	-	24.13	1.60	-	24.30	1.85	-	24.64	0.50	-	25.13	-0.41	24.36	-	-0.10	24.34	-0.14
3/27/12	-	-	-	-	24.42	1.96	-	24.54	1.83	-	24.94	0.81	-	25.43	0.15	24.56	-	-1.57	24.56	-1.58
4/9/12	-	-	2.68	-	24.18	1.86	-	22.94	0.80	-	24.77	0.67	-	25.25	-0.05	24.40	-	-1.46	24.40	-1.54
5/4/12	-	-	2.05	-	23.73	1.90	-	23.91	1.46	-	24.24	0.36	-	24.87	-0.38	23.91	-	0.36	23.86	-0.06

Table 2

Summary of Groundwater Elevations in Paired Monitoring Points
BSB Property, Kent, Washington

Date	Pump Rate (gpm)	Cell Pumped	Monthly Rainfall (inches)	Groundwater Elevations																
				Northeast Corner			North Boundary			Northwest Corner			Southwest Corner			East Boundary			Center	
				Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	ΔH
5/7/12	-	-	-	-	23.71	1.92	-	23.86	1.55	-	24.27	0.45	-	24.83	-0.22	23.92	-	0.52	23.90	0.09
5/10/12	-	-	-	-	22.58	1.04	-	23.70	1.65	-	24.09	0.51	-	24.75	-0.06	23.73	-	0.74	23.72	0.29
6/11/12	-	-	2.96	-	23.44	1.93	-	23.62	1.67	-	23.98	0.61	-	24.57	0.03	23.66	-	1.95	23.65	1.57
6/25/12	-	-	-	-	23.36	1.94	-	23.53	1.63	-	23.90	0.69	-	23.49	-0.94	23.56	-	2.01	23.55	1.68
7/3/12	-	-	1.04	-	23.16	2.09	-	23.34	1.78	-	23.73	0.85	-	24.25	0.20	23.37	-	2.16	23.37	1.82
7/18/12	-	-	-	-	22.91	2.25	-	23.09	1.96	-	23.47	1.08	-	23.95	0.47	23.13	-	2.26	23.12	1.93
8/9/12	-	-	0.00	-	22.59	2.28	-	22.75	2.00	-	23.04	1.07	-	23.62	0.63	22.74	-	2.23	22.72	1.91
9/19/12	-	-	0.03	-	21.93	2.22	-	22.05	1.97	-	22.37	1.31	-	22.78	0.76	22.10	-	1.81	22.09	1.62
10/8/12	-	-	6.71	-	21.91	2.27	-	22.06	2.06	-	22.33	1.49	-	22.71	1.03	22.05	-	1.47	22.05	1.36
11/9/12	-	-	8.28	-	22.79	1.67	-	22.45	0.95	-	23.19	0.69	-	23.69	0.08	22.95	-	0.51	22.94	0.42
12/3/12	-	-	6.85	-	23.44	1.68	-	23.48	1.20	-	23.87	0.12	-	24.49	-0.90	23.63	-	-0.52	23.64	-0.50
2012 Deep Averages				-	23.20	1.92	-	23.18	1.57	-	23.69	0.74	-	24.22	0.08	23.39	-	0.88	23.38	0.65
1/4/13	-	-	4.16	-	23.64	1.97	-	22.18	-0.03	-	24.14	0.37	-	24.72	-0.34	24.00	-	-0.95	23.91	-1.09
1/24/13	-	-	-	-	23.59	2.13	-	23.67	1.72	-	24.19	0.71	-	24.70	-0.03	23.81	-	0.25	23.83	0.02
2/1/13	-	-	1.58	-	23.57	1.74	-	23.45	1.15	-	24.09	0.27	-	24.58	-0.46	23.75	-	-0.80	23.80	-0.80
3/1/13	-	-	2.74	-	23.25	1.82	-	NM	-	-	23.80	0.48	-	24.33	-0.23	23.45	-	0.76	23.49	0.39
4/5/13	-	-	5.89	-	23.41	2.12	-	23.62	1.82	-	24.00	0.87	-	24.52	0.09	23.62	-	1.86	23.66	1.53
5/3/13	-	-	2.38	-	23.49	2.03	-	23.67	1.70	-	24.04	0.65	-	24.68	0.06	22.71	-	0.33	23.40	0.65
5/14/13	-	-	-	-	23.26	2.12	-	23.50	1.86	-	23.86	0.81	-	24.39	0.19	23.45	-	1.02	23.47	0.84
6/7/13	-	-	1.30	-	23.09	2.21	-	23.29	1.93	-	23.66	0.88	-	24.16	0.24	23.28	-	0.75	23.31	0.52
7/12/13	-	-	0.00	-	22.66	2.22	-	22.83	1.98	-	23.18	1.12	-	23.66	0.53	22.81	-	1.44	22.85	1.34
8/6/13	-	-	1.35	-	22.27	2.32	-	22.42	2.04	-	22.74	1.34	-	23.26	0.82	22.40	-	1.22	22.45	1.07
9/9/13	-	-	6.17	-	22.23	1.85	-	22.30	1.50	-	22.60	0.81	-	23.11	0.18	22.32	-	1.70	22.36	1.54
10/11/13	-	-	1.54	-	22.69	1.60	-	22.72	1.21	-	23.14	0.49	-	23.12	-0.78	22.82	-	1.76	22.86	1.64
11/8/13	-	-	3.79	-	22.61	1.80	-	22.75	1.50	-	23.06	0.60	-	23.60	-0.16	22.76	-	1.45	22.80	1.37
12/6/13	-	-	1.66	-	22.78	2.01	-	NM	-	-	23.40	1.01	-	23.67	0.16	22.95	-	1.35	22.99	1.29
2013 Deep Averages				-	22.97	1.97	-	22.92	1.48	-	23.49	0.74	-	23.95	0.01	23.07	-	0.91	23.15	0.79
1/13/14	-	-	3.70	-	22.87	1.73	-	NM	-	-	23.31	0.35	-	23.88	-0.55	23.08	-	0.73	23.05	0.57
2/7/14	-	-	6.11	-	23.24	2.27	-	23.43	2.01	-	23.85	1.08	-	-	-	23.49	-	1.42	23.51	1.26
3/14/14	-	-	9.44	-	24.18	1.75	-	24.42	1.51	-	23.74	-0.67	-	25.38	-0.36	24.45	-	1.00	24.45	-0.08
4/11/14	-	-	4.18	-	23.78	2.01	-	23.99	1.72	-	24.39	0.63	-	24.94	-0.07	24.08	-	-0.28	24.09	-0.43
5/8/14	-	-	3.15	-	24.08	1.89	-	24.29	1.63	-	24.67	0.57	-	25.24	-0.13	24.38	-	-0.60	24.38	-0.75
6/5/14	-	-	0.73	-	23.26	2.16	-	23.55	2.00	-	23.85	0.89	-	24.38	0.29	23.51	-	-0.10	23.52	-0.28
7/3/14	-	-	0.77	-	22.69	2.17	-	22.88	1.94	-	23.25	1.06	-	23.70	0.45	22.95	-	1.45	22.95	1.18
8/6/14	-	-	1.81	-	22.20	2.08	-	22.39	1.88	-	22.71	1.16	-	23.14	0.58	22.45	-	1.67	22.45	1.46
9/4/14	-	-	2.23	-	22.06	1.90	-	22.20	3.65	-	22.51	0.98	-	23.00	0.39	22.30	-	1.88	22.29	1.69

Table 2

Summary of Groundwater Elevations in Paired Monitoring Points
BSB Property, Kent, Washington

Date	Pump Rate (gpm)	Cell Pumped	Monthly Rainfall (inches)	Groundwater Elevations																
				Northeast Corner			North Boundary			Northwest Corner			Southwest Corner			East Boundary			Center	
				Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	ΔH
10/10/14	-	-	6.75	-	22.00	2.06	-	22.23	1.89	-	22.44	1.18	-	22.93	0.66	22.24	-	1.95	22.22	1.77
11/13/14	-	-	4.84	-	23.04	1.70	-	23.26	1.52	-	23.55	0.61	-	24.07	-0.04	23.28	-	2.08	23.29	1.87
12/5/14	-	-	4.79	-	23.25	1.80	-	23.49	1.61	-	23.81	0.63	-	24.38	-0.06	23.51	-	2.28	23.53	2.07
2014 Deep Averages				-	23.05	1.96	-	23.28	1.94	-	23.51	0.71	-	24.09	0.11	23.31	-	1.12	23.31	0.86
1/14/15	-	-	3.66	-	23.46	1.69	-	23.72	1.50	-	24.05	0.54	-	24.56	-0.11	23.71	-	2.20	23.73	1.94
2/13/15	-	-	5.27	-	23.93	1.55	-	24.15	1.81	-	24.47	0.26	-	25.12	-0.37	24.16	-	2.24	24.19	1.96
3/13/15	-	-	4.47	-	23.51	1.87	-	23.79	1.68	-	24.16	0.72	-	24.65	0.01	23.75	-	2.64	23.78	2.21
4/10/15	-	-	2.03	-	23.68	1.88	-	23.96	1.70	-	24.30	0.72	-	24.80	0.04	23.92	-	2.24	23.96	2.02
5/1/15	-	-	0.58	-	23.31	1.90	-	23.58	1.73	-	23.91	0.76	-	24.40	0.11	23.53	-	2.20	23.55	2.00
6/5/15	-	-	0.23	-	22.68	1.97	-	22.87	1.75	-	23.19	0.98	-	23.65	0.41	22.88	-	2.13	22.90	1.98
7/2/15	-	-	0.09	-	22.22	2.01	-	22.45	1.88	-	22.72	1.26	-	23.14	0.75	22.45	-	1.97	22.48	1.84
8/7/15	-	-	3.28	-	21.68	2.01	-	21.89	1.89	-	22.11	1.40	-	22.50	0.96	21.87	-	1.73	21.89	1.61
9/4/15	-	-	0.83	-	21.60	1.66	-	21.74	1.46	-	21.98	1.04	-	22.39	0.51	21.77	-	1.77	21.78	1.66
10/16/15	-	-	4.81	-	21.86	1.60	-	21.96	1.40	-	22.20	1.08	-	22.66	0.62	22.01	-	2.15	22.01	2.05
11/6/15	-	-	8.37	-	22.05	1.35	-	22.12	1.10	-	22.38	0.52	-	22.91	-0.11	22.19	-	2.29	22.19	2.17
12/4/15	-	-	11.21	-	23.17	1.53	-	23.18	1.14	-	23.64	0.45	-	24.16	-0.43	23.37	-	2.69	23.38	2.52
2015 Deep Averages				-	22.76	1.75	-	22.95	1.59	-	23.26	0.81	-	23.75	0.20	22.97	-	2.19	22.98	2.00
1/6/16	-	-	7.45	-	24.14	1.85	-	24.34	1.61	-	24.73	0.64	-	25.25	-0.04	24.33	-	2.91	24.37	2.69
2/5/16	-	-	5.97	-	24.19	1.58	-	24.41	1.32	-	24.75	0.28	-	25.31	-0.49	22.33	-	0.49	23.73	0.89
3/4/16	-	-	5.52	-	24.41	1.59	-	24.67	1.37	-	25.04	0.39	-	25.54	-0.45	23.62	-	1.54	24.34	1.95
4/1/16	-	-	1.19	-	23.96	1.76	-	24.20	1.53	-	24.54	0.55	-	25.04	-0.16	24.15	-	2.37	24.20	2.17
5/6/16	-	-	0.94	-	23.30	1.94	-	23.54	1.73	-	23.85	0.91	-	24.31	0.33	23.47	-	2.35	23.53	2.23
6/2/16	-	-	1.77	-	22.92	1.91	-	23.14	1.73	-	23.40	1.06	-	23.83	0.54	23.05	-	2.25	23.09	2.14
7/7/16	-	-	0.72	-	22.65	1.91	-	22.85	1.75	-	23.12	1.26	-	23.38	0.55	22.80	-	2.25	22.85	2.13
8/5/16	-	-	0.17	-	22.30	1.96	-	22.55	1.86	-	22.76	1.39	-	23.18	0.95	22.45	-	2.02	22.49	1.92
9/26/16	-	-	1.05	-	21.77	1.84	-	21.94	1.69	-	22.20	1.49	-	22.57	1.11	21.92	-	1.86	21.95	1.76
10/14/16	-	-	10.05	-	22.35	1.46	-	22.42	1.25	-	22.75	1.41	-	23.11	0.77	22.48	-	2.14	22.52	2.05
11/11/16	-	-	6.48	-	23.28	1.48	-	23.44	1.21	-	23.74	0.42	-	24.29	-0.31	23.45	-	2.37	23.49	2.26
12/2/16	-	-	3.87	-	23.41	1.55	-	23.57	1.23	-	23.89	0.31	-	24.48	-0.40	23.58	-	2.47	23.62	2.36
2016 Deep Averages				-	23.22	1.74	-	23.42	1.52	-	23.73	0.84	-	24.19	0.20	23.14	-	2.09	23.35	2.05
1/13/17	-	-	4.22	-	23.20	1.56	-	23.44	1.39	-	23.69	0.38	-	24.18	-0.35	23.35	-	2.26	23.38	2.11
2/3/17	-	-	8.85	-	23.82	1.75	-	24.10	1.51	-	24.52	0.67	-	25.03	-0.08	24.32	-	2.70	24.19	2.26
3/3/17	-	-	7.31	-	24.28	1.60	-	24.64	1.36	-	24.94	0.33	-	25.52	-0.33	23.50	-	1.60	24.21	1.87
5/4/17	-	-	3.27	-	24.25	1.72	-	24.43	0.41	-	24.80	0.61	-	25.80	0.42	24.38	-	1.87	24.43	1.62
6/27/17	-	-	1.52	-	23.10	2.00	-	23.29	1.68	-	23.55	1.01	-	23.97	0.51	23.22	-	2.34	23.25	2.25
9/25/17	-	-	0.59	-	21.89	1.52	-	22.86	2.56	-	22.39	1.44	-	23.55	0.94	22.20	-	2.43	22.12	1.41

Table 2

Summary of Groundwater Elevations in Paired Monitoring Points
BSB Property, Kent, Washington

Date	Pump Rate (gpm)	Cell Pumped	Monthly Rainfall (inches)	Groundwater Elevations																
				Northeast Corner			North Boundary			Northwest Corner			Southwest Corner			East Boundary			Center	
				Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	ΔH
12/14/17	–	–	5.43	–	23.34	1.70	–	23.44	1.32	–	23.87	0.65	–	NM	–	23.69	–	1.92	23.63	1.74
2017 Deep Averages				–	23.41	1.69	–	23.74	1.46	–	23.97	0.73	–	24.68	0.19	23.52	–	2.16	23.60	1.89
3/12/18	–	–	2.44	–	23.86	1.83	–	NM	–	–	24.39	0.80	–	NM	–	24.15	–	0.89	24.12	0.66
6/30/18	–	–	0.63	–	22.69	1.95	–	22.85	1.73	–	NM	–	–	23.62	0.78	22.96	–	2.22	22.91	1.95
9/17/18	–	–	1.63	–	21.69	1.63	–	21.87	1.51	–	21.84	1.17	–	23.46	2.01	22.04	–	1.81	21.96	1.66
12/10/18	–	–	6.08	–	22.70	1.47	–	NM	–	–	22.89	0.56	–	23.59	-0.21	23.01	–	2.45	22.91	2.24
2018 Deep Averages				–	22.74	1.72	–	22.36	1.62	–	23.04	0.84	–	23.56	0.69	23.04	–	1.84	22.97	1.63
3/18/19	–	–	1.37	–	23.61	1.74	–	23.83	1.51	–	22.89	^b	–	24.62	0.07	23.94	–	2.14	23.89	1.71
6/21/19	–	–	0.90	–	22.70	1.89	–	22.73	–	–	21.75	^b	–	23.46	0.57	22.92	–	0.78	22.85	0.66
9/3/19	–	–	3.32	–	22.01	2.00	–	22.10	1.80	–	21.12	^b	–	22.78	1.24	22.24	–	1.80	22.17	1.61
12/9/19	–	–	7.96	–	22.56	1.72	–	22.63	1.40	–	21.73	^b	–	23.48	0.39	22.88	–	2.46	22.82	2.25
2019 Deep Averages				–	22.72	1.84	–	22.82	1.57	–	21.87	^b	–	23.59	0.57	23.00	–	1.80	22.93	1.56
3/2/20	–	–	3.17	–	23.89	1.80	–	24.14	1.57	–	23.24	^b	–	25.02	0.04	24.25	–	2.54	24.20	2.34
6/4/20	–	–	2.28	–	23.19	1.84	–	23.37	1.50	–	22.41	^b	–	24.16	0.30	23.45	–	2.13	23.41	1.98
9/4/20	–	–	–	–	22.14	1.95	–	22.33	1.83	–	21.32	^b	–	23.00	1.26	23.72	–	3.29	22.82	2.25
2020 Deep Averages				–	23.07	1.86	–	23.28	1.63	–	22.32	^b	–	24.06	0.53	23.81	–	2.65	23.48	2.19

Notes:

1. Shallow and intermediate groundwater comparisons are for monitoring points installed across the soil-bentonite cutoff wall from each other.
2. Deep to intermediate groundwater comparisons are for co-located monitoring monitoring points installed above and below the Layer C aquitard.
3. All elevations in feet relative to the North American Vertical Datum (NAVD 88).
4. ΔH = groundwater elevation difference; positive = inward or upward gradient, which is shaded in blue, and negative = outward or downward gradient, which is shaded in red.
5. – = not available or not applicable; NM = not measured; gpm = gallons per minutes; precipitation measured at SeaTac airport (station 457473).
6. Northeast corner monitoring points = inside: P-1 (shallow), P-2 (intermediate); outside: P-3 (shallow), P-4 (intermediate), HY-108 (deep).
7. North boundary monitoring points = inside: P-5 (shallow), P-6 (intermediate); outside: HYCP-7s (shallow), HYCP-7i (intermediate), HYCP-7d (deep).
8. Northwest corner monitoring points = inside: P-7 (shallow), P-8 (intermediate); outside: HY-1s (shallow), HY-1i (intermediate), HY-1d (deep).
9. Southwest corner monitoring points = inside: P-9 (shallow), P-10 (intermediate); outside: P-11 (shallow), P-12 (intermediate), HY-11d (deep).
10. East boundary monitoring points = inside: P-13 (shallow), P-14 (intermediate), HY-125 (deep); outside: P-15 (shallow), P-16 (intermediate).
11. Center monitoring points = inside: HYCP-3i, HY-12i, and HY-13i (intermediate); outside: HY-117, HY-122, and HY-125 (deep).
12. Center groundwater elevations represent averages of HYCP-3i, HY-12i, and HY-13i (intermediate) and HY-117, HY-122, and HY-125 (deep).

^a Groundwater elevation suspect based on change in groundwater elevation from previous month compared to other wells.

^b Well monument and top of PVC retrofitted in late 2018; well head yet to be resurveyed.

ATTACHMENT A

September 2020 Analytical Laboratory Reports and Data Validation Memorandum



PES Environmental, Inc.

Bill Haldeman
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: BSB

Work Order Number: 2009142

September 17, 2020

Attention Bill Haldeman:

Fremont Analytical, Inc. received 14 sample(s) on 9/9/2020 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CLIENT: PES Environmental, Inc.
Project: BSB
Work Order: 2009142

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2009142-001	HY-1s-090820	09/08/2020 2:45 PM	09/09/2020 5:26 PM
2009142-002	HY-1i-090820	09/08/2020 3:20 PM	09/09/2020 5:26 PM
2009142-003	HY-12i-090820	09/08/2020 4:25 PM	09/09/2020 5:26 PM
2009142-004	HY-7s-090820	09/08/2020 5:15 PM	09/09/2020 5:26 PM
2009142-005	MW-101-090920	09/09/2020 8:30 AM	09/09/2020 5:26 PM
2009142-006	HYCP-3i-090920	09/09/2020 9:05 AM	09/09/2020 5:26 PM
2009142-007	HYCP-7i-090920	09/09/2020 9:55 AM	09/09/2020 5:26 PM
2009142-008	HYCP-2-090920	09/09/2020 10:45 AM	09/09/2020 5:26 PM
2009142-009	HYCP-2i-090920	09/09/2020 11:15 AM	09/09/2020 5:26 PM
2009142-010	Gi-090920	09/09/2020 11:55 AM	09/09/2020 5:26 PM
2009142-011	Gs-090920	09/09/2020 12:25 PM	09/09/2020 5:26 PM
2009142-012	Hs-090920	09/09/2020 1:05 PM	09/09/2020 5:26 PM
2009142-013	Hi-090920	09/09/2020 1:30 PM	09/09/2020 5:26 PM
2009142-014	TB-090920	09/09/2020 4:30 PM	09/09/2020 5:26 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: PES Environmental, Inc.

Project: BSB

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: PES Environmental, Inc.

Collection Date: 9/8/2020 2:45:00 PM

Project: BSB

Lab ID: 2009142-001

Matrix: Groundwater

Client Sample ID: HY-1s-090820

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00	Q	µg/L	1	9/15/2020 10:26:32 AM
Chloromethane	ND	0.500	MDL	µg/L	1	9/15/2020 10:26:32 AM
Vinyl chloride	14.1	0.200		µg/L	1	9/15/2020 10:26:32 AM
Bromomethane	ND	0.500	Q	µg/L	1	9/15/2020 10:26:32 AM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
Chloroethane	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
Methylene chloride	ND	1.00		µg/L	1	9/15/2020 10:26:32 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
cis-1,2-Dichloroethene	2.40	0.500		µg/L	1	9/15/2020 10:26:32 AM
Chloroform	ND	1.00		µg/L	1	9/15/2020 10:26:32 AM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
1,1-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
Carbon tetrachloride	ND	0.500	MDL	µg/L	1	9/15/2020 10:26:32 AM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
Bromodichloromethane	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
Dibromomethane	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
Dibromochloromethane	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	9/15/2020 10:26:32 AM
Chlorobenzene	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
Bromoform	ND	0.500	MDL	µg/L	1	9/15/2020 10:26:32 AM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
Bromobenzene	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
2-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
4-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	9/15/2020 10:26:32 AM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	9/15/2020 10:26:32 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM



Client: PES Environmental, Inc.

Collection Date: 9/8/2020 2:45:00 PM

Project: BSB

Lab ID: 2009142-001

Matrix: Groundwater

Client Sample ID: HY-1s-090820

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/15/2020 10:26:32 AM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/15/2020 10:26:32 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
Surr: Dibromofluoromethane	105	84.8 - 113		%Rec	1	9/15/2020 10:26:32 AM
Surr: Toluene-d8	98.0	88.5 - 110		%Rec	1	9/15/2020 10:26:32 AM
Surr: 1-Bromo-4-fluorobenzene	101	89.9 - 108		%Rec	1	9/15/2020 10:26:32 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/8/2020 3:20:00 PM

Project: BSB

Lab ID: 2009142-002

Matrix: Groundwater

Client Sample ID: HY-1i-090820

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00	Q	µg/L	1	9/15/2020 11:27:01 AM
Chloromethane	ND	0.500	MDL	µg/L	1	9/15/2020 11:27:01 AM
Vinyl chloride	0.759	0.200		µg/L	1	9/15/2020 11:27:01 AM
Bromomethane	ND	0.500	Q	µg/L	1	9/15/2020 11:27:01 AM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
Chloroethane	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
Methylene chloride	ND	1.00		µg/L	1	9/15/2020 11:27:01 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
1,1-Dichloroethane	0.777	0.500		µg/L	1	9/15/2020 11:27:01 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
Chloroform	ND	1.00		µg/L	1	9/15/2020 11:27:01 AM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
1,1-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
Carbon tetrachloride	ND	0.500	MDL	µg/L	1	9/15/2020 11:27:01 AM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
Bromodichloromethane	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
Dibromomethane	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
Dibromochloromethane	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	9/15/2020 11:27:01 AM
Chlorobenzene	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
Bromoform	ND	0.500	MDL	µg/L	1	9/15/2020 11:27:01 AM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
Bromobenzene	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
2-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
4-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	9/15/2020 11:27:01 AM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	9/15/2020 11:27:01 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM



Client: PES Environmental, Inc.

Collection Date: 9/8/2020 3:20:00 PM

Project: BSB

Lab ID: 2009142-002

Matrix: Groundwater

Client Sample ID: HY-1i-090820

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/15/2020 11:27:01 AM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/15/2020 11:27:01 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
Surr: Dibromofluoromethane	101	84.8 - 113		%Rec	1	9/15/2020 11:27:01 AM
Surr: Toluene-d8	98.9	88.5 - 110		%Rec	1	9/15/2020 11:27:01 AM
Surr: 1-Bromo-4-fluorobenzene	101	89.9 - 108		%Rec	1	9/15/2020 11:27:01 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/8/2020 4:25:00 PM

Project: BSB

Lab ID: 2009142-003

Matrix: Groundwater

Client Sample ID: HY-12i-090820

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	50.0	DQ	µg/L	50	9/15/2020 9:32:43 PM
Chloromethane	ND	39.4	DMDL	µg/L	50	9/15/2020 9:32:43 PM
Vinyl chloride	41,400	1,000	D	µg/L	5000	9/15/2020 7:31:24 PM
Bromomethane	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
Trichlorofluoromethane (CFC-11)	ND	25.0	DQ	µg/L	50	9/15/2020 9:32:43 PM
Chloroethane	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,1-Dichloroethene	419	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
Methylene chloride	ND	50.0	D	µg/L	50	9/15/2020 9:32:43 PM
trans-1,2-Dichloroethene	3,190	250	D	µg/L	500	9/15/2020 8:31:54 PM
1,1-Dichloroethane	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
cis-1,2-Dichloroethene	101,000	2,500	D	µg/L	5000	9/15/2020 7:31:24 PM
Chloroform	ND	50.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,1,1-Trichloroethane (TCA)	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,1-Dichloropropene	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
Carbon tetrachloride	ND	7.01	DMDL	µg/L	50	9/15/2020 9:32:43 PM
1,2-Dichloroethane (EDC)	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
Trichloroethene (TCE)	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,2-Dichloropropane	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
Bromodichloromethane	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
Dibromomethane	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
cis-1,3-Dichloropropene	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
trans-1,3-Dichloropropylene	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,1,2-Trichloroethane	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,3-Dichloropropane	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
Tetrachloroethene (PCE)	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
Dibromochloromethane	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,2-Dibromoethane (EDB)	ND	10.0	D	µg/L	50	9/15/2020 9:32:43 PM
Chlorobenzene	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,1,1,2-Tetrachloroethane	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
Bromoform	ND	6.73	DMDL	µg/L	50	9/15/2020 9:32:43 PM
1,1,1,2,2-Tetrachloroethane	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
Bromobenzene	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
2-Chlorotoluene	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
4-Chlorotoluene	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,2,3-Trichloropropane	ND	100	D	µg/L	50	9/15/2020 9:32:43 PM
1,2,4-Trichlorobenzene	ND	50.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,3-Dichlorobenzene	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,4-Dichlorobenzene	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,2-Dichlorobenzene	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM



Client: PES Environmental, Inc.

Collection Date: 9/8/2020 4:25:00 PM

Project: BSB

Lab ID: 2009142-003

Matrix: Groundwater

Client Sample ID: HY-12i-090820

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	50.0	D	µg/L	50	9/15/2020 9:32:43 PM
Hexachloro-1,3-butadiene	ND	100	D	µg/L	50	9/15/2020 9:32:43 PM
1,2,3-Trichlorobenzene	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
Surr: Dibromofluoromethane	91.6	84.8 - 113	D	%Rec	50	9/15/2020 9:32:43 PM
Surr: Toluene-d8	95.7	88.5 - 110	D	%Rec	50	9/15/2020 9:32:43 PM
Surr: 1-Bromo-4-fluorobenzene	99.1	89.9 - 108	D	%Rec	50	9/15/2020 9:32:43 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/8/2020 5:15:00 PM

Project: BSB

Lab ID: 2009142-004

Matrix: Groundwater

Client Sample ID: HY-7s-090820

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00	Q	µg/L	1	9/15/2020 11:57:13 AM
Chloromethane	ND	0.500	MDL	µg/L	1	9/15/2020 11:57:13 AM
Vinyl chloride	ND	0.200		µg/L	1	9/15/2020 11:57:13 AM
Bromomethane	ND	0.500	Q	µg/L	1	9/15/2020 11:57:13 AM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
Chloroethane	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
Methylene chloride	ND	1.00		µg/L	1	9/15/2020 11:57:13 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
Chloroform	ND	1.00		µg/L	1	9/15/2020 11:57:13 AM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
1,1-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
Carbon tetrachloride	ND	0.500	MDL	µg/L	1	9/15/2020 11:57:13 AM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
Bromodichloromethane	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
Dibromomethane	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
Dibromochloromethane	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	9/15/2020 11:57:13 AM
Chlorobenzene	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
Bromoform	ND	0.500	MDL	µg/L	1	9/15/2020 11:57:13 AM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
Bromobenzene	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
2-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
4-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	9/15/2020 11:57:13 AM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	9/15/2020 11:57:13 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM



Client: PES Environmental, Inc.

Collection Date: 9/8/2020 5:15:00 PM

Project: BSB

Lab ID: 2009142-004

Matrix: Groundwater

Client Sample ID: HY-7s-090820

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/15/2020 11:57:13 AM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/15/2020 11:57:13 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
Surr: Dibromofluoromethane	104	84.8 - 113		%Rec	1	9/15/2020 11:57:13 AM
Surr: Toluene-d8	98.7	88.5 - 110		%Rec	1	9/15/2020 11:57:13 AM
Surr: 1-Bromo-4-fluorobenzene	99.9	89.9 - 108		%Rec	1	9/15/2020 11:57:13 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 8:30:00 AM

Project: BSB

Lab ID: 2009142-005

Matrix: Groundwater

Client Sample ID: MW-101-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00	Q	µg/L	1	9/15/2020 12:27:32 PM
Chloromethane	ND	0.500	MDL	µg/L	1	9/15/2020 12:27:32 PM
Vinyl chloride	ND	0.200		µg/L	1	9/15/2020 12:27:32 PM
Bromomethane	ND	0.500	Q	µg/L	1	9/15/2020 12:27:32 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
Chloroethane	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
Methylene chloride	ND	1.00		µg/L	1	9/15/2020 12:27:32 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
Chloroform	ND	1.00		µg/L	1	9/15/2020 12:27:32 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
Carbon tetrachloride	ND	0.500	MDL	µg/L	1	9/15/2020 12:27:32 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
Bromodichloromethane	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
Dibromomethane	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
Dibromochloromethane	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	9/15/2020 12:27:32 PM
Chlorobenzene	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
Bromoform	ND	0.500	MDL	µg/L	1	9/15/2020 12:27:32 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
Bromobenzene	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
2-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
4-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	9/15/2020 12:27:32 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	9/15/2020 12:27:32 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 8:30:00 AM

Project: BSB

Lab ID: 2009142-005

Matrix: Groundwater

Client Sample ID: MW-101-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/15/2020 12:27:32 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/15/2020 12:27:32 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
Surr: Dibromofluoromethane	101	84.8 - 113		%Rec	1	9/15/2020 12:27:32 PM
Surr: Toluene-d8	98.8	88.5 - 110		%Rec	1	9/15/2020 12:27:32 PM
Surr: 1-Bromo-4-fluorobenzene	101	89.9 - 108		%Rec	1	9/15/2020 12:27:32 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 9:05:00 AM

Project: BSB

Lab ID: 2009142-006

Matrix: Groundwater

Client Sample ID: HYCP-3i-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	20.0	DQ	µg/L	20	9/15/2020 9:02:26 PM
Chloromethane	ND	15.8	DMDL	µg/L	20	9/15/2020 9:02:26 PM
Vinyl chloride	9,900	200	D	µg/L	1000	9/15/2020 8:01:38 PM
Bromomethane	ND	10.0	DQ	µg/L	20	9/15/2020 9:02:26 PM
Trichlorofluoromethane (CFC-11)	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
Chloroethane	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,1-Dichloroethene	18.9	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
Methylene chloride	ND	20.0	D	µg/L	20	9/15/2020 9:02:26 PM
trans-1,2-Dichloroethene	275	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,1-Dichloroethane	3.50	10.0	JD	µg/L	20	9/15/2020 9:02:26 PM
cis-1,2-Dichloroethene	14,700	500	D	µg/L	1000	9/15/2020 8:01:38 PM
Chloroform	ND	20.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,1,1-Trichloroethane (TCA)	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,1-Dichloropropene	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
Carbon tetrachloride	ND	2.80	DMDL	µg/L	20	9/15/2020 9:02:26 PM
1,2-Dichloroethane (EDC)	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
Trichloroethene (TCE)	12.8	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,2-Dichloropropane	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
Bromodichloromethane	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
Dibromomethane	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
cis-1,3-Dichloropropene	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
trans-1,3-Dichloropropylene	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,1,2-Trichloroethane	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,3-Dichloropropane	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
Tetrachloroethene (PCE)	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
Dibromochloromethane	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,2-Dibromoethane (EDB)	ND	4.00	D	µg/L	20	9/15/2020 9:02:26 PM
Chlorobenzene	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,1,1,2-Tetrachloroethane	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
Bromoform	ND	2.69	DMDL	µg/L	20	9/15/2020 9:02:26 PM
1,1,1,2,2-Tetrachloroethane	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
Bromobenzene	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
2-Chlorotoluene	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
4-Chlorotoluene	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,2,3-Trichloropropane	ND	40.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,2,4-Trichlorobenzene	ND	20.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,3-Dichlorobenzene	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,4-Dichlorobenzene	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,2-Dichlorobenzene	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 9:05:00 AM

Project: BSB

Lab ID: 2009142-006

Matrix: Groundwater

Client Sample ID: HYCP-3i-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	20.0	D	µg/L	20	9/15/2020 9:02:26 PM
Hexachloro-1,3-butadiene	ND	40.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,2,3-Trichlorobenzene	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
Surr: Dibromofluoromethane	96.5	84.8 - 113	D	%Rec	20	9/15/2020 9:02:26 PM
Surr: Toluene-d8	96.3	88.5 - 110	D	%Rec	20	9/15/2020 9:02:26 PM
Surr: 1-Bromo-4-fluorobenzene	99.1	89.9 - 108	D	%Rec	20	9/15/2020 9:02:26 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 9:55:00 AM

Project: BSB

Lab ID: 2009142-007

Matrix: Groundwater

Client Sample ID: HYCP-7i-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00	Q	µg/L	1	9/15/2020 3:29:20 PM
Chloromethane	ND	0.500	MDL	µg/L	1	9/15/2020 3:29:20 PM
Vinyl chloride	ND	0.200		µg/L	1	9/15/2020 3:29:20 PM
Bromomethane	ND	0.500	Q	µg/L	1	9/15/2020 3:29:20 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
Chloroethane	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
Methylene chloride	ND	1.00		µg/L	1	9/15/2020 3:29:20 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
Chloroform	ND	1.00		µg/L	1	9/15/2020 3:29:20 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
Carbon tetrachloride	ND	0.500	MDL	µg/L	1	9/15/2020 3:29:20 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
Bromodichloromethane	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
Dibromomethane	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
Dibromochloromethane	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	9/15/2020 3:29:20 PM
Chlorobenzene	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
Bromoform	ND	0.500	MDL	µg/L	1	9/15/2020 3:29:20 PM
1,1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
Bromobenzene	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
2-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
4-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	9/15/2020 3:29:20 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	9/15/2020 3:29:20 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 9:55:00 AM

Project: BSB

Lab ID: 2009142-007

Matrix: Groundwater

Client Sample ID: HYCP-7i-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/15/2020 3:29:20 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/15/2020 3:29:20 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
Surr: Dibromofluoromethane	100	84.8 - 113		%Rec	1	9/15/2020 3:29:20 PM
Surr: Toluene-d8	99.3	88.5 - 110		%Rec	1	9/15/2020 3:29:20 PM
Surr: 1-Bromo-4-fluorobenzene	100	89.9 - 108		%Rec	1	9/15/2020 3:29:20 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 10:45:00 AM

Project: BSB

Lab ID: 2009142-008

Matrix: Groundwater

Client Sample ID: HYCP-2-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00	Q	µg/L	1	9/15/2020 3:59:35 PM
Chloromethane	ND	0.500	MDL	µg/L	1	9/15/2020 3:59:35 PM
Vinyl chloride	ND	0.200		µg/L	1	9/15/2020 3:59:35 PM
Bromomethane	ND	0.500	Q	µg/L	1	9/15/2020 3:59:35 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
Chloroethane	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
Methylene chloride	ND	1.00		µg/L	1	9/15/2020 3:59:35 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
cis-1,2-Dichloroethene	0.579	0.500		µg/L	1	9/15/2020 3:59:35 PM
Chloroform	ND	1.00		µg/L	1	9/15/2020 3:59:35 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
Carbon tetrachloride	ND	0.500	MDL	µg/L	1	9/15/2020 3:59:35 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
Bromodichloromethane	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
Dibromomethane	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
Dibromochloromethane	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	9/15/2020 3:59:35 PM
Chlorobenzene	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
Bromoform	ND	0.500	MDL	µg/L	1	9/15/2020 3:59:35 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
Bromobenzene	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
2-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
4-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	9/15/2020 3:59:35 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	9/15/2020 3:59:35 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 10:45:00 AM

Project: BSB

Lab ID: 2009142-008

Matrix: Groundwater

Client Sample ID: HYCP-2-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/15/2020 3:59:35 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/15/2020 3:59:35 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
Surr: Dibromofluoromethane	105	84.8 - 113		%Rec	1	9/15/2020 3:59:35 PM
Surr: Toluene-d8	99.3	88.5 - 110		%Rec	1	9/15/2020 3:59:35 PM
Surr: 1-Bromo-4-fluorobenzene	99.3	89.9 - 108		%Rec	1	9/15/2020 3:59:35 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 11:15:00 AM

Project: BSB

Lab ID: 2009142-009

Matrix: Groundwater

Client Sample ID: HYCP-2i-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00	Q	µg/L	1	9/15/2020 4:29:57 PM
Chloromethane	ND	0.500	MDL	µg/L	1	9/15/2020 4:29:57 PM
Vinyl chloride	ND	0.200		µg/L	1	9/15/2020 4:29:57 PM
Bromomethane	ND	0.500	Q	µg/L	1	9/15/2020 4:29:57 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
Chloroethane	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
Methylene chloride	ND	1.00		µg/L	1	9/15/2020 4:29:57 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
Chloroform	ND	1.00		µg/L	1	9/15/2020 4:29:57 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
Carbon tetrachloride	ND	0.500	MDL	µg/L	1	9/15/2020 4:29:57 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
Bromodichloromethane	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
Dibromomethane	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
Dibromochloromethane	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	9/15/2020 4:29:57 PM
Chlorobenzene	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
Bromoform	ND	0.500	MDL	µg/L	1	9/15/2020 4:29:57 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
Bromobenzene	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
2-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
4-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	9/15/2020 4:29:57 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	9/15/2020 4:29:57 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 11:15:00 AM

Project: BSB

Lab ID: 2009142-009

Matrix: Groundwater

Client Sample ID: HYCP-2i-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/15/2020 4:29:57 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/15/2020 4:29:57 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
Surr: Dibromofluoromethane	104	84.8 - 113		%Rec	1	9/15/2020 4:29:57 PM
Surr: Toluene-d8	99.6	88.5 - 110		%Rec	1	9/15/2020 4:29:57 PM
Surr: 1-Bromo-4-fluorobenzene	100	89.9 - 108		%Rec	1	9/15/2020 4:29:57 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 11:55:00 AM

Project: BSB

Lab ID: 2009142-010

Matrix: Groundwater

Client Sample ID: Gi-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00	Q	µg/L	1	9/15/2020 5:00:17 PM
Chloromethane	ND	0.500	MDL	µg/L	1	9/15/2020 5:00:17 PM
Vinyl chloride	ND	0.200		µg/L	1	9/15/2020 5:00:17 PM
Bromomethane	ND	0.500	Q	µg/L	1	9/15/2020 5:00:17 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
Chloroethane	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
Methylene chloride	ND	1.00		µg/L	1	9/15/2020 5:00:17 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
Chloroform	ND	1.00		µg/L	1	9/15/2020 5:00:17 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
Carbon tetrachloride	ND	0.500	MDL	µg/L	1	9/15/2020 5:00:17 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
Bromodichloromethane	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
Dibromomethane	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
Dibromochloromethane	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	9/15/2020 5:00:17 PM
Chlorobenzene	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
Bromoform	ND	0.500	MDL	µg/L	1	9/15/2020 5:00:17 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
Bromobenzene	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
2-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
4-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	9/15/2020 5:00:17 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	9/15/2020 5:00:17 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 11:55:00 AM

Project: BSB

Lab ID: 2009142-010

Matrix: Groundwater

Client Sample ID: Gi-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/15/2020 5:00:17 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/15/2020 5:00:17 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
Surr: Dibromofluoromethane	101	84.8 - 113		%Rec	1	9/15/2020 5:00:17 PM
Surr: Toluene-d8	99.6	88.5 - 110		%Rec	1	9/15/2020 5:00:17 PM
Surr: 1-Bromo-4-fluorobenzene	100	89.9 - 108		%Rec	1	9/15/2020 5:00:17 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 12:25:00 PM

Project: BSB

Lab ID: 2009142-011

Matrix: Groundwater

Client Sample ID: Gs-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00	Q	µg/L	1	9/15/2020 5:30:35 PM
Chloromethane	ND	0.500	MDL	µg/L	1	9/15/2020 5:30:35 PM
Vinyl chloride	ND	0.200		µg/L	1	9/15/2020 5:30:35 PM
Bromomethane	ND	0.500	Q	µg/L	1	9/15/2020 5:30:35 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
Chloroethane	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
Methylene chloride	ND	1.00		µg/L	1	9/15/2020 5:30:35 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
Chloroform	ND	1.00		µg/L	1	9/15/2020 5:30:35 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
Carbon tetrachloride	ND	0.500	MDL	µg/L	1	9/15/2020 5:30:35 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
Bromodichloromethane	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
Dibromomethane	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
Dibromochloromethane	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	9/15/2020 5:30:35 PM
Chlorobenzene	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
Bromoform	ND	0.500	MDL	µg/L	1	9/15/2020 5:30:35 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
Bromobenzene	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
2-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
4-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	9/15/2020 5:30:35 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	9/15/2020 5:30:35 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 12:25:00 PM

Project: BSB

Lab ID: 2009142-011

Matrix: Groundwater

Client Sample ID: Gs-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/15/2020 5:30:35 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/15/2020 5:30:35 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
Surr: Dibromofluoromethane	101	84.8 - 113		%Rec	1	9/15/2020 5:30:35 PM
Surr: Toluene-d8	99.5	88.5 - 110		%Rec	1	9/15/2020 5:30:35 PM
Surr: 1-Bromo-4-fluorobenzene	102	89.9 - 108		%Rec	1	9/15/2020 5:30:35 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 1:05:00 PM

Project: BSB

Lab ID: 2009142-012

Matrix: Groundwater

Client Sample ID: Hs-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00	Q	µg/L	1	9/15/2020 6:00:49 PM
Chloromethane	ND	0.500	MDL	µg/L	1	9/15/2020 6:00:49 PM
Vinyl chloride	ND	0.200		µg/L	1	9/15/2020 6:00:49 PM
Bromomethane	ND	0.500	Q	µg/L	1	9/15/2020 6:00:49 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
Chloroethane	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
Methylene chloride	ND	1.00		µg/L	1	9/15/2020 6:00:49 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
Chloroform	ND	1.00		µg/L	1	9/15/2020 6:00:49 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
Carbon tetrachloride	ND	0.500	MDL	µg/L	1	9/15/2020 6:00:49 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
Bromodichloromethane	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
Dibromomethane	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
Dibromochloromethane	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	9/15/2020 6:00:49 PM
Chlorobenzene	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
Bromoform	ND	0.500	MDL	µg/L	1	9/15/2020 6:00:49 PM
1,1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
Bromobenzene	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
2-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
4-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	9/15/2020 6:00:49 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	9/15/2020 6:00:49 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 1:05:00 PM

Project: BSB

Lab ID: 2009142-012

Matrix: Groundwater

Client Sample ID: Hs-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/15/2020 6:00:49 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/15/2020 6:00:49 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
Surr: Dibromofluoromethane	101	84.8 - 113		%Rec	1	9/15/2020 6:00:49 PM
Surr: Toluene-d8	99.3	88.5 - 110		%Rec	1	9/15/2020 6:00:49 PM
Surr: 1-Bromo-4-fluorobenzene	101	89.9 - 108		%Rec	1	9/15/2020 6:00:49 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 1:30:00 PM

Project: BSB

Lab ID: 2009142-013

Matrix: Groundwater

Client Sample ID: Hi-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00	Q	µg/L	1	9/15/2020 6:31:06 PM
Chloromethane	ND	0.500	MDL	µg/L	1	9/15/2020 6:31:06 PM
Vinyl chloride	ND	0.200		µg/L	1	9/15/2020 6:31:06 PM
Bromomethane	ND	0.500	Q	µg/L	1	9/15/2020 6:31:06 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
Chloroethane	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
Methylene chloride	ND	1.00		µg/L	1	9/15/2020 6:31:06 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
Chloroform	ND	1.00		µg/L	1	9/15/2020 6:31:06 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
Carbon tetrachloride	ND	0.500	MDL	µg/L	1	9/15/2020 6:31:06 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
Bromodichloromethane	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
Dibromomethane	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
Dibromochloromethane	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	9/15/2020 6:31:06 PM
Chlorobenzene	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
Bromoform	ND	0.500	MDL	µg/L	1	9/15/2020 6:31:06 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
Bromobenzene	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
2-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
4-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	9/15/2020 6:31:06 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	9/15/2020 6:31:06 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 1:30:00 PM

Project: BSB

Lab ID: 2009142-013

Matrix: Groundwater

Client Sample ID: Hi-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/15/2020 6:31:06 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/15/2020 6:31:06 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
Surr: Dibromofluoromethane	103	84.8 - 113		%Rec	1	9/15/2020 6:31:06 PM
Surr: Toluene-d8	99.7	88.5 - 110		%Rec	1	9/15/2020 6:31:06 PM
Surr: 1-Bromo-4-fluorobenzene	101	89.9 - 108		%Rec	1	9/15/2020 6:31:06 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 4:30:00 PM

Project: BSB

Lab ID: 2009142-014

Matrix: Groundwater

Client Sample ID: TB-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00	Q	µg/L	1	9/15/2020 8:24:36 AM
Chloromethane	ND	0.789	MDL	µg/L	1	9/15/2020 8:24:36 AM
Vinyl chloride	ND	0.200		µg/L	1	9/15/2020 8:24:36 AM
Bromomethane	ND	0.500	Q	µg/L	1	9/15/2020 8:24:36 AM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
Chloroethane	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
Methylene chloride	ND	1.00		µg/L	1	9/15/2020 8:24:36 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
Chloroform	ND	1.00		µg/L	1	9/15/2020 8:24:36 AM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
1,1-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
Carbon tetrachloride	ND	0.140	MDL	µg/L	1	9/15/2020 8:24:36 AM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
Bromodichloromethane	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
Dibromomethane	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
Dibromochloromethane	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	9/15/2020 8:24:36 AM
Chlorobenzene	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
Bromoform	ND	0.135	MDL	µg/L	1	9/15/2020 8:24:36 AM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
Bromobenzene	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
2-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
4-Chlorotoluene	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	9/15/2020 8:24:36 AM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	9/15/2020 8:24:36 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 4:30:00 PM

Project: BSB

Lab ID: 2009142-014

Matrix: Groundwater

Client Sample ID: TB-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/15/2020 8:24:36 AM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/15/2020 8:24:36 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/15/2020 8:24:36 AM
Surr: Dibromofluoromethane	97.6	84.8 - 113		%Rec	1	9/15/2020 8:24:36 AM
Surr: Toluene-d8	98.8	88.5 - 110		%Rec	1	9/15/2020 8:24:36 AM
Surr: 1-Bromo-4-fluorobenzene	99.6	89.9 - 108		%Rec	1	9/15/2020 8:24:36 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)

Work Order: 2009142
CLIENT: PES Environmental, Inc.
Project: BSB

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-29665	SampType: LCS	Units: µg/L				Prep Date: 9/14/2020	RunNo: 61847				
Client ID: LCSW	Batch ID: 29665					Analysis Date: 9/15/2020	SeqNo: 1240414				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	16.2	1.00	20.00	0	80.8	17.8	204				
Chloromethane	19.9	2.00	20.00	0	99.3	46.7	158				
Vinyl chloride	18.2	0.200	20.00	0	90.9	62.3	148				
Bromomethane	14.7	1.00	20.00	0	73.5	49.7	151				
Trichlorofluoromethane (CFC-11)	18.5	1.00	20.00	0	92.4	80.6	131				
Chloroethane	18.3	1.00	20.00	0	91.4	69.7	138				
1,1-Dichloroethene	19.0	1.00	20.00	0	95.2	77	134				
Acetone	58.5	5.00	50.00	0	117	62.9	140				
Methylene chloride	19.2	1.00	20.00	0	96.2	73.7	126				
trans-1,2-Dichloroethene	19.1	1.00	20.00	0	95.7	83	127				
1,1-Dichloroethane	19.3	1.00	20.00	0	96.6	70.3	133				
cis-1,2-Dichloroethene	19.3	1.00	20.00	0	96.4	83.7	122				
Chloroform	19.4	1.00	20.00	0	97.0	81.9	122				
1,1,1-Trichloroethane (TCA)	19.6	1.00	20.00	0	97.8	78.2	133				
1,1-Dichloropropene	19.3	1.00	20.00	0	96.7	84.1	127				
Carbon tetrachloride	19.3	1.00	20.00	0	96.3	81.8	129				
1,2-Dichloroethane (EDC)	20.1	1.00	20.00	0	101	73.3	123				
Trichloroethene (TCE)	20.4	0.500	20.00	0	102	75.5	132				
1,2-Dichloropropane	19.9	1.00	20.00	0	99.5	79.2	124				
Bromodichloromethane	19.6	1.00	20.00	0	97.9	78.4	122				
Dibromomethane	20.2	1.00	20.00	0	101	78.3	122				
cis-1,3-Dichloropropene	18.8	1.00	20.00	0	94.2	77.6	117				
trans-1,3-Dichloropropylene	20.3	1.00	20.00	0	101	72.5	122				
1,1,2-Trichloroethane	20.5	1.00	20.00	0	102	78.2	125				
1,3-Dichloropropane	20.2	1.00	20.00	0	101	76.7	124				
Tetrachloroethene (PCE)	19.3	1.00	20.00	0	96.3	90.5	121				
Dibromochloromethane	19.9	1.00	20.00	0	99.7	77.1	122				
1,2-Dibromoethane (EDB)	20.5	0.250	20.00	0	103	77.9	122				
Chlorobenzene	19.4	1.00	20.00	0	97.0	84.3	121				
1,1,1,2-Tetrachloroethane	19.5	1.00	20.00	0	97.6	80.3	123				

Work Order: 2009142
 CLIENT: PES Environmental, Inc.
 Project: BSB

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-29665		SampType: LCS		Units: µg/L		Prep Date: 9/14/2020		RunNo: 61847			
Client ID: LCSW		Batch ID: 29665				Analysis Date: 9/15/2020		SeqNo: 1240414			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	20.0	1.00	20.00	0	100	69.3	129				
1,1,2,2-Tetrachloroethane	19.6	1.00	20.00	0	98.0	74.4	133				
Bromobenzene	19.4	1.00	20.00	0	97.2	85.1	120				
2-Chlorotoluene	19.1	1.00	20.00	0	95.4	84.2	123				
4-Chlorotoluene	19.0	1.00	20.00	0	94.9	82.3	123				
1,2,3-Trichloropropane	20.3	1.00	20.00	0	102	73.6	118				
1,2,4-Trichlorobenzene	18.9	2.00	20.00	0	94.6	73.2	129				
1,3-Dichlorobenzene	19.8	1.00	20.00	0	98.8	87.3	121				
1,4-Dichlorobenzene	19.7	1.00	20.00	0	98.5	87.4	119				
1,2-Dichlorobenzene	20.2	1.00	20.00	0	101	87.8	119				
1,2-Dibromo-3-chloropropane	21.8	1.00	20.00	0	109	61.6	135				
Hexachloro-1,3-butadiene	19.4	0.500	20.00	0	96.9	79.8	129				
1,2,3-Trichlorobenzene	19.3	4.00	20.00	0	96.6	72.3	131				
Surr: Dibromofluoromethane	24.9		25.00		99.5	84.8	113				
Surr: Toluene-d8	25.2		25.00		101	88.5	110				
Surr: 1-Bromo-4-fluorobenzene	25.3		25.00		101	89.9	108				

Sample ID: LCSD-29665		SampType: LCSD		Units: µg/L		Prep Date: 9/14/2020		RunNo: 61847			
Client ID: LCSW02		Batch ID: 29665				Analysis Date: 9/15/2020		SeqNo: 1240415			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	17.0	1.00	20.00	0	84.9	17.8	204	16.15	4.97	20	
Chloromethane	21.4	2.00	20.00	0	107	46.7	158	19.85	7.68	20	
Vinyl chloride	18.9	0.200	20.00	0	94.5	62.3	148	18.17	3.95	20	
Bromomethane	15.9	1.00	20.00	0	79.3	49.7	151	14.70	7.68	20	
Trichlorofluoromethane (CFC-11)	19.8	1.00	20.00	0	99.2	80.6	131	18.48	7.11	20	
Chloroethane	18.9	1.00	20.00	0	94.3	69.7	138	18.27	3.13	20	
1,1-Dichloroethene	20.1	1.00	20.00	0	101	77	134	19.05	5.46	20	
Acetone	59.8	5.00	50.00	0	120	62.9	140	58.55	2.13	20	
Methylene chloride	19.8	1.00	20.00	0	99.2	73.7	126	19.25	3.05	20	

Work Order: 2009142
 CLIENT: PES Environmental, Inc.
 Project: BSB

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCSD-29665	SampType: LCSD	Units: µg/L				Prep Date: 9/14/2020	RunNo: 61847				
Client ID: LCSW02	Batch ID: 29665					Analysis Date: 9/15/2020	SeqNo: 1240415				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	20.0	1.00	20.00	0	100	83	127	19.13	4.52	20	
1,1-Dichloroethane	20.1	1.00	20.00	0	101	70.3	133	19.32	4.21	20	
cis-1,2-Dichloroethene	20.0	1.00	20.00	0	99.8	83.7	122	19.28	3.45	20	
Chloroform	20.3	1.00	20.00	0	101	81.9	122	19.39	4.46	20	
1,1,1-Trichloroethane (TCA)	20.5	1.00	20.00	0	103	78.2	133	19.57	4.83	20	
1,1-Dichloropropene	20.5	1.00	20.00	0	103	84.1	127	19.33	5.89	20	
Carbon tetrachloride	20.3	1.00	20.00	0	101	81.8	129	19.26	5.19	20	
1,2-Dichloroethane (EDC)	20.4	1.00	20.00	0	102	73.3	123	20.13	1.56	20	
Trichloroethene (TCE)	21.3	0.500	20.00	0	107	75.5	132	20.43	4.20	20	
1,2-Dichloropropane	20.4	1.00	20.00	0	102	79.2	124	19.89	2.29	20	
Bromodichloromethane	20.2	1.00	20.00	0	101	78.4	122	19.59	3.31	20	
Dibromomethane	20.6	1.00	20.00	0	103	78.3	122	20.23	1.74	20	
cis-1,3-Dichloropropene	19.4	1.00	20.00	0	96.9	77.6	117	18.84	2.79	20	
trans-1,3-Dichloropropylene	20.7	1.00	20.00	0	103	72.5	122	20.27	2.05	20	
1,1,2-Trichloroethane	20.8	1.00	20.00	0	104	78.2	125	20.48	1.48	20	
1,3-Dichloropropane	20.6	1.00	20.00	0	103	76.7	124	20.15	2.29	20	
Tetrachloroethene (PCE)	20.0	1.00	20.00	0	100	90.5	121	19.25	4.01	20	
Dibromochloromethane	20.4	1.00	20.00	0	102	77.1	122	19.94	2.33	20	
1,2-Dibromoethane (EDB)	20.8	0.250	20.00	0	104	77.9	122	20.50	1.25	20	
Chlorobenzene	20.2	1.00	20.00	0	101	84.3	121	19.40	4.04	20	
1,1,1,2-Tetrachloroethane	20.4	1.00	20.00	0	102	80.3	123	19.53	4.37	20	
Bromoform	20.5	1.00	20.00	0	103	69.3	129	20.02	2.41	20	
1,1,2,2-Tetrachloroethane	19.9	1.00	20.00	0	99.3	74.4	133	19.61	1.23	20	
Bromobenzene	20.2	1.00	20.00	0	101	85.1	120	19.44	4.08	20	
2-Chlorotoluene	20.2	1.00	20.00	0	101	84.2	123	19.07	5.64	20	
4-Chlorotoluene	19.8	1.00	20.00	0	99.2	82.3	123	18.98	4.44	20	
1,2,3-Trichloropropane	20.6	1.00	20.00	0	103	73.6	118	20.34	1.45	20	
1,2,4-Trichlorobenzene	20.8	2.00	20.00	0	104	73.2	129	18.92	9.42	20	
1,3-Dichlorobenzene	20.8	1.00	20.00	0	104	87.3	121	19.77	4.93	20	
1,4-Dichlorobenzene	20.8	1.00	20.00	0	104	87.4	119	19.70	5.37	20	

Work Order: 2009142
 CLIENT: PES Environmental, Inc.
 Project: BSB

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCSD-29665	SampType: LCSD	Units: µg/L				Prep Date: 9/14/2020	RunNo: 61847				
Client ID: LCSW02	Batch ID: 29665					Analysis Date: 9/15/2020	SeqNo: 1240415				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	21.1	1.00	20.00	0	105	87.8	119	20.22	4.09	20	
1,2-Dibromo-3-chloropropane	22.3	1.00	20.00	0	111	61.6	135	21.83	1.98	20	
Hexachloro-1,3-butadiene	20.7	0.500	20.00	0	103	79.8	129	19.39	6.38	20	
1,2,3-Trichlorobenzene	21.3	4.00	20.00	0	106	72.3	131	19.33	9.70	20	
Surr: Dibromofluoromethane	24.8		25.00		99.2	84.8	113		0		
Surr: Toluene-d8	25.0		25.00		100	88.5	110		0		
Surr: 1-Bromo-4-fluorobenzene	25.3		25.00		101	89.9	108		0		

Sample ID: MB-29665	SampType: MBLK	Units: µg/L				Prep Date: 9/14/2020	RunNo: 61847				
Client ID: MBLKW	Batch ID: 29665					Analysis Date: 9/15/2020	SeqNo: 1240416				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	1.00									Q
Chloromethane	ND	0.789									MDL
Vinyl chloride	ND	0.200									
Bromomethane	ND	1.00									Q
Trichlorofluoromethane (CFC-11)	ND	1.00									
Chloroethane	ND	1.00									
1,1-Dichloroethene	ND	1.00									
Acetone	ND	5.00									
Methylene chloride	ND	1.00									
trans-1,2-Dichloroethene	ND	1.00									
1,1-Dichloroethane	ND	1.00									
cis-1,2-Dichloroethene	ND	1.00									
Chloroform	ND	1.00									
1,1,1-Trichloroethane (TCA)	ND	1.00									
1,1-Dichloropropene	ND	1.00									
Carbon tetrachloride	ND	0.140									MDL
1,2-Dichloroethane (EDC)	ND	1.00									
Trichloroethene (TCE)	ND	0.500									

Work Order: 2009142
 CLIENT: PES Environmental, Inc.
 Project: BSB

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-29665	SampType: MBLK	Units: µg/L	Prep Date: 9/14/2020	RunNo: 61847							
Client ID: MBLKW	Batch ID: 29665		Analysis Date: 9/15/2020	SeqNo: 1240416							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2-Dichloropropane	ND	1.00									
Bromodichloromethane	ND	1.00									
Dibromomethane	ND	1.00									
cis-1,3-Dichloropropene	ND	1.00									
trans-1,3-Dichloropropylene	ND	1.00									
1,1,2-Trichloroethane	ND	1.00									
1,3-Dichloropropane	ND	1.00									
Tetrachloroethene (PCE)	ND	1.00									
Dibromochloromethane	ND	1.00									
1,2-Dibromoethane (EDB)	ND	0.250									
Chlorobenzene	ND	1.00									
1,1,1,2-Tetrachloroethane	ND	1.00									
Bromoform	ND	0.135									MDL
1,1,1,2,2-Tetrachloroethane	ND	1.00									
Bromobenzene	ND	1.00									
2-Chlorotoluene	ND	1.00									
4-Chlorotoluene	ND	1.00									
1,2,3-Trichloropropane	ND	1.00									
1,2,4-Trichlorobenzene	ND	2.00									
1,3-Dichlorobenzene	ND	1.00									
1,4-Dichlorobenzene	ND	1.00									
1,2-Dichlorobenzene	ND	1.00									
1,2-Dibromo-3-chloropropane	ND	1.00									
Hexachloro-1,3-butadiene	ND	0.500									
1,2,3-Trichlorobenzene	ND	4.00									
Surr: Dibromofluoromethane	24.3		25.00		97.2	84.8	113				
Surr: Toluene-d8	24.6		25.00		98.6	88.5	110				
Surr: 1-Bromo-4-fluorobenzene	24.7		25.00		98.9	89.9	108				

Work Order: 2009142
 CLIENT: PES Environmental, Inc.
 Project: BSB

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-29665	SampType: MBLK	Units: µg/L	Prep Date: 9/14/2020	RunNo: 61847							
Client ID: MBLKW	Batch ID: 29665		Analysis Date: 9/15/2020	SeqNo: 1240416							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria
 MDL - Analyte reported to Method Detection Limit (MDL)

Sample ID: 2009180-001ADUP	SampType: DUP	Units: µg/L	Prep Date: 9/14/2020	RunNo: 61847							
Client ID: BATCH	Batch ID: 29665		Analysis Date: 9/15/2020	SeqNo: 1240408							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	1.00						0		30	Q
Chloromethane	ND	2.00						0		30	
Vinyl chloride	ND	0.200						0		30	
Bromomethane	ND	1.00						0		30	Q
Trichlorofluoromethane (CFC-11)	ND	1.00						0		30	
Chloroethane	ND	1.00						0		30	
1,1-Dichloroethene	ND	1.00						0		30	
Acetone	ND	5.00						0		30	
Methylene chloride	ND	1.00						0		30	
trans-1,2-Dichloroethene	ND	1.00						0		30	
1,1-Dichloroethane	ND	1.00						0		30	
cis-1,2-Dichloroethene	ND	1.00						0		30	
Chloroform	ND	1.00						0		30	
1,1,1-Trichloroethane (TCA)	ND	1.00						0		30	
1,1-Dichloropropene	ND	1.00						0		30	
Carbon tetrachloride	ND	1.00						0		30	
1,2-Dichloroethane (EDC)	ND	1.00						0		30	
Trichloroethene (TCE)	ND	0.500						0		30	
1,2-Dichloropropane	ND	1.00						0		30	
Bromodichloromethane	ND	1.00						0		30	
Dibromomethane	ND	1.00						0		30	
cis-1,3-Dichloropropene	ND	1.00						0		30	
trans-1,3-Dichloropropylene	ND	1.00						0		30	

Work Order: 2009142
 CLIENT: PES Environmental, Inc.
 Project: BSB

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2009180-001ADUP	SampType: DUP	Units: µg/L			Prep Date: 9/14/2020	RunNo: 61847					
Client ID: BATCH	Batch ID: 29665				Analysis Date: 9/15/2020	SeqNo: 1240408					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane	ND	1.00						0		30	
1,3-Dichloropropane	ND	1.00						0		30	
Tetrachloroethene (PCE)	ND	1.00						0		30	
Dibromochloromethane	ND	1.00						0		30	
1,2-Dibromoethane (EDB)	ND	0.250						0		30	
Chlorobenzene	ND	1.00						0		30	
1,1,1,2-Tetrachloroethane	ND	1.00						0		30	
Bromoform	ND	1.00						0		30	
1,1,1,2,2-Tetrachloroethane	ND	1.00						0		30	
Bromobenzene	ND	1.00						0		30	
2-Chlorotoluene	ND	1.00						0		30	
4-Chlorotoluene	ND	1.00						0		30	
1,2,3-Trichloropropane	ND	1.00						0		30	
1,2,4-Trichlorobenzene	ND	2.00						0		30	
1,3-Dichlorobenzene	ND	1.00						0		30	
1,4-Dichlorobenzene	ND	1.00						0		30	
1,2-Dichlorobenzene	ND	1.00						0		30	
1,2-Dibromo-3-chloropropane	ND	1.00						0		30	
Hexachloro-1,3-butadiene	ND	0.500						0		30	
1,2,3-Trichlorobenzene	ND	4.00						0		30	
Surr: Dibromofluoromethane	26.6		25.00		107	84.8	113		0		
Surr: Toluene-d8	24.3		25.00		97.0	88.5	110		0		
Surr: 1-Bromo-4-fluorobenzene	24.9		25.00		99.7	89.9	108		0		

Sample ID: 2009142-001ADUP	SampType: DUP	Units: µg/L			Prep Date: 9/14/2020	RunNo: 61847					
Client ID: HY-1s-090820	Batch ID: 29665				Analysis Date: 9/15/2020	SeqNo: 1240402					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	1.00						0		30	Q
Chloromethane	ND	2.00						0		30	



Work Order: 2009142
 CLIENT: PES Environmental, Inc.
 Project: BSB

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2009142-001ADUP	SampType: DUP	Units: µg/L	Prep Date: 9/14/2020	RunNo: 61847							
Client ID: HY-1s-090820	Batch ID: 29665		Analysis Date: 9/15/2020	SeqNo: 1240402							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	14.8	0.200						14.12	4.51	30	
Bromomethane	ND	1.00						0		30	Q
Trichlorofluoromethane (CFC-11)	ND	1.00						0		30	
Chloroethane	ND	1.00						0		30	
1,1-Dichloroethene	ND	1.00						0		30	
Acetone	ND	5.00						0		30	
Methylene chloride	ND	1.00						0		30	
trans-1,2-Dichloroethene	ND	1.00						0		30	
1,1-Dichloroethane	ND	1.00						0		30	
cis-1,2-Dichloroethene	2.40	1.00						2.402	0.210	30	
Chloroform	ND	1.00						0		30	
1,1,1-Trichloroethane (TCA)	ND	1.00						0		30	
1,1-Dichloropropene	ND	1.00						0		30	
Carbon tetrachloride	ND	1.00						0		30	
1,2-Dichloroethane (EDC)	ND	1.00						0		30	
Trichloroethene (TCE)	ND	0.500						0		30	
1,2-Dichloropropane	ND	1.00						0		30	
Bromodichloromethane	ND	1.00						0		30	
Dibromomethane	ND	1.00						0		30	
cis-1,3-Dichloropropene	ND	1.00						0		30	
trans-1,3-Dichloropropylene	ND	1.00						0		30	
1,1,2-Trichloroethane	ND	1.00						0		30	
1,3-Dichloropropane	ND	1.00						0		30	
Tetrachloroethene (PCE)	ND	1.00						0		30	
Dibromochloromethane	ND	1.00						0		30	
1,2-Dibromoethane (EDB)	ND	0.250						0		30	
Chlorobenzene	ND	1.00						0		30	
1,1,1,2-Tetrachloroethane	ND	1.00						0		30	
Bromoform	ND	1.00						0		30	
1,1,2,2-Tetrachloroethane	ND	1.00						0		30	

Work Order: 2009142
 CLIENT: PES Environmental, Inc.
 Project: BSB

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2009142-001ADUP	SampType: DUP	Units: µg/L	Prep Date: 9/14/2020	RunNo: 61847							
Client ID: HY-1s-090820	Batch ID: 29665		Analysis Date: 9/15/2020	SeqNo: 1240402							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromobenzene	ND	1.00						0		30	
2-Chlorotoluene	ND	1.00						0		30	
4-Chlorotoluene	ND	1.00						0		30	
1,2,3-Trichloropropane	ND	1.00						0		30	
1,2,4-Trichlorobenzene	ND	2.00						0		30	
1,3-Dichlorobenzene	ND	1.00						0		30	
1,4-Dichlorobenzene	ND	1.00						0		30	
1,2-Dichlorobenzene	ND	1.00						0		30	
1,2-Dibromo-3-chloropropane	ND	1.00						0		30	
Hexachloro-1,3-butadiene	ND	0.500						0		30	
1,2,3-Trichlorobenzene	ND	4.00						0		30	
Surr: Dibromofluoromethane	26.0		25.00		104	84.8	113		0		
Surr: Toluene-d8	24.9		25.00		99.4	88.5	110		0		
Surr: 1-Bromo-4-fluorobenzene	25.2		25.00		101	89.9	108		0		

Client Name: PES	Work Order Number: 2009142
Logged by: Clare Griggs	Date Received: 9/9/2020 5:26:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	2.0

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 9/19/20 Page: 1 of 2

Project Name: BSB

Project No: 827.001.45.003

Collected by: S. Kounovsky

Location: Kent WA

Report To (PM): B. Haldeman

PM Email: BHALDEMAN@PESENV.COM

Laboratory Project No (Internal): 2009142

Special Remarks:

Sample Disposal: Return to client Disposal by lab (after 30 days)

Client: PES Environmental
Address: 1215 4th Ave #1350
City, State, Zip: SEATTLE WA 98161
Telephone: (206)529-3980
Fax: (206)529-3985

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GY/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**	EDR (801)	Comments
1 HY-15-090820	9/8/20	1445	GW														
2 HY-11-090820		1520															
3 HY-12i-090820		1625															
4 HY-75-090820		1715															
5 MW-101-090920	9/9/20	830															
6 HY-CP-3i-090920		905															
7 HY-CP-7i-090920		955															
8 HY-CP-2-090920		1045															
9 HY-CP-2i-090920		1115															
10 GI-090920		1155															

Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 Metals (Circle): MTCA-5 RCA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn
 Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished Date/Time: 9/19/20 1720 Received Date/Time: 9/19 @ 17:26
 Relinquished Date/Time: Received Date/Time:
 Turn-around Time: Standard 3 Day 2 Day Next Day
 Same Day (specify)



Fremont

Analytical

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 9/19/20 Page: 2 of 2

Project Name: B3B

Project No.: 827.001.45.003

Collected by: SEE PG 1

Location: SEE PG 1

Report To (PM): SEE PG 1

PM Email: SEE PG 1

Laboratory Project No (Internal): 2009142

Special Remarks:

Sample Disposal: Return to client Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)			Gasoline Range Organics (GX)			Hydrocarbon Identification (HCID)			SVOCs (EPA 8270 / 625)			PAHs (EPA 8082 / 608)			Metals** (EPA 6020 / 200.8)			Total (T) Dissolved (D)			Anions (IC)**			EDB (801)			Comments
				GX/BTEX	BTEX	BTEX	BTX	BTX	BTX	BTX	BTX	BTX	BTX	BTX	BTX	BTX	BTX	BTX	BTX	BTX	BTX	BTX	BTX	BTX	BTX	BTX					
1 GS-090920	9/19/20	1325	GW																												
2 HS-090920		1305																													
3 HI-090920		1330																													
4 TB-090920		1630	-																												
5																															
6																															
7																															
8																															
9																															
10																															

Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

Metals (Circle): MICA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti U V Zn

Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished: Michelle Cole Date/Time: 9/19/20 17:20

Received: [Signature] Date/Time: 9/19 @ 17:20

Received: [Signature] Date/Time: 9/19 @ 17:20

Turn-around Time: Standard 3 Day 2 Day Next Day Same Day (specify) _____



PES Environmental, Inc.

Bill Haldeman
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: BSB

Work Order Number: 2009186

September 22, 2020

Attention Bill Haldeman:

Fremont Analytical, Inc. received 4 sample(s) on 9/11/2020 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



Date: 09/22/2020

CLIENT: PES Environmental, Inc.
Project: BSB
Work Order: 2009186

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2009186-001	HY-13i-091020	09/10/2020 9:10 AM	09/11/2020 4:05 PM
2009186-002	HY-11s-091020	09/10/2020 10:15 AM	09/11/2020 4:05 PM
2009186-003	HY-11i-091020	09/10/2020 10:50 AM	09/11/2020 4:05 PM
2009186-004	Trip Blank	09/01/2020 4:36 PM	09/11/2020 4:05 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: PES Environmental, Inc.
Project: BSB

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: PES Environmental, Inc.

Collection Date: 9/10/2020 9:10:00 AM

Project: BSB

Lab ID: 2009186-001

Matrix: Water

Client Sample ID: HY-13i-091020

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29684

Analyst: KT

Dichlorodifluoromethane (CFC-12)	ND	10.0	D	µg/L	10	9/17/2020 12:54:11 AM
Chloromethane	ND	7.89	DMDL	µg/L	10	9/17/2020 12:54:11 AM
Vinyl chloride	1,100	100	D	µg/L	500	9/16/2020 10:53:10 PM
Bromomethane	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
Trichlorofluoromethane (CFC-11)	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
Chloroethane	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
1,1-Dichloroethene	53.5	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
Methylene chloride	ND	10.0	D	µg/L	10	9/17/2020 12:54:11 AM
trans-1,2-Dichloroethene	143	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
1,1-Dichloroethane	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
cis-1,2-Dichloroethene	8,210	250	D	µg/L	500	9/16/2020 10:53:10 PM
Chloroform	ND	10.0	D	µg/L	10	9/17/2020 12:54:11 AM
1,1,1-Trichloroethane (TCA)	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
1,1-Dichloropropene	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
Carbon tetrachloride	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
1,2-Dichloroethane (EDC)	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
Trichloroethene (TCE)	290	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
1,2-Dichloropropane	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
Bromodichloromethane	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
Dibromomethane	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
cis-1,3-Dichloropropene	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
trans-1,3-Dichloropropylene	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
1,1,2-Trichloroethane	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
1,3-Dichloropropane	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
Tetrachloroethene (PCE)	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
Dibromochloromethane	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
1,2-Dibromoethane (EDB)	ND	2.00	D	µg/L	10	9/17/2020 12:54:11 AM
Chlorobenzene	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
1,1,1,2-Tetrachloroethane	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
Bromoform	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
1,1,1,2,2-Tetrachloroethane	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
Bromobenzene	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
2-Chlorotoluene	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
4-Chlorotoluene	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
1,2,3-Trichloropropane	ND	20.0	D	µg/L	10	9/17/2020 12:54:11 AM
1,2,4-Trichlorobenzene	ND	10.0	D	µg/L	10	9/17/2020 12:54:11 AM
1,3-Dichlorobenzene	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
1,4-Dichlorobenzene	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
1,2-Dichlorobenzene	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM



Client: PES Environmental, Inc.

Collection Date: 9/10/2020 9:10:00 AM

Project: BSB

Lab ID: 2009186-001

Matrix: Water

Client Sample ID: HY-13i-091020

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29684

Analyst: KT

1,2-Dibromo-3-chloropropane	ND	10.0	D	µg/L	10	9/17/2020 12:54:11 AM
Hexachloro-1,3-butadiene	ND	20.0	D	µg/L	10	9/17/2020 12:54:11 AM
1,2,3-Trichlorobenzene	ND	5.00	D	µg/L	10	9/17/2020 12:54:11 AM
Surr: Dibromofluoromethane	98.8	84.8 - 113	D	%Rec	10	9/17/2020 12:54:11 AM
Surr: Toluene-d8	96.6	88.5 - 110	D	%Rec	10	9/17/2020 12:54:11 AM
Surr: 1-Bromo-4-fluorobenzene	101	89.9 - 108	D	%Rec	10	9/17/2020 12:54:11 AM

NOTES:

Diluted due to matrix.

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/10/2020 10:15:00 AM

Project: BSB

Lab ID: 2009186-002

Matrix: Water

Client Sample ID: HY-11s-091020

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29684

Analyst: KT

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	9/16/2020 9:22:49 PM
Chloromethane	ND	0.789	MDL	µg/L	1	9/16/2020 9:22:49 PM
Vinyl chloride	ND	0.200		µg/L	1	9/16/2020 9:22:49 PM
Bromomethane	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
Chloroethane	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
Methylene chloride	ND	1.00		µg/L	1	9/16/2020 9:22:49 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
cis-1,2-Dichloroethene	1.96	0.500		µg/L	1	9/16/2020 9:22:49 PM
Chloroform	ND	1.00		µg/L	1	9/16/2020 9:22:49 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
Carbon tetrachloride	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
Bromodichloromethane	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
Dibromomethane	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
Dibromochloromethane	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	9/16/2020 9:22:49 PM
Chlorobenzene	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
Bromoform	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
1,1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
Bromobenzene	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
2-Chlorotoluene	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
4-Chlorotoluene	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	9/16/2020 9:22:49 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	9/16/2020 9:22:49 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM



Client: PES Environmental, Inc.

Collection Date: 9/10/2020 10:15:00 AM

Project: BSB

Lab ID: 2009186-002

Matrix: Water

Client Sample ID: HY-11s-091020

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29684

Analyst: KT

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/16/2020 9:22:49 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/16/2020 9:22:49 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/16/2020 9:22:49 PM
Surr: Dibromofluoromethane	98.6	84.8 - 113		%Rec	1	9/16/2020 9:22:49 PM
Surr: Toluene-d8	99.1	88.5 - 110		%Rec	1	9/16/2020 9:22:49 PM
Surr: 1-Bromo-4-fluorobenzene	101	89.9 - 108		%Rec	1	9/16/2020 9:22:49 PM

NOTES:

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/10/2020 10:50:00 AM

Project: BSB

Lab ID: 2009186-003

Matrix: Water

Client Sample ID: HY-11i-091020

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29684

Analyst: KT

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	9/16/2020 9:52:52 PM
Chloromethane	ND	0.789	MDL	µg/L	1	9/16/2020 9:52:52 PM
Vinyl chloride	ND	0.200		µg/L	1	9/16/2020 9:52:52 PM
Bromomethane	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
Chloroethane	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
Methylene chloride	ND	1.00		µg/L	1	9/16/2020 9:52:52 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
Chloroform	ND	1.00		µg/L	1	9/16/2020 9:52:52 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
Carbon tetrachloride	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
Bromodichloromethane	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
Dibromomethane	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
Dibromochloromethane	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	9/16/2020 9:52:52 PM
Chlorobenzene	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
Bromoform	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
1,1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
Bromobenzene	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
2-Chlorotoluene	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
4-Chlorotoluene	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	9/16/2020 9:52:52 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	9/16/2020 9:52:52 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM



Client: PES Environmental, Inc.

Collection Date: 9/10/2020 10:50:00 AM

Project: BSB

Lab ID: 2009186-003

Matrix: Water

Client Sample ID: HY-11i-091020

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29684

Analyst: KT

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/16/2020 9:52:52 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/16/2020 9:52:52 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/16/2020 9:52:52 PM
Surr: Dibromofluoromethane	103	84.8 - 113		%Rec	1	9/16/2020 9:52:52 PM
Surr: Toluene-d8	100	88.5 - 110		%Rec	1	9/16/2020 9:52:52 PM
Surr: 1-Bromo-4-fluorobenzene	100	89.9 - 108		%Rec	1	9/16/2020 9:52:52 PM

NOTES:

MDL - Analyte reported to Method Detection Limit (MDL)

Work Order: 2009186
 CLIENT: PES Environmental, Inc.
 Project: BSB

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-29684	SampType: LCS	Units: µg/L				Prep Date: 9/16/2020	RunNo: 61931				
Client ID: LCSW	Batch ID: 29684					Analysis Date: 9/16/2020	SeqNo: 1242018				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	21.2	1.00	20.00	0	106	17.8	204				
Chloromethane	18.0	0.500	20.00	0	90.1	46.7	158				
Vinyl chloride	19.6	0.200	20.00	0	97.9	62.3	148				
Bromomethane	18.7	0.500	20.00	0	93.4	49.7	151				
Trichlorofluoromethane (CFC-11)	21.6	0.500	20.00	0	108	80.6	131				
Chloroethane	20.7	0.500	20.00	0	104	69.7	138				
1,1-Dichloroethene	20.1	0.500	20.00	0	100	77	134				
Methylene chloride	19.8	1.00	20.00	0	98.9	73.7	126				
trans-1,2-Dichloroethene	20.2	0.500	20.00	0	101	83	127				
1,1-Dichloroethane	20.2	0.500	20.00	0	101	70.3	133				
cis-1,2-Dichloroethene	20.0	0.500	20.00	0	100	83.7	122				
Chloroform	20.2	1.00	20.00	0	101	81.9	122				
1,1,1-Trichloroethane (TCA)	20.5	0.500	20.00	0	103	78.2	133				
1,1-Dichloropropene	20.7	0.500	20.00	0	104	84.1	127				
Carbon tetrachloride	20.7	0.500	20.00	0	104	81.8	129				
1,2-Dichloroethane (EDC)	19.9	0.500	20.00	0	99.6	73.3	123				
Trichloroethene (TCE)	19.7	0.500	20.00	0	98.5	75.5	132				
1,2-Dichloropropane	20.3	0.500	20.00	0	101	79.2	124				
Bromodichloromethane	20.2	0.500	20.00	0	101	78.4	122				
Dibromomethane	19.8	0.500	20.00	0	98.9	78.3	122				
cis-1,3-Dichloropropene	20.5	0.500	20.00	0	103	77.6	117				
trans-1,3-Dichloropropylene	21.3	0.500	20.00	0	106	72.5	122				
1,1,2-Trichloroethane	19.5	0.500	20.00	0	97.5	78.2	125				
1,3-Dichloropropane	19.7	0.500	20.00	0	98.4	76.7	124				
Tetrachloroethene (PCE)	20.7	0.500	20.00	0	104	90.5	121				
Dibromochloromethane	19.8	0.500	20.00	0	98.9	77.1	122				
1,2-Dibromoethane (EDB)	19.6	0.200	20.00	0	98.2	77.9	122				
Chlorobenzene	20.2	0.500	20.00	0	101	84.3	121				
1,1,1,2-Tetrachloroethane	20.2	0.500	20.00	0	101	80.3	123				
Bromoform	19.0	0.500	20.00	0	95.1	69.3	129				

Work Order: 2009186
 CLIENT: PES Environmental, Inc.
 Project: BSB

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-29684	SampType: LCS	Units: µg/L				Prep Date: 9/16/2020	RunNo: 61931				
Client ID: LCSW	Batch ID: 29684					Analysis Date: 9/16/2020	SeqNo: 1242018				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	20.4	0.500	20.00	0	102	74.4	133				
Bromobenzene	20.2	0.500	20.00	0	101	85.1	120				
2-Chlorotoluene	20.5	0.500	20.00	0	102	84.2	123				
4-Chlorotoluene	20.6	0.500	20.00	0	103	82.3	123				
1,2,3-Trichloropropane	18.7	2.00	20.00	0	93.3	73.6	118				
1,2,4-Trichlorobenzene	19.2	1.00	20.00	0	96.1	73.2	129				
1,3-Dichlorobenzene	20.9	0.500	20.00	0	105	87.3	121				
1,4-Dichlorobenzene	20.8	0.500	20.00	0	104	87.4	119				
1,2-Dichlorobenzene	20.5	0.500	20.00	0	102	87.8	119				
1,2-Dibromo-3-chloropropane	19.9	1.00	20.00	0	99.5	61.6	135				
Hexachloro-1,3-butadiene	21.5	2.00	20.00	0	107	79.8	129				
1,2,3-Trichlorobenzene	19.6	0.500	20.00	0	97.8	72.3	131				
Surr: Dibromofluoromethane	25.9		25.00		103	84.8	113				
Surr: Toluene-d8	25.3		25.00		101	88.5	110				
Surr: 1-Bromo-4-fluorobenzene	25.5		25.00		102	89.9	108				

Sample ID: MB-29684	SampType: MBLK	Units: µg/L				Prep Date: 9/16/2020	RunNo: 61931				
Client ID: MBLKW	Batch ID: 29684					Analysis Date: 9/16/2020	SeqNo: 1242019				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	1.00									
Chloromethane	ND	0.789									MDL
Vinyl chloride	ND	0.200									
Bromomethane	ND	0.500									Q
Trichlorofluoromethane (CFC-11)	ND	0.500									
Chloroethane	ND	0.500									
1,1-Dichloroethene	ND	0.500									
Methylene chloride	ND	1.00									
trans-1,2-Dichloroethene	ND	0.500									
1,1-Dichloroethane	ND	0.500									

Work Order: 2009186
CLIENT: PES Environmental, Inc.
Project: BSB

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-29684	SampType: MBLK	Units: µg/L	Prep Date: 9/16/2020	RunNo: 61931							
Client ID: MBLKW	Batch ID: 29684		Analysis Date: 9/16/2020	SeqNo: 1242019							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

cis-1,2-Dichloroethene	ND	0.500									
Chloroform	ND	1.00									
1,1,1-Trichloroethane (TCA)	ND	0.500									
1,1-Dichloropropene	ND	0.500									
Carbon tetrachloride	ND	0.500									
1,2-Dichloroethane (EDC)	ND	0.500									
Trichloroethene (TCE)	ND	0.500									
1,2-Dichloropropane	ND	0.500									
Bromodichloromethane	ND	0.500									
Dibromomethane	ND	0.500									
cis-1,3-Dichloropropene	ND	0.500									
trans-1,3-Dichloropropylene	ND	0.500									
1,1,2-Trichloroethane	ND	0.500									
1,3-Dichloropropane	ND	0.500									
Tetrachloroethene (PCE)	ND	0.500									
Dibromochloromethane	ND	0.500									
1,2-Dibromoethane (EDB)	ND	0.200									
Chlorobenzene	ND	0.500									
1,1,1,2-Tetrachloroethane	ND	0.500									
Bromoform	ND	0.500									
1,1,2,2-Tetrachloroethane	ND	0.500									
Bromobenzene	ND	0.500									
2-Chlorotoluene	ND	0.500									
4-Chlorotoluene	ND	0.500									
1,2,3-Trichloropropane	ND	2.00									
1,2,4-Trichlorobenzene	ND	1.00									
1,3-Dichlorobenzene	ND	0.500									
1,4-Dichlorobenzene	ND	0.500									
1,2-Dichlorobenzene	ND	0.500									
1,2-Dibromo-3-chloropropane	ND	1.00									

Work Order: 2009186
 CLIENT: PES Environmental, Inc.
 Project: BSB

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-29684	SampType: MBLK	Units: µg/L	Prep Date: 9/16/2020	RunNo: 61931							
Client ID: MBLKW	Batch ID: 29684		Analysis Date: 9/16/2020	SeqNo: 1242019							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachloro-1,3-butadiene	ND	2.00									
1,2,3-Trichlorobenzene	ND	0.500									
Surr: Dibromofluoromethane	24.9		25.00		99.8	84.8	113				
Surr: Toluene-d8	24.6		25.00		98.4	88.5	110				
Surr: 1-Bromo-4-fluorobenzene	25.3		25.00		101	89.9	108				

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria
 MDL - Analyte reported to Method Detection Limit (MDL)

Sample ID: 2009175-001BDUP	SampType: DUP	Units: µg/L	Prep Date: 9/16/2020	RunNo: 61931							
Client ID: BATCH	Batch ID: 29684		Analysis Date: 9/16/2020	SeqNo: 1242006							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	1.00						0		30	
Chloromethane	ND	0.500						0		30	
Vinyl chloride	ND	0.200						0		30	
Bromomethane	ND	0.500						0		30	Q
Trichlorofluoromethane (CFC-11)	ND	0.500						0		30	
Chloroethane	ND	0.500						0		30	
1,1-Dichloroethene	ND	0.500						0		30	
Methylene chloride	ND	1.00						0		30	
trans-1,2-Dichloroethene	ND	0.500						0		30	
1,1-Dichloroethane	ND	0.500						0		30	
cis-1,2-Dichloroethene	ND	0.500						0		30	
Chloroform	ND	1.00						0		30	
1,1,1-Trichloroethane (TCA)	ND	0.500						0		30	
1,1-Dichloropropene	ND	0.500						0		30	
Carbon tetrachloride	ND	0.500						0		30	
1,2-Dichloroethane (EDC)	ND	0.500						0		30	
Trichloroethene (TCE)	ND	0.500						0		30	
1,2-Dichloropropane	ND	0.500						0		30	

Work Order: 2009186
 CLIENT: PES Environmental, Inc.
 Project: BSB

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2009175-001BDUP	SampType: DUP	Units: µg/L	Prep Date: 9/16/2020	RunNo: 61931							
Client ID: BATCH	Batch ID: 29684		Analysis Date: 9/16/2020	SeqNo: 1242006							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromodichloromethane	ND	0.500						0		30	
Dibromomethane	ND	0.500						0		30	
cis-1,3-Dichloropropene	ND	0.500						0		30	
trans-1,3-Dichloropropylene	ND	0.500						0		30	
1,1,2-Trichloroethane	ND	0.500						0		30	
1,3-Dichloropropane	ND	0.500						0		30	
Tetrachloroethene (PCE)	ND	0.500						0		30	
Dibromochloromethane	ND	0.500						0		30	
1,2-Dibromoethane (EDB)	ND	0.200						0		30	
Chlorobenzene	ND	0.500						0		30	
1,1,1,2-Tetrachloroethane	ND	0.500						0		30	
Bromoform	ND	0.500						0		30	
1,1,1,2,2-Tetrachloroethane	ND	0.500						0		30	
Bromobenzene	ND	0.500						0		30	
2-Chlorotoluene	ND	0.500						0		30	
4-Chlorotoluene	ND	0.500						0		30	
1,2,3-Trichloropropane	ND	2.00						0		30	
1,2,4-Trichlorobenzene	ND	1.00						0		30	
1,3-Dichlorobenzene	ND	0.500						0		30	
1,4-Dichlorobenzene	ND	0.500						0		30	
1,2-Dichlorobenzene	ND	0.500						0		30	
1,2-Dibromo-3-chloropropane	ND	1.00						0		30	
Hexachloro-1,3-butadiene	ND	2.00						0		30	
1,2,3-Trichlorobenzene	ND	0.500						0		30	
Surr: Dibromofluoromethane	25.6		25.00		102	84.8	113		0		
Surr: Toluene-d8	24.8		25.00		99.1	88.5	110		0		
Surr: 1-Bromo-4-fluorobenzene	25.2		25.00		101	89.9	108		0		

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

Work Order: 2009186
 CLIENT: PES Environmental, Inc.
 Project: BSB

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2009193-003GMS	SampType: MS	Units: µg/L				Prep Date: 9/16/2020	RunNo: 61931				
Client ID: BATCH	Batch ID: 29684					Analysis Date: 9/16/2020	SeqNo: 1242013				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	21.7	1.00	20.00	0	109	17.8	204				
Chloromethane	24.8	0.500	20.00	0	124	46.7	158				
Vinyl chloride	21.9	0.200	20.00	0	110	62.3	148				
Bromomethane	14.0	0.500	20.00	0	69.8	49.7	151				
Trichlorofluoromethane (CFC-11)	21.8	0.500	20.00	0	109	80.6	131				
Chloroethane	20.1	0.500	20.00	0	101	69.7	138				
1,1-Dichloroethene	22.1	0.500	20.00	0	110	77	134				
Methylene chloride	21.2	1.00	20.00	0	106	73.7	126				
trans-1,2-Dichloroethene	21.7	0.500	20.00	0	109	83	127				
1,1-Dichloroethane	21.7	0.500	20.00	0	108	70.3	133				
cis-1,2-Dichloroethene	21.4	0.500	20.00	0	107	83.7	122				
Chloroform	21.7	1.00	20.00	0	109	81.9	122				
1,1,1-Trichloroethane (TCA)	22.2	0.500	20.00	0	111	78.2	133				
1,1-Dichloropropene	22.5	0.500	20.00	0	113	84.1	127				
Carbon tetrachloride	21.7	0.500	20.00	0	109	81.8	129				
1,2-Dichloroethane (EDC)	21.3	0.500	20.00	0	107	73.3	123				
Trichloroethene (TCE)	21.0	0.500	20.00	0	105	75.5	132				
1,2-Dichloropropane	21.6	0.500	20.00	0	108	79.2	124				
Bromodichloromethane	21.5	0.500	20.00	0	107	78.4	122				
Dibromomethane	21.2	0.500	20.00	0	106	78.3	122				
cis-1,3-Dichloropropene	21.5	0.500	20.00	0	108	77.6	117				
trans-1,3-Dichloropropylene	22.3	0.500	20.00	0	111	72.5	122				
1,1,2-Trichloroethane	20.8	0.500	20.00	0	104	78.2	125				
1,3-Dichloropropane	21.3	0.500	20.00	0	106	76.7	124				
Tetrachloroethene (PCE)	22.2	0.500	20.00	0	111	90.5	121				
Dibromochloromethane	21.1	0.500	20.00	0	106	77.1	122				
1,2-Dibromoethane (EDB)	21.5	0.200	20.00	0	107	77.9	122				
Chlorobenzene	21.5	0.500	20.00	0	108	84.3	121				
1,1,1,2-Tetrachloroethane	21.3	0.500	20.00	0	107	80.3	123				
Bromoform	20.7	0.500	20.00	0	103	69.3	129				

Work Order: 2009186
 CLIENT: PES Environmental, Inc.
 Project: BSB

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2009193-003GMS	SampType: MS	Units: µg/L				Prep Date: 9/16/2020	RunNo: 61931				
Client ID: BATCH	Batch ID: 29684					Analysis Date: 9/16/2020	SeqNo: 1242013				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	23.0	0.500	20.00	0	115	74.4	133				
Bromobenzene	21.4	0.500	20.00	0	107	85.1	120				
2-Chlorotoluene	21.8	0.500	20.00	0	109	84.2	123				
4-Chlorotoluene	21.7	0.500	20.00	0	108	82.3	123				
1,2,3-Trichloropropane	20.4	2.00	20.00	0	102	73.6	118				
1,2,4-Trichlorobenzene	20.1	1.00	20.00	0	101	73.2	129				
1,3-Dichlorobenzene	21.7	0.500	20.00	0	108	87.3	121				
1,4-Dichlorobenzene	21.6	0.500	20.00	0	108	87.4	119				
1,2-Dichlorobenzene	21.5	0.500	20.00	0	108	87.8	119				
1,2-Dibromo-3-chloropropane	22.5	1.00	20.00	0	112	61.6	135				
Hexachloro-1,3-butadiene	22.1	2.00	20.00	0	111	79.8	129				
1,2,3-Trichlorobenzene	21.0	0.500	20.00	0	105	72.3	131				
Surr: Dibromofluoromethane	26.2		25.00		105	84.8	113				
Surr: Toluene-d8	25.2		25.00		101	88.5	110				
Surr: 1-Bromo-4-fluorobenzene	25.3		25.00		101	89.9	108				

Sample ID: 2009193-003GMSD	SampType: MSD	Units: µg/L				Prep Date: 9/16/2020	RunNo: 61931				
Client ID: BATCH	Batch ID: 29684					Analysis Date: 9/16/2020	SeqNo: 1242014				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	20.8	1.00	20.00	0	104	17.8	204	21.72	4.38	30	
Chloromethane	26.2	0.500	20.00	0	131	46.7	158	24.82	5.56	30	
Vinyl chloride	22.1	0.200	20.00	0	110	62.3	148	21.92	0.814	30	
Bromomethane	15.8	0.500	20.00	0	79.2	49.7	151	13.96	12.7	30	
Trichlorofluoromethane (CFC-11)	22.1	0.500	20.00	0	111	80.6	131	21.77	1.57	30	
Chloroethane	18.5	0.500	20.00	0	92.3	69.7	138	20.11	8.60	30	
1,1-Dichloroethene	22.0	0.500	20.00	0	110	77	134	22.10	0.247	30	
Methylene chloride	21.2	1.00	20.00	0	106	73.7	126	21.17	0.205	30	
trans-1,2-Dichloroethene	21.7	0.500	20.00	0	109	83	127	21.71	0.00465	30	
1,1-Dichloroethane	21.7	0.500	20.00	0	109	70.3	133	21.68	0.115	30	

Work Order: 2009186
 CLIENT: PES Environmental, Inc.
 Project: BSB

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2009193-003GMSD	SampType: MSD	Units: µg/L				Prep Date: 9/16/2020	RunNo: 61931				
Client ID: BATCH	Batch ID: 29684					Analysis Date: 9/16/2020	SeqNo: 1242014				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	21.6	0.500	20.00	0	108	83.7	122	21.40	1.09	30	
Chloroform	21.7	1.00	20.00	0	109	81.9	122	21.72	0.0987	30	
1,1,1-Trichloroethane (TCA)	22.0	0.500	20.00	0	110	78.2	133	22.18	0.730	30	
1,1-Dichloropropene	22.4	0.500	20.00	0	112	84.1	127	22.52	0.329	30	
Carbon tetrachloride	21.7	0.500	20.00	0	108	81.8	129	21.74	0.385	30	
1,2-Dichloroethane (EDC)	20.9	0.500	20.00	0	105	73.3	123	21.32	1.78	30	
Trichloroethene (TCE)	20.8	0.500	20.00	0	104	75.5	132	20.98	0.635	30	
1,2-Dichloropropane	21.6	0.500	20.00	0	108	79.2	124	21.61	0.0991	30	
Bromodichloromethane	21.3	0.500	20.00	0	106	78.4	122	21.45	0.846	30	
Dibromomethane	21.1	0.500	20.00	0	106	78.3	122	21.23	0.614	30	
cis-1,3-Dichloropropene	21.3	0.500	20.00	0	107	77.6	117	21.55	0.975	30	
trans-1,3-Dichloropropylene	22.1	0.500	20.00	0	110	72.5	122	22.25	0.914	30	
1,1,2-Trichloroethane	20.5	0.500	20.00	0	103	78.2	125	20.84	1.44	30	
1,3-Dichloropropane	20.8	0.500	20.00	0	104	76.7	124	21.26	2.14	30	
Tetrachloroethene (PCE)	21.9	0.500	20.00	0	109	90.5	121	22.20	1.48	30	
Dibromochloromethane	20.8	0.500	20.00	0	104	77.1	122	21.13	1.35	30	
1,2-Dibromoethane (EDB)	20.9	0.200	20.00	0	105	77.9	122	21.49	2.54	30	
Chlorobenzene	21.7	0.500	20.00	0	109	84.3	121	21.51	0.887	30	
1,1,1,2-Tetrachloroethane	21.5	0.500	20.00	0	108	80.3	123	21.35	0.948	30	
Bromoform	20.6	0.500	20.00	0	103	69.3	129	20.66	0.292	30	
1,1,1,2,2-Tetrachloroethane	22.8	0.500	20.00	0	114	74.4	133	22.95	0.814	30	
Bromobenzene	21.5	0.500	20.00	0	107	85.1	120	21.45	0.166	30	
2-Chlorotoluene	22.0	0.500	20.00	0	110	84.2	123	21.77	0.866	30	
4-Chlorotoluene	21.9	0.500	20.00	0	110	82.3	123	21.67	1.23	30	
1,2,3-Trichloropropane	20.1	2.00	20.00	0	100	73.6	118	20.35	1.46	30	
1,2,4-Trichlorobenzene	22.1	1.00	20.00	0	111	73.2	129	20.11	9.58	30	
1,3-Dichlorobenzene	22.1	0.500	20.00	0	110	87.3	121	21.69	1.75	30	
1,4-Dichlorobenzene	22.0	0.500	20.00	0	110	87.4	119	21.57	2.14	30	
1,2-Dichlorobenzene	21.8	0.500	20.00	0	109	87.8	119	21.52	1.13	30	
1,2-Dibromo-3-chloropropane	22.2	1.00	20.00	0	111	61.6	135	22.47	1.30	30	

Work Order: 2009186
CLIENT: PES Environmental, Inc.
Project: BSB

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2009193-003GMSD	SampType: MSD	Units: µg/L	Prep Date: 9/16/2020	RunNo: 61931							
Client ID: BATCH	Batch ID: 29684		Analysis Date: 9/16/2020	SeqNo: 1242014							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachloro-1,3-butadiene	23.3	2.00	20.00	0	117	79.8	129	22.12	5.31	30	
1,2,3-Trichlorobenzene	22.6	0.500	20.00	0	113	72.3	131	21.03	7.22	30	
Surr: Dibromofluoromethane	26.0		25.00		104	84.8	113		0		
Surr: Toluene-d8	24.9		25.00		99.4	88.5	110		0		
Surr: 1-Bromo-4-fluorobenzene	25.6		25.00		102	89.9	108		0		

Client Name: PES	Work Order Number: 2009186
Logged by: Gabrielle Coeulle	Date Received: 9/11/2020 4:05:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	5.2

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont
Analytical

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Client: **PCS Environmental**
Address: **1215 4th Ave # 1350**
City, State, Zip: **Seattle, WA, 98101**
Telephone: **206-529-3980**
Fax: **206-529-3985**

Date: **9/11/2020** Page: **1** of: **1**
Project Name: **B5B**
Project No: **827.001.45.024**
Collected by: **Sean Kounovsky**
Location: **Kent, WA**
Report To (PM): **Bill Halderman**
PM Email: **Bhalderman@pcsenv.com**

Laboratory Project No (Internal): **2009184**
Special Remarks:
Sample Disposal: Return to client Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DO)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**	ED8 (8011)	HVOCs by 8260D	Comments
1 HY-13i-091020	9/10/20	0910	W															
2 HY-11s-091020	9/10/20	1015	W															
3 HY-11i-091020	9/10/20	1050	W															
4																		
5																		
6																		
7																		
8																		
9																		
10																		

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Retrieved: **9/11/2020 @ 1500** Date/Time
 Received: **9/11/2020 @ 1605** Date/Time
 Same Day 3 Day 2 Day Next Day Turn-around Time: Standard (specify) _____

MEMORANDUM

TO: Project File **DATE:** October 5, 2020
FROM: Jessie Compeau
SUBJECT: Laboratory Data Validation Review
PROJECT: BSB Property – Shallow Aquifer Cleanup Action
PROJECT #: 827.001.45.005
TASK: EIM Data Validation Level EPA2A for September 2020 - Groundwater Samples
LAB: Fremont Work Order Number 20090142 and 2009186

Sixteen (16) groundwater samples (including one field duplicate) and one (1) trip blank were collected September 8-10, 2020, as part of a shallow aquifer cleanup action at the BSB Diversified Facility in Kent, Washington. The samples were analyzed for halogenated volatile organic compounds (VOCs) using USEPA Method 8260D. Laboratory analyses were conducted by Fremont Analytical (Fremont) of Seattle, Washington. The quality assurance review of the sample data is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with Fremont control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017).

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice delivered to the analytical laboratory. The laboratory reported that the coolers were received at cooler temperatures were received within the recommended temperature preservation of 6°C. The laboratory reported that the samples were received in good condition with cooling materials. No data were qualified based upon the sample collection and preservation information.

Holding Times

All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved waters from the date of collection. All holding time criteria were met.

Initial and Continuing Calibration

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. These data were not provided nor requested for this project however Fremont indicated within the laboratory report that continuing calibration criteria did not meet acceptance criteria for the following:

- Work Order 2009142: VOC CCV criteria are not met for several compounds and Fremont qualified associated results (Q). **Associated water sample results for laboratory qualified (Q) VOC compounds as estimated (J/UJ) because CCV acceptance criteria are not met.**

Method Blank Results

Laboratory method blanks are included with the analytical batches per method requirement. The target analytes are not detected in the method blanks at or above the reporting limits (RLs). No qualifications of the data are made due to the results of the method blank analysis.

Trip Blank Results

One trip blank (TB-090920) was collected and analyzed. The target analytes are not detected in the trip blank at or above the RLs. No qualifications of the data are made due to the results of the trip blank analysis.

Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

Field Duplicate Analyses

Field duplicate sample pairs are as follows:

- Work Order 2009142: Samples HYCP-7i-090920 and MW-101-090920

Field duplicates were submitted and analyzed with the sample group. VOC target analyte results are comparable and within 30 relative percent difference (RPD).

Laboratory Duplicate Analyses

Laboratory duplicate samples were performed on client sample HY-1s-090820 and on a non-client sample within the analytical batches. The primary/duplicate RPDs were within the laboratory control limit of 30%. Duplicate data are acceptable.

Surrogate Recoveries

The surrogate recovery results for the samples, duplicates, laboratory control samples, matrix spike samples, trip blank, and the method blank are within the laboratory surrogate control limits.

Laboratory Control Samples

Laboratory control sample/laboratory control sample duplicates (LCS/LCSD) were analyzed by USEPA Method 8260D. The LCS or LCS/LCSD %R's and RPDs for the target compounds are within the laboratory control criteria for waters.

Matrix Spike/Matrix Spike Duplicates

Matrix spike and matrix spike duplicate (MS/MSD) analyses were performed on a non-client sample within the analytical batch. The MS/MSD %Rs and RPDs for all target compounds were within the laboratory control criteria for water. Refer to LCS and laboratory duplicate data for additional accuracy and precision data.

Quantitation Limits

Selected targets compounds (chloromethane, carbon tetrachloride, and bromoform) were reported to the method detection limit (MDL). No action was taken other than to note that the associated method blank was also reported to the MDL for these compounds.

Results of the VOC analyses were reported based on laboratory RLs for all compounds. Selected samples were diluted due to elevated concentrations of various target analytes. In these cases, the RLs are raised. The RLs used for this sample group were acceptable for the project.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- An electronic data deliverable (EDD) for this SDG is provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy laboratory report however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017)

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.



Analytical Report

Work Order: 2009142
Date Reported: 9/17/2020

Client: PES Environmental, Inc.

Collection Date: 9/8/2020 2:45:00 PM

Project: BSB

Lab ID: 2009142-001

Matrix: Groundwater

Client Sample ID: HY-1s-090820

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	UJ	1.00	Q	µg/L	1	9/15/2020 10:26:32 AM
Chloromethane	ND		0.500	MDL	µg/L	1	9/15/2020 10:26:32 AM
Vinyl chloride	14.1		0.200		µg/L	1	9/15/2020 10:26:32 AM
Bromomethane	ND	UJ	0.500	Q	µg/L	1	9/15/2020 10:26:32 AM
Trichlorofluoromethane (CFC-11)	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
Chloroethane	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
1,1-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
Methylene chloride	ND		1.00		µg/L	1	9/15/2020 10:26:32 AM
trans-1,2-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
1,1-Dichloroethane	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
cis-1,2-Dichloroethene	2.40		0.500		µg/L	1	9/15/2020 10:26:32 AM
Chloroform	ND		1.00		µg/L	1	9/15/2020 10:26:32 AM
1,1,1-Trichloroethane (TCA)	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
1,1-Dichloropropene	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
Carbon tetrachloride	ND		0.500	MDL	µg/L	1	9/15/2020 10:26:32 AM
1,2-Dichloroethane (EDC)	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
Trichloroethene (TCE)	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
1,2-Dichloropropane	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
Bromodichloromethane	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
Dibromomethane	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
cis-1,3-Dichloropropene	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
trans-1,3-Dichloropropylene	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
1,1,2-Trichloroethane	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
1,3-Dichloropropane	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
Tetrachloroethene (PCE)	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
Dibromochloromethane	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
1,2-Dibromoethane (EDB)	ND		0.200		µg/L	1	9/15/2020 10:26:32 AM
Chlorobenzene	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
1,1,1,2-Tetrachloroethane	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
Bromoform	ND		0.500	MDL	µg/L	1	9/15/2020 10:26:32 AM
1,1,2,2-Tetrachloroethane	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
Bromobenzene	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
2-Chlorotoluene	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
4-Chlorotoluene	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
1,2,3-Trichloropropane	ND		2.00		µg/L	1	9/15/2020 10:26:32 AM
1,2,4-Trichlorobenzene	ND		1.00		µg/L	1	9/15/2020 10:26:32 AM
1,3-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
1,4-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM
1,2-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 10:26:32 AM

Original



Client: PES Environmental, Inc.

Collection Date: 9/8/2020 2:45:00 PM

Project: BSB

Lab ID: 2009142-001

Matrix: Groundwater

Client Sample ID: HY-1s-090820

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/15/2020 10:26:32 AM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/15/2020 10:26:32 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/15/2020 10:26:32 AM
Surr: Dibromofluoromethane	105	84.8 - 113		%Rec	1	9/15/2020 10:26:32 AM
Surr: Toluene-d8	98.0	88.5 - 110		%Rec	1	9/15/2020 10:26:32 AM
Surr: 1-Bromo-4-fluorobenzene	101	89.9 - 108		%Rec	1	9/15/2020 10:26:32 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)

JC 10/5/2020



Client: PES Environmental, Inc.

Collection Date: 9/8/2020 3:20:00 PM

Project: BSB

Lab ID: 2009142-002

Matrix: Groundwater

Client Sample ID: HY-1i-090820

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	UJ	1.00	Q	µg/L	1	9/15/2020 11:27:01 AM
Chloromethane	ND		0.500	MDL	µg/L	1	9/15/2020 11:27:01 AM
Vinyl chloride	0.759		0.200		µg/L	1	9/15/2020 11:27:01 AM
Bromomethane	ND	UJ	0.500	Q	µg/L	1	9/15/2020 11:27:01 AM
Trichlorofluoromethane (CFC-11)	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
Chloroethane	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
1,1-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
Methylene chloride	ND		1.00		µg/L	1	9/15/2020 11:27:01 AM
trans-1,2-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
1,1-Dichloroethane	0.777		0.500		µg/L	1	9/15/2020 11:27:01 AM
cis-1,2-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
Chloroform	ND		1.00		µg/L	1	9/15/2020 11:27:01 AM
1,1,1-Trichloroethane (TCA)	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
1,1-Dichloropropene	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
Carbon tetrachloride	ND		0.500	MDL	µg/L	1	9/15/2020 11:27:01 AM
1,2-Dichloroethane (EDC)	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
Trichloroethene (TCE)	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
1,2-Dichloropropane	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
Bromodichloromethane	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
Dibromomethane	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
cis-1,3-Dichloropropene	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
trans-1,3-Dichloropropylene	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
1,1,2-Trichloroethane	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
1,3-Dichloropropane	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
Tetrachloroethene (PCE)	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
Dibromochloromethane	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
1,2-Dibromoethane (EDB)	ND		0.200		µg/L	1	9/15/2020 11:27:01 AM
Chlorobenzene	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
1,1,1,2-Tetrachloroethane	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
Bromoform	ND		0.500	MDL	µg/L	1	9/15/2020 11:27:01 AM
1,1,2,2-Tetrachloroethane	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
Bromobenzene	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
2-Chlorotoluene	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
4-Chlorotoluene	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
1,2,3-Trichloropropane	ND		2.00		µg/L	1	9/15/2020 11:27:01 AM
1,2,4-Trichlorobenzene	ND		1.00		µg/L	1	9/15/2020 11:27:01 AM
1,3-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
1,4-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM
1,2-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 11:27:01 AM



Client: PES Environmental, Inc.

Collection Date: 9/8/2020 3:20:00 PM

Project: BSB

Lab ID: 2009142-002

Matrix: Groundwater

Client Sample ID: HY-1i-090820

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/15/2020 11:27:01 AM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/15/2020 11:27:01 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/15/2020 11:27:01 AM
Surr: Dibromofluoromethane	101	84.8 - 113		%Rec	1	9/15/2020 11:27:01 AM
Surr: Toluene-d8	98.9	88.5 - 110		%Rec	1	9/15/2020 11:27:01 AM
Surr: 1-Bromo-4-fluorobenzene	101	89.9 - 108		%Rec	1	9/15/2020 11:27:01 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/8/2020 4:25:00 PM

Project: BSB

Lab ID: 2009142-003

Matrix: Groundwater

Client Sample ID: HY-12i-090820

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	UJ	50.0	DQ	µg/L	50	9/15/2020 9:32:43 PM
Chloromethane	ND		39.4	DMDL	µg/L	50	9/15/2020 9:32:43 PM
Vinyl chloride	41,400		1,000	D	µg/L	5000	9/15/2020 7:31:24 PM
Bromomethane	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
Trichlorofluoromethane (CFC-11)	ND	UJ	25.0	DQ	µg/L	50	9/15/2020 9:32:43 PM
Chloroethane	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,1-Dichloroethene	419		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
Methylene chloride	ND		50.0	D	µg/L	50	9/15/2020 9:32:43 PM
trans-1,2-Dichloroethene	3,190		250	D	µg/L	500	9/15/2020 8:31:54 PM
1,1-Dichloroethane	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
cis-1,2-Dichloroethene	101,000		2,500	D	µg/L	5000	9/15/2020 7:31:24 PM
Chloroform	ND		50.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,1,1-Trichloroethane (TCA)	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,1-Dichloropropene	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
Carbon tetrachloride	ND		7.01	DMDL	µg/L	50	9/15/2020 9:32:43 PM
1,2-Dichloroethane (EDC)	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
Trichloroethene (TCE)	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,2-Dichloropropane	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
Bromodichloromethane	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
Dibromomethane	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
cis-1,3-Dichloropropene	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
trans-1,3-Dichloropropylene	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,1,2-Trichloroethane	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,3-Dichloropropane	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
Tetrachloroethene (PCE)	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
Dibromochloromethane	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,2-Dibromoethane (EDB)	ND		10.0	D	µg/L	50	9/15/2020 9:32:43 PM
Chlorobenzene	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,1,1,2-Tetrachloroethane	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
Bromoform	ND		6.73	DMDL	µg/L	50	9/15/2020 9:32:43 PM
1,1,2,2-Tetrachloroethane	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
Bromobenzene	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
2-Chlorotoluene	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
4-Chlorotoluene	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,2,3-Trichloropropane	ND		100	D	µg/L	50	9/15/2020 9:32:43 PM
1,2,4-Trichlorobenzene	ND		50.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,3-Dichlorobenzene	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,4-Dichlorobenzene	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM
1,2-Dichlorobenzene	ND		25.0	D	µg/L	50	9/15/2020 9:32:43 PM



Client: PES Environmental, Inc.

Collection Date: 9/8/2020 4:25:00 PM

Project: BSB

Lab ID: 2009142-003

Matrix: Groundwater

Client Sample ID: HY-12i-090820

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	50.0	D	µg/L	50	9/15/2020 9:32:43 PM
Hexachloro-1,3-butadiene	ND	100	D	µg/L	50	9/15/2020 9:32:43 PM
1,2,3-Trichlorobenzene	ND	25.0	D	µg/L	50	9/15/2020 9:32:43 PM
Surr: Dibromofluoromethane	91.6	84.8 - 113	D	%Rec	50	9/15/2020 9:32:43 PM
Surr: Toluene-d8	95.7	88.5 - 110	D	%Rec	50	9/15/2020 9:32:43 PM
Surr: 1-Bromo-4-fluorobenzene	99.1	89.9 - 108	D	%Rec	50	9/15/2020 9:32:43 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/8/2020 5:15:00 PM

Project: BSB

Lab ID: 2009142-004

Matrix: Groundwater

Client Sample ID: HY-7s-090820

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	UJ	1.00	Q	µg/L	1	9/15/2020 11:57:13 AM
Chloromethane	ND		0.500	MDL	µg/L	1	9/15/2020 11:57:13 AM
Vinyl chloride	ND		0.200		µg/L	1	9/15/2020 11:57:13 AM
Bromomethane	ND	UJ	0.500	Q	µg/L	1	9/15/2020 11:57:13 AM
Trichlorofluoromethane (CFC-11)	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
Chloroethane	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
1,1-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
Methylene chloride	ND		1.00		µg/L	1	9/15/2020 11:57:13 AM
trans-1,2-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
1,1-Dichloroethane	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
cis-1,2-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
Chloroform	ND		1.00		µg/L	1	9/15/2020 11:57:13 AM
1,1,1-Trichloroethane (TCA)	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
1,1-Dichloropropene	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
Carbon tetrachloride	ND		0.500	MDL	µg/L	1	9/15/2020 11:57:13 AM
1,2-Dichloroethane (EDC)	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
Trichloroethene (TCE)	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
1,2-Dichloropropane	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
Bromodichloromethane	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
Dibromomethane	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
cis-1,3-Dichloropropene	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
trans-1,3-Dichloropropylene	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
1,1,2-Trichloroethane	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
1,3-Dichloropropane	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
Tetrachloroethene (PCE)	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
Dibromochloromethane	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
1,2-Dibromoethane (EDB)	ND		0.200		µg/L	1	9/15/2020 11:57:13 AM
Chlorobenzene	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
1,1,1,2-Tetrachloroethane	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
Bromoform	ND		0.500	MDL	µg/L	1	9/15/2020 11:57:13 AM
1,1,2,2-Tetrachloroethane	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
Bromobenzene	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
2-Chlorotoluene	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
4-Chlorotoluene	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
1,2,3-Trichloropropane	ND		2.00		µg/L	1	9/15/2020 11:57:13 AM
1,2,4-Trichlorobenzene	ND		1.00		µg/L	1	9/15/2020 11:57:13 AM
1,3-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
1,4-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM
1,2-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 11:57:13 AM



Client: PES Environmental, Inc.

Collection Date: 9/8/2020 5:15:00 PM

Project: BSB

Lab ID: 2009142-004

Matrix: Groundwater

Client Sample ID: HY-7s-090820

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/15/2020 11:57:13 AM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/15/2020 11:57:13 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/15/2020 11:57:13 AM
Surr: Dibromofluoromethane	104	84.8 - 113		%Rec	1	9/15/2020 11:57:13 AM
Surr: Toluene-d8	98.7	88.5 - 110		%Rec	1	9/15/2020 11:57:13 AM
Surr: 1-Bromo-4-fluorobenzene	99.9	89.9 - 108		%Rec	1	9/15/2020 11:57:13 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 8:30:00 AM

Project: BSB

Lab ID: 2009142-005

Matrix: Groundwater

Client Sample ID: MW-101-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	UJ	1.00	Q	µg/L	1	9/15/2020 12:27:32 PM
Chloromethane	ND		0.500	MDL	µg/L	1	9/15/2020 12:27:32 PM
Vinyl chloride	ND		0.200		µg/L	1	9/15/2020 12:27:32 PM
Bromomethane	ND	UJ	0.500	Q	µg/L	1	9/15/2020 12:27:32 PM
Trichlorofluoromethane (CFC-11)	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
Chloroethane	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
1,1-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
Methylene chloride	ND		1.00		µg/L	1	9/15/2020 12:27:32 PM
trans-1,2-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
1,1-Dichloroethane	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
cis-1,2-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
Chloroform	ND		1.00		µg/L	1	9/15/2020 12:27:32 PM
1,1,1-Trichloroethane (TCA)	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
1,1-Dichloropropene	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
Carbon tetrachloride	ND		0.500	MDL	µg/L	1	9/15/2020 12:27:32 PM
1,2-Dichloroethane (EDC)	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
Trichloroethene (TCE)	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
1,2-Dichloropropane	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
Bromodichloromethane	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
Dibromomethane	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
cis-1,3-Dichloropropene	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
trans-1,3-Dichloropropylene	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
1,1,2-Trichloroethane	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
1,3-Dichloropropane	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
Tetrachloroethene (PCE)	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
Dibromochloromethane	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
1,2-Dibromoethane (EDB)	ND		0.200		µg/L	1	9/15/2020 12:27:32 PM
Chlorobenzene	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
1,1,1,2-Tetrachloroethane	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
Bromoform	ND		0.500	MDL	µg/L	1	9/15/2020 12:27:32 PM
1,1,2,2-Tetrachloroethane	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
Bromobenzene	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
2-Chlorotoluene	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
4-Chlorotoluene	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
1,2,3-Trichloropropane	ND		2.00		µg/L	1	9/15/2020 12:27:32 PM
1,2,4-Trichlorobenzene	ND		1.00		µg/L	1	9/15/2020 12:27:32 PM
1,3-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
1,4-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM
1,2-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 12:27:32 PM



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 8:30:00 AM

Project: BSB

Lab ID: 2009142-005

Matrix: Groundwater

Client Sample ID: MW-101-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/15/2020 12:27:32 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/15/2020 12:27:32 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/15/2020 12:27:32 PM
Surr: Dibromofluoromethane	101	84.8 - 113		%Rec	1	9/15/2020 12:27:32 PM
Surr: Toluene-d8	98.8	88.5 - 110		%Rec	1	9/15/2020 12:27:32 PM
Surr: 1-Bromo-4-fluorobenzene	101	89.9 - 108		%Rec	1	9/15/2020 12:27:32 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 9:05:00 AM

Project: BSB

Lab ID: 2009142-006

Matrix: Groundwater

Client Sample ID: HYCP-3i-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	UJ	20.0	DQ	µg/L	20	9/15/2020 9:02:26 PM
Chloromethane	ND		15.8	DMDL	µg/L	20	9/15/2020 9:02:26 PM
Vinyl chloride	9,900		200	D	µg/L	1000	9/15/2020 8:01:38 PM
Bromomethane	ND	UJ	10.0	DQ	µg/L	20	9/15/2020 9:02:26 PM
Trichlorofluoromethane (CFC-11)	ND		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
Chloroethane	ND		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,1-Dichloroethene	18.9		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
Methylene chloride	ND		20.0	D	µg/L	20	9/15/2020 9:02:26 PM
trans-1,2-Dichloroethene	275		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,1-Dichloroethane	3.50		10.0	JD	µg/L	20	9/15/2020 9:02:26 PM
cis-1,2-Dichloroethene	14,700		500	D	µg/L	1000	9/15/2020 8:01:38 PM
Chloroform	ND		20.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,1,1-Trichloroethane (TCA)	ND		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,1-Dichloropropene	ND		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
Carbon tetrachloride	ND		2.80	DMDL	µg/L	20	9/15/2020 9:02:26 PM
1,2-Dichloroethane (EDC)	ND		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
Trichloroethene (TCE)	12.8		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,2-Dichloropropane	ND		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
Bromodichloromethane	ND		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
Dibromomethane	ND		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
cis-1,3-Dichloropropene	ND		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
trans-1,3-Dichloropropylene	ND		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,1,2-Trichloroethane	ND		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,3-Dichloropropane	ND		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
Tetrachloroethene (PCE)	ND		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
Dibromochloromethane	ND		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,2-Dibromoethane (EDB)	ND		4.00	D	µg/L	20	9/15/2020 9:02:26 PM
Chlorobenzene	ND		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,1,1,2-Tetrachloroethane	ND		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
Bromoform	ND		2.69	DMDL	µg/L	20	9/15/2020 9:02:26 PM
1,1,2,2-Tetrachloroethane	ND		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
Bromobenzene	ND		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
2-Chlorotoluene	ND		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
4-Chlorotoluene	ND		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,2,3-Trichloropropane	ND		40.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,2,4-Trichlorobenzene	ND		20.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,3-Dichlorobenzene	ND		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,4-Dichlorobenzene	ND		10.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,2-Dichlorobenzene	ND		10.0	D	µg/L	20	9/15/2020 9:02:26 PM



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 9:05:00 AM

Project: BSB

Lab ID: 2009142-006

Matrix: Groundwater

Client Sample ID: HYCP-3i-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	20.0	D	µg/L	20	9/15/2020 9:02:26 PM
Hexachloro-1,3-butadiene	ND	40.0	D	µg/L	20	9/15/2020 9:02:26 PM
1,2,3-Trichlorobenzene	ND	10.0	D	µg/L	20	9/15/2020 9:02:26 PM
Surr: Dibromofluoromethane	96.5	84.8 - 113	D	%Rec	20	9/15/2020 9:02:26 PM
Surr: Toluene-d8	96.3	88.5 - 110	D	%Rec	20	9/15/2020 9:02:26 PM
Surr: 1-Bromo-4-fluorobenzene	99.1	89.9 - 108	D	%Rec	20	9/15/2020 9:02:26 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 9:55:00 AM

Project: BSB

Lab ID: 2009142-007

Matrix: Groundwater

Client Sample ID: HYCP-7i-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	UJ	1.00	Q	µg/L	1	9/15/2020 3:29:20 PM
Chloromethane	ND		0.500	MDL	µg/L	1	9/15/2020 3:29:20 PM
Vinyl chloride	ND		0.200		µg/L	1	9/15/2020 3:29:20 PM
Bromomethane	ND	UJ	0.500	Q	µg/L	1	9/15/2020 3:29:20 PM
Trichlorofluoromethane (CFC-11)	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
Chloroethane	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
1,1-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
Methylene chloride	ND		1.00		µg/L	1	9/15/2020 3:29:20 PM
trans-1,2-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
1,1-Dichloroethane	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
cis-1,2-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
Chloroform	ND		1.00		µg/L	1	9/15/2020 3:29:20 PM
1,1,1-Trichloroethane (TCA)	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
1,1-Dichloropropene	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
Carbon tetrachloride	ND		0.500	MDL	µg/L	1	9/15/2020 3:29:20 PM
1,2-Dichloroethane (EDC)	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
Trichloroethene (TCE)	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
1,2-Dichloropropane	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
Bromodichloromethane	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
Dibromomethane	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
cis-1,3-Dichloropropene	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
trans-1,3-Dichloropropylene	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
1,1,2-Trichloroethane	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
1,3-Dichloropropane	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
Tetrachloroethene (PCE)	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
Dibromochloromethane	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
1,2-Dibromoethane (EDB)	ND		0.200		µg/L	1	9/15/2020 3:29:20 PM
Chlorobenzene	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
1,1,1,2-Tetrachloroethane	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
Bromoform	ND		0.500	MDL	µg/L	1	9/15/2020 3:29:20 PM
1,1,2,2-Tetrachloroethane	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
Bromobenzene	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
2-Chlorotoluene	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
4-Chlorotoluene	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
1,2,3-Trichloropropane	ND		2.00		µg/L	1	9/15/2020 3:29:20 PM
1,2,4-Trichlorobenzene	ND		1.00		µg/L	1	9/15/2020 3:29:20 PM
1,3-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
1,4-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM
1,2-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 3:29:20 PM



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 9:55:00 AM

Project: BSB

Lab ID: 2009142-007

Matrix: Groundwater

Client Sample ID: HYCP-7i-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/15/2020 3:29:20 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/15/2020 3:29:20 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/15/2020 3:29:20 PM
Surr: Dibromofluoromethane	100	84.8 - 113		%Rec	1	9/15/2020 3:29:20 PM
Surr: Toluene-d8	99.3	88.5 - 110		%Rec	1	9/15/2020 3:29:20 PM
Surr: 1-Bromo-4-fluorobenzene	100	89.9 - 108		%Rec	1	9/15/2020 3:29:20 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 10:45:00 AM

Project: BSB

Lab ID: 2009142-008

Matrix: Groundwater

Client Sample ID: HYCP-2-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	UJ	1.00	Q	µg/L	1	9/15/2020 3:59:35 PM
Chloromethane	ND		0.500	MDL	µg/L	1	9/15/2020 3:59:35 PM
Vinyl chloride	ND		0.200		µg/L	1	9/15/2020 3:59:35 PM
Bromomethane	ND	UJ	0.500	Q	µg/L	1	9/15/2020 3:59:35 PM
Trichlorofluoromethane (CFC-11)	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
Chloroethane	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
1,1-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
Methylene chloride	ND		1.00		µg/L	1	9/15/2020 3:59:35 PM
trans-1,2-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
1,1-Dichloroethane	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
cis-1,2-Dichloroethene	0.579		0.500		µg/L	1	9/15/2020 3:59:35 PM
Chloroform	ND		1.00		µg/L	1	9/15/2020 3:59:35 PM
1,1,1-Trichloroethane (TCA)	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
1,1-Dichloropropene	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
Carbon tetrachloride	ND		0.500	MDL	µg/L	1	9/15/2020 3:59:35 PM
1,2-Dichloroethane (EDC)	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
Trichloroethene (TCE)	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
1,2-Dichloropropane	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
Bromodichloromethane	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
Dibromomethane	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
cis-1,3-Dichloropropene	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
trans-1,3-Dichloropropylene	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
1,1,2-Trichloroethane	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
1,3-Dichloropropane	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
Tetrachloroethene (PCE)	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
Dibromochloromethane	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
1,2-Dibromoethane (EDB)	ND		0.200		µg/L	1	9/15/2020 3:59:35 PM
Chlorobenzene	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
1,1,1,2-Tetrachloroethane	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
Bromoform	ND		0.500	MDL	µg/L	1	9/15/2020 3:59:35 PM
1,1,2,2-Tetrachloroethane	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
Bromobenzene	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
2-Chlorotoluene	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
4-Chlorotoluene	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
1,2,3-Trichloropropane	ND		2.00		µg/L	1	9/15/2020 3:59:35 PM
1,2,4-Trichlorobenzene	ND		1.00		µg/L	1	9/15/2020 3:59:35 PM
1,3-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
1,4-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM
1,2-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 3:59:35 PM



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 10:45:00 AM

Project: BSB

Lab ID: 2009142-008

Matrix: Groundwater

Client Sample ID: HYCP-2-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/15/2020 3:59:35 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/15/2020 3:59:35 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/15/2020 3:59:35 PM
Surr: Dibromofluoromethane	105	84.8 - 113		%Rec	1	9/15/2020 3:59:35 PM
Surr: Toluene-d8	99.3	88.5 - 110		%Rec	1	9/15/2020 3:59:35 PM
Surr: 1-Bromo-4-fluorobenzene	99.3	89.9 - 108		%Rec	1	9/15/2020 3:59:35 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 11:15:00 AM

Project: BSB

Lab ID: 2009142-009

Matrix: Groundwater

Client Sample ID: HYCP-2i-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	UJ	1.00	Q	µg/L	1	9/15/2020 4:29:57 PM
Chloromethane	ND		0.500	MDL	µg/L	1	9/15/2020 4:29:57 PM
Vinyl chloride	ND		0.200		µg/L	1	9/15/2020 4:29:57 PM
Bromomethane	ND	UJ	0.500	Q	µg/L	1	9/15/2020 4:29:57 PM
Trichlorofluoromethane (CFC-11)	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
Chloroethane	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
1,1-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
Methylene chloride	ND		1.00		µg/L	1	9/15/2020 4:29:57 PM
trans-1,2-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
1,1-Dichloroethane	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
cis-1,2-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
Chloroform	ND		1.00		µg/L	1	9/15/2020 4:29:57 PM
1,1,1-Trichloroethane (TCA)	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
1,1-Dichloropropene	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
Carbon tetrachloride	ND		0.500	MDL	µg/L	1	9/15/2020 4:29:57 PM
1,2-Dichloroethane (EDC)	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
Trichloroethene (TCE)	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
1,2-Dichloropropane	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
Bromodichloromethane	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
Dibromomethane	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
cis-1,3-Dichloropropene	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
trans-1,3-Dichloropropylene	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
1,1,2-Trichloroethane	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
1,3-Dichloropropane	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
Tetrachloroethene (PCE)	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
Dibromochloromethane	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
1,2-Dibromoethane (EDB)	ND		0.200		µg/L	1	9/15/2020 4:29:57 PM
Chlorobenzene	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
1,1,1,2-Tetrachloroethane	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
Bromoform	ND		0.500	MDL	µg/L	1	9/15/2020 4:29:57 PM
1,1,2,2-Tetrachloroethane	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
Bromobenzene	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
2-Chlorotoluene	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
4-Chlorotoluene	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
1,2,3-Trichloropropane	ND		2.00		µg/L	1	9/15/2020 4:29:57 PM
1,2,4-Trichlorobenzene	ND		1.00		µg/L	1	9/15/2020 4:29:57 PM
1,3-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
1,4-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM
1,2-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 4:29:57 PM



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 11:15:00 AM

Project: BSB

Lab ID: 2009142-009

Matrix: Groundwater

Client Sample ID: HYCP-2i-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/15/2020 4:29:57 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/15/2020 4:29:57 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/15/2020 4:29:57 PM
Surr: Dibromofluoromethane	104	84.8 - 113		%Rec	1	9/15/2020 4:29:57 PM
Surr: Toluene-d8	99.6	88.5 - 110		%Rec	1	9/15/2020 4:29:57 PM
Surr: 1-Bromo-4-fluorobenzene	100	89.9 - 108		%Rec	1	9/15/2020 4:29:57 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 11:55:00 AM

Project: BSB

Lab ID: 2009142-010

Matrix: Groundwater

Client Sample ID: Gi-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	UJ	1.00	Q	µg/L	1	9/15/2020 5:00:17 PM
Chloromethane	ND		0.500	MDL	µg/L	1	9/15/2020 5:00:17 PM
Vinyl chloride	ND		0.200		µg/L	1	9/15/2020 5:00:17 PM
Bromomethane	ND	UJ	0.500	Q	µg/L	1	9/15/2020 5:00:17 PM
Trichlorofluoromethane (CFC-11)	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
Chloroethane	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
1,1-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
Methylene chloride	ND		1.00		µg/L	1	9/15/2020 5:00:17 PM
trans-1,2-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
1,1-Dichloroethane	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
cis-1,2-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
Chloroform	ND		1.00		µg/L	1	9/15/2020 5:00:17 PM
1,1,1-Trichloroethane (TCA)	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
1,1-Dichloropropene	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
Carbon tetrachloride	ND		0.500	MDL	µg/L	1	9/15/2020 5:00:17 PM
1,2-Dichloroethane (EDC)	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
Trichloroethene (TCE)	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
1,2-Dichloropropane	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
Bromodichloromethane	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
Dibromomethane	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
cis-1,3-Dichloropropene	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
trans-1,3-Dichloropropylene	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
1,1,2-Trichloroethane	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
1,3-Dichloropropane	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
Tetrachloroethene (PCE)	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
Dibromochloromethane	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
1,2-Dibromoethane (EDB)	ND		0.200		µg/L	1	9/15/2020 5:00:17 PM
Chlorobenzene	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
1,1,1,2-Tetrachloroethane	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
Bromoform	ND		0.500	MDL	µg/L	1	9/15/2020 5:00:17 PM
1,1,2,2-Tetrachloroethane	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
Bromobenzene	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
2-Chlorotoluene	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
4-Chlorotoluene	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
1,2,3-Trichloropropane	ND		2.00		µg/L	1	9/15/2020 5:00:17 PM
1,2,4-Trichlorobenzene	ND		1.00		µg/L	1	9/15/2020 5:00:17 PM
1,3-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
1,4-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM
1,2-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 5:00:17 PM



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 11:55:00 AM

Project: BSB

Lab ID: 2009142-010

Matrix: Groundwater

Client Sample ID: Gi-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/15/2020 5:00:17 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/15/2020 5:00:17 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/15/2020 5:00:17 PM
Surr: Dibromofluoromethane	101	84.8 - 113		%Rec	1	9/15/2020 5:00:17 PM
Surr: Toluene-d8	99.6	88.5 - 110		%Rec	1	9/15/2020 5:00:17 PM
Surr: 1-Bromo-4-fluorobenzene	100	89.9 - 108		%Rec	1	9/15/2020 5:00:17 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 12:25:00 PM

Project: BSB

Lab ID: 2009142-011

Matrix: Groundwater

Client Sample ID: Gs-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	UJ	1.00	Q	µg/L	1	9/15/2020 5:30:35 PM
Chloromethane	ND		0.500	MDL	µg/L	1	9/15/2020 5:30:35 PM
Vinyl chloride	ND		0.200		µg/L	1	9/15/2020 5:30:35 PM
Bromomethane	ND	UJ	0.500	Q	µg/L	1	9/15/2020 5:30:35 PM
Trichlorofluoromethane (CFC-11)	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
Chloroethane	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
1,1-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
Methylene chloride	ND		1.00		µg/L	1	9/15/2020 5:30:35 PM
trans-1,2-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
1,1-Dichloroethane	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
cis-1,2-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
Chloroform	ND		1.00		µg/L	1	9/15/2020 5:30:35 PM
1,1,1-Trichloroethane (TCA)	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
1,1-Dichloropropene	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
Carbon tetrachloride	ND		0.500	MDL	µg/L	1	9/15/2020 5:30:35 PM
1,2-Dichloroethane (EDC)	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
Trichloroethene (TCE)	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
1,2-Dichloropropane	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
Bromodichloromethane	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
Dibromomethane	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
cis-1,3-Dichloropropene	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
trans-1,3-Dichloropropylene	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
1,1,2-Trichloroethane	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
1,3-Dichloropropane	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
Tetrachloroethene (PCE)	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
Dibromochloromethane	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
1,2-Dibromoethane (EDB)	ND		0.200		µg/L	1	9/15/2020 5:30:35 PM
Chlorobenzene	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
1,1,1,2-Tetrachloroethane	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
Bromoform	ND		0.500	MDL	µg/L	1	9/15/2020 5:30:35 PM
1,1,2,2-Tetrachloroethane	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
Bromobenzene	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
2-Chlorotoluene	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
4-Chlorotoluene	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
1,2,3-Trichloropropane	ND		2.00		µg/L	1	9/15/2020 5:30:35 PM
1,2,4-Trichlorobenzene	ND		1.00		µg/L	1	9/15/2020 5:30:35 PM
1,3-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
1,4-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM
1,2-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 5:30:35 PM



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 12:25:00 PM

Project: BSB

Lab ID: 2009142-011

Matrix: Groundwater

Client Sample ID: Gs-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/15/2020 5:30:35 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/15/2020 5:30:35 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/15/2020 5:30:35 PM
Surr: Dibromofluoromethane	101	84.8 - 113		%Rec	1	9/15/2020 5:30:35 PM
Surr: Toluene-d8	99.5	88.5 - 110		%Rec	1	9/15/2020 5:30:35 PM
Surr: 1-Bromo-4-fluorobenzene	102	89.9 - 108		%Rec	1	9/15/2020 5:30:35 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 1:05:00 PM

Project: BSB

Lab ID: 2009142-012

Matrix: Groundwater

Client Sample ID: Hs-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	UJ	1.00	Q	µg/L	1	9/15/2020 6:00:49 PM
Chloromethane	ND		0.500	MDL	µg/L	1	9/15/2020 6:00:49 PM
Vinyl chloride	ND		0.200		µg/L	1	9/15/2020 6:00:49 PM
Bromomethane	ND	UJ	0.500	Q	µg/L	1	9/15/2020 6:00:49 PM
Trichlorofluoromethane (CFC-11)	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
Chloroethane	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
1,1-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
Methylene chloride	ND		1.00		µg/L	1	9/15/2020 6:00:49 PM
trans-1,2-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
1,1-Dichloroethane	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
cis-1,2-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
Chloroform	ND		1.00		µg/L	1	9/15/2020 6:00:49 PM
1,1,1-Trichloroethane (TCA)	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
1,1-Dichloropropene	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
Carbon tetrachloride	ND		0.500	MDL	µg/L	1	9/15/2020 6:00:49 PM
1,2-Dichloroethane (EDC)	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
Trichloroethene (TCE)	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
1,2-Dichloropropane	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
Bromodichloromethane	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
Dibromomethane	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
cis-1,3-Dichloropropene	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
trans-1,3-Dichloropropylene	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
1,1,2-Trichloroethane	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
1,3-Dichloropropane	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
Tetrachloroethene (PCE)	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
Dibromochloromethane	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
1,2-Dibromoethane (EDB)	ND		0.200		µg/L	1	9/15/2020 6:00:49 PM
Chlorobenzene	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
1,1,1,2-Tetrachloroethane	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
Bromoform	ND		0.500	MDL	µg/L	1	9/15/2020 6:00:49 PM
1,1,2,2-Tetrachloroethane	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
Bromobenzene	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
2-Chlorotoluene	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
4-Chlorotoluene	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
1,2,3-Trichloropropane	ND		2.00		µg/L	1	9/15/2020 6:00:49 PM
1,2,4-Trichlorobenzene	ND		1.00		µg/L	1	9/15/2020 6:00:49 PM
1,3-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
1,4-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM
1,2-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 6:00:49 PM



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 1:05:00 PM

Project: BSB

Lab ID: 2009142-012

Matrix: Groundwater

Client Sample ID: Hs-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/15/2020 6:00:49 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/15/2020 6:00:49 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/15/2020 6:00:49 PM
Surr: Dibromofluoromethane	101	84.8 - 113		%Rec	1	9/15/2020 6:00:49 PM
Surr: Toluene-d8	99.3	88.5 - 110		%Rec	1	9/15/2020 6:00:49 PM
Surr: 1-Bromo-4-fluorobenzene	101	89.9 - 108		%Rec	1	9/15/2020 6:00:49 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 1:30:00 PM

Project: BSB

Lab ID: 2009142-013

Matrix: Groundwater

Client Sample ID: Hi-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	UJ	1.00	Q	µg/L	1	9/15/2020 6:31:06 PM
Chloromethane	ND		0.500	MDL	µg/L	1	9/15/2020 6:31:06 PM
Vinyl chloride	ND		0.200		µg/L	1	9/15/2020 6:31:06 PM
Bromomethane	ND	UJ	0.500	Q	µg/L	1	9/15/2020 6:31:06 PM
Trichlorofluoromethane (CFC-11)	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
Chloroethane	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
1,1-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
Methylene chloride	ND		1.00		µg/L	1	9/15/2020 6:31:06 PM
trans-1,2-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
1,1-Dichloroethane	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
cis-1,2-Dichloroethene	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
Chloroform	ND		1.00		µg/L	1	9/15/2020 6:31:06 PM
1,1,1-Trichloroethane (TCA)	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
1,1-Dichloropropene	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
Carbon tetrachloride	ND		0.500	MDL	µg/L	1	9/15/2020 6:31:06 PM
1,2-Dichloroethane (EDC)	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
Trichloroethene (TCE)	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
1,2-Dichloropropane	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
Bromodichloromethane	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
Dibromomethane	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
cis-1,3-Dichloropropene	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
trans-1,3-Dichloropropylene	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
1,1,2-Trichloroethane	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
1,3-Dichloropropane	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
Tetrachloroethene (PCE)	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
Dibromochloromethane	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
1,2-Dibromoethane (EDB)	ND		0.200		µg/L	1	9/15/2020 6:31:06 PM
Chlorobenzene	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
1,1,1,2-Tetrachloroethane	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
Bromoform	ND		0.500	MDL	µg/L	1	9/15/2020 6:31:06 PM
1,1,2,2-Tetrachloroethane	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
Bromobenzene	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
2-Chlorotoluene	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
4-Chlorotoluene	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
1,2,3-Trichloropropane	ND		2.00		µg/L	1	9/15/2020 6:31:06 PM
1,2,4-Trichlorobenzene	ND		1.00		µg/L	1	9/15/2020 6:31:06 PM
1,3-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
1,4-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM
1,2-Dichlorobenzene	ND		0.500		µg/L	1	9/15/2020 6:31:06 PM



Client: PES Environmental, Inc.

Collection Date: 9/9/2020 1:30:00 PM

Project: BSB

Lab ID: 2009142-013

Matrix: Groundwater

Client Sample ID: Hi-090920

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 29665

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/15/2020 6:31:06 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	9/15/2020 6:31:06 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	9/15/2020 6:31:06 PM
Surr: Dibromofluoromethane	103	84.8 - 113		%Rec	1	9/15/2020 6:31:06 PM
Surr: Toluene-d8	99.7	88.5 - 110		%Rec	1	9/15/2020 6:31:06 PM
Surr: 1-Bromo-4-fluorobenzene	101	89.9 - 108		%Rec	1	9/15/2020 6:31:06 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)