Tables

Table 1
Consent Decree Schedule

Deliverables		Due Date	Completed	Date Completed
A. Administrative				
A.1	Consent Decree entered by the King County Superior Court (Effective Date of the Consent Decree)	Within 5 days of the execution by the Parties	☑	2/1/18
A.2	Notification of selected contractor name and qualifications	Within 5 days of the effective date of Consent Decree (A.1)	☑	2/6/18 (1)
A.3	Progress reports	Quarterly on the 10th of the month beginning after the effective date of Consent Decree (A.1)	☑	Ongoing
A.4	Financial Assurances—submit cost estimate for Ecology review and approval	Within 60 days of the effective date of Consent Decree	☑	4/2/18 (1)
A.5	Financial Assurances—provide proof of financial assurances	Within 60 days after Ecology approves cost estimate (A.4)	☑	6/1/18 (1)
B. Design (2)				
B.1	Draft Pre-Remedial Design (PRDI) Project Plans	Within 5 days of the effective date of Consent Decree (A.1)	☑	12/19/17
B.2	Draft PRDI Data Report and draft Engineering Design Report (EDR)	Within 5 days of Ecology approval of Final PRDI Project Plans (B.1)	☑	3/7/18 (1)
B.3	Final PRDI Data Report and EDR Report	Within 5 days of receipt of Ecology's comments on the Draft PRDI Data and EDR Reports (B.2)	☑	3/12/18
B.4	90% Plans and Specs (per WAC 173-340-400(4)(b))	Within 5 days of receipt of Ecology comments on Final EDR Report (B.3)	☑	Unknown
B.5	100% Plans and Specs	Within 5 days of receipt of Ecology comments on 90% plans and specifications (B.4)	☑	Unknown
C. Field Construction				
C.1	Complete construction procurement	Within 5 days of completion of the 100% plans and specifications (B.1)	☑	Unknown
C.2	ERH System installation	Within 2 months of the effective date of Consent Decree	☑	April 2018 (1)
	ERH operation	Within 6 to 8 months of the effective date of Consent Decree	☑	May-Nov 2018

Table 1
Consent Decree Schedule

Deliverables		Due Date	Completed	Date Completed
C. Field Construction (cont.)				
C.3	Start install and begin operation of bioremediation-groundwater recirculation/SVE systems	Within 2 months of the effective date of Consent Decree	☑	October 2018
C.4	Install compliance monitoring well network	Within 2 months of the effective date of Consent Decree	☑	April 2018-August 2019 (1)
C.5	Complete construction procurement	Within 2 months of the effective date of Consent Decree	☑	April 2018 (1)
C.6	ERH soil performance sampling	Within 6 to 8 months of the effective date of Consent Decree	☑	May 2019 (1)
C.7	Contingent soil excavation in ERH treatment area	Within 6 to 9 months of the effective date of Consent Decree	☑	June–Sept 2019
C.8	Decommission ERH and SVE system	Within 4 to 6 weeks of ERH system final shutdown	☑	SVE operation Mar-Aug 2019
C.9	Cleanup Action Report and As-Built Drawings and Report; Draft Institutional Control (IC) Plan; Draft Environmental Covenant(s); and an updated Title Report	Within 60 days of decommission of ERH and SVE systems (C.8)	☑	October 2019 (1,3)
D. Post Construction Work				
D.1	Final IC Plan and Final Environmental Covenant(s)	Within 30 days of receipt of Ecology comments on the Draft IC Plan and Draft Environmental Covenant(s)	☑	5/8/2020 (1)
D.2	Record Final Environmental Covenant(s) with King County auditor	Within 5 days after Ecology's approval of the Final IC Plan or Ecology's signature as guarantee of the Final Environmental Covenant(s), whichever occurs last.	☑	5/13/2020
D.3	Indoor Air Sampling of all occupied buildings on the site	May-July 2019, 2020, 2021	☑	Nov 2024, July 2025

Table 1
Consent Decree Schedule

Deliverables		Due Date	Completed	Date Completed
D. Post Construction Work (cont.)				
D.4	Performance Groundwater Monitoring, Quarterly performance monitoring, biannual performance monitoring	June 2018 to June 2020, June 2018 to June 2019, June 2019 to June 2020, respectively. Conducted by Kane Environmental. Currently ongoing biannual monitoring, twice a year.		Ongoing [(4)]
D.5	Decommission Bioremediation/Groundwater Recirculation system and monitoring wells	2020 to 2022 (if operation of bioremediation system is extended)		
D.6	Soil vapor sampling	2020	☑	Nov 2024, July 2025
D.7	Groundwater confirmation monitoring Quarterly compliance monitoring	2020–2024 June 2020 to June 2022		Ongoing [(4)]
D.8	As Built drawings and Report of vapor intrusion mitigation measurements (vapor barrier and passive venting systems), and other engineering and institutional controls (if any).	Within 30 days of the City's receipt from the developer	☑	July 16, 2024
D.9	Five Year compliance monitoring and periodic review Reports	To follow groundwater compliance monitoring (D.7). Groundwater monitoring required once every five years for the duration of the institutional controls on groundwater (if present) under the environmental covenant.		

Notes:

1 Date is assumed.

2 Exhibit D specifies Draft Pre-Remedial Design (PRDI) as the design deliverable. Kane Environmental submitted a Remedial Investigation/Feasibility Study in place of a PRDI.

3 Documentation cannot be located by the City or by Floyd|Snider.

4 CULs have not been reached on-site, therefore biannual performance monitoring is ongoing and compliance monitoring has not yet been triggered.

Table 2
Shallow Aquifer Zone Data

Analyte Class	VOCs												Field Parameters		Conventionals	Dissolved Gases	
Analyte	Tetrachloroethene		Trichloroethene		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene		Vinyl Chloride		Dissolved Oxygen	ORP	Total Organic Carbon	Ethane	Ethene
CAS No.	127-18-4		79-01-6		75-35-4		156-59-2		156-60-5		75-01-4		--	--	TOC	74-84-0	74-85-1
MTCA Method A CUL [1]	5.0	--	5.0	--	--	--	16	--	160	--	0.20	--	--	--	--	--	--
Unit	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	mg/L	mV	mg/L	mg/L	mg/L
Sample Date																	
BSCSS-MW-4R																	
8/2/2021	**2,000**	12	**120**	0.91	10 U	NC	**230**	2.4	10 U	NC	**20**	0.32	0.29	51.2	3.8	0.00022 U	0.00029 U
8/30/2022	**1,300**	7.8	**220**	1.7	8.0 U	NC	**640**	6.6	8.0 U	NC	**40**	0.64	0.03	-8.2	6.1	0.00022 U	0.00029 U
2/20/2023	**490**	3.0	**110**	0.84	10 U	NC	**1,200**	12	10 U	NC	**52**	0.83	0.10	-13.9	3.0	0.00022 U	0.00029 U
9/15/2023	**390**	2.4	**70**	0.53	2.0 U	NC	**380**	3.9	2.0 U	NC	**18**	0.29	0.16	170.9	2.4	0.00022 U	0.0037
4/9/2024	**130**	0.78	**63**	0.48	4.0 U	NC	**590**	6.1	4.0 U	NC	**13**	0.21	0.61	-47.5	3.2	0.00056 U	0.00058 U
9/25/2024	1.9	0.011	1.9	0.014			**150**	1.5	0.88	0.0091	**42**	0.67	0.46	-105	59	0.00056 U	0.022
5/5/2025	**8.3**	0.050	5.0	0.038	2.0 U	NC	**240**	2.5	2.0 U	NC	**81**	1.3	0.48	77.2	22	0.00056 U	0.0041
9/22/2025	**58**	0.35	**69**	0.53	4.4	0.045	**530**	5.5			**100**	1.6	0.13	-120	3.5	0.00056 U	0.053
BSCSS-MW-5R																	
8/3/2021	**1,800**	11	**38**	0.29	10 U	NC	**34**	0.35	10 U	NC	**2.2**	0.035	0.28	158.6	2.1	0.00022 U	0.00029 U
9/1/2022	**2,300**	14	**57**	0.43	10 U	NC	**85**	0.88	10 U	NC	**4.4**	0.070	0.07	11.3	1.4	0.00022 U	0.00029 U
2/20/2023	**1,700**	10	**50**	0.38	10 U	NC	**140**	1.4	10 U	NC	**2.3**	0.037	0.17	116.4	1.2	0.00022 U	0.00029 U
9/20/2023	**2,000**	12	**48**	0.37	0.24	0.0025	**54**	0.56	0.57	0.0059	**0.94**	0.015	0.03	181.8	1.1	0.00022 U	0.00029 U
4/9/2024	**810**	4.9	**23**	0.18	4.0 U	NC	**23**	0.24	4.0 U	NC	**0.59**	0.0094	0.47	119.4	1.7	0.00056 U	0.00058 U
9/25/2024	**48**	0.29	4.0	0.030			13	0.13	0.20 U	NC	**0.29**	0.0046	0.34	128.7	2.1	0.00056 U	0.00058 U
5/5/2025	**87**	0.52	**16**	0.12	1.0 U	NC	9.3	0.096	1.0 U	NC	**0.47**	0.0075	0.53	140	2.8	0.00056 U	0.00058 U
9/22/2025	**1,100**	6.6	**35**	0.27	0.40 U	NC	**19**	0.20			**1.0**	0.016	0.31	-17.3	1.4	0.00056 U	0.00058 U
BSCSS-MW-6																	
12/21/2018	**2,700**	16	**1,000**	7.6	1.0 U	NC	**2,600**	27	40	0.41	**26**	0.42	0.23	-65.4	14	0.16 U	0.15 U
2/22/2019	**1,800**	11	**570**	4.3	10 U	NC	**1,000**	10	14	0.14	**14**	0.22	0.15	-52	13	0.016 U	0.015 U
5/22/2019	**3,800**	23	**1,800**	14	20 U	NC	**750**	7.7	20 U	NC	*20 U*	NC	0.04	-70.8	20	0.0012	0.00050 U
7/25/2019	**3,600**	22	**1,100**	8.4	20 U	NC	**490**	5.1	20 U	NC	**7.4**	0.12	0.04	-108.1	22	0.00050 U	0.019
10/21/2019	**74**	0.45	**38**	0.29	10 U	NC	**1,200**	12	10 U	NC	**3.2**	0.051	0.04	-74.6	19	0.00050 U	0.00094
1/22/2020	**9.8**	0.059	**5.2**	0.040	0.38	0.0039	**170**	1.8	0.91	0.0094	**74**	1.2		-77.8	8.4	0.00022 U	0.028
4/17/2020	**23**	0.14	**7.4**	0.056	1.4	0.014	**38**	0.39	0.47	0.0048	**50**	0.80	0.12	-7.4	10	0.00022 U	0.015
7/20/2020	0.97	0.0058	1.1	0.0084	0.44	0.0045	**47**	0.48	0.43	0.0044	**58**	0.93	0.25	-60.4	49	0.00022 U	0.071
10/19/2020	2.3	0.014	0.61	0.0046	0.20 U	NC	3.8	0.039	0.20 U	NC	**8.2**	0.13	0.11	-51	63	0.00022 U	0.026
2/23/2021	0.20 U	NC	0.20 U	NC	0.20 U	NC	10	0.10	0.20 U	NC	**14**	0.22		-88.5	14	0.00022 U	0.016
6/15/2021	0.20 U	NC	0.20 U	NC	0.20 U	NC	1.9	0.020	0.20 U	NC	**8.0**	0.13	0.09	-125.1	10	0.00022 U	0.0048
9/12/2022	**17**	0.10	**12**	0.091	0.49	0.0051	11	0.11	0.20 U	NC	**0.35**	0.0056	0.12	2.9	8.0	0.0023	0.00029 U
2/20/2023	4.0	0.024	4.8	0.037	0.42	0.0043	7.9	0.081	0.20 U	NC	**3.1**	0.050	0.20	-124.2	14	0.00022 U	0.00029 U
9/14/2023	**7.0**	0.042	**7.0**	0.053	0.42	0.0043	8.3	0.086	0.20 U	NC	**8.1**	0.13	0.23	-43.4	14	0.00022 U	0.0019
4/9/2024	2.1	0.013	4.0	0.030	0.35	0.0036	5.5	0.057	0.20 U	NC	**9.4**	0.15	-0.01	-134.9	13	0.00056 U	0.0023
9/25/2024	0.20 U	NC	0.20 U	NC			0.86	0.0089	0.20 U	NC	**7.0**	0.11	0.10	-126.7	9.4	0.00056 U	0.0028
5/7/2025	0.20 U	NC	0.49	0.0037	0.20 U	NC	1.2	0.012	0.20 U	NC	**3.8**	0.061	0.65	21.4	9.4	0.00056 U	0.00058 U
9/24/2025	0.20 U	NC	0.49	0.0037	0.20 U	NC	2.0	0.021			**3.1**	0.050	0.13	-130	9.4	0.00056 U	0.00058 U
BSCSS-MW-7																	
5/24/2019	**1,000**	6.0	**84**	0.64	10 U	NC	**240**	2.5	10 U	NC	*10 U*	NC	0.16	-9.2	2.3	0.0030 U	0.0030 U
6/18/2021	**190**	1.1	**35**	0.27	2.0 U	NC	**140**	1.4	2.0 U	NC	**17**	0.27	0.05	-132.2	2.5	0.00022 U	0.00029 U
9/28/2022	**2,100**	13	**220**	1.7	10 U	NC	**1,100**	11	10 U	NC	**130**	2.1	0.15	16.8	3.1	0.00022 U	0.0032
2/21/2023	**1,300**	7.8	**210**	1.6	10 U	NC	**420**	4.3	10 U	NC	**2.6**	0.042	0.23	-7.1	3.2	0.00022 U	0.00029 U
9/15/2023	**5,100**	31	**300**	2.3	20 U	NC	**780**	8.0	20 U	NC	**2.7**	0.043	0.24	130.5	12	0.00022 U	0.00029 U
4/9/2024	**1,600**	9.6	**230**	1.8	10 U	NC	**430**	4.4	10 U	NC	**1.9**	0.030	0.45	-6.8	2.9	0.00056 U	0.00058 U
9/25/2024	2.2	0.013	2.8	0.021			**130**	1.3	0.80 U	NC	**18**	0.29	0.41	-120	28	0.00056 U	0.0017
5/7/2025	**10**	0.060	**5.1**	0.039	0.40 U	NC	**79**	0.81	0.40 U	NC	**13**	0.21	0.65	90.2	8.3	0.00056 U	0.0017
9/24/2025	2.0 U	NC	2.0 U	NC	2.0 U	NC	**400**	4.1			**170**	2.7	0.12	-140	13	0.00056 U	0.0097
9/24/2025	**5.9**	0.036	**6.3**	0.048	4.0 U	NC	**420**	4.3			**120**	1.9			12	0.00056 U	0.012

Table 2
Shallow Aquifer Zone Data

Analyte Class	VOCs												Field Parameters		Conventionals	Dissolved Gases	
Analyte	Tetrachloroethene		Trichloroethene		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene		Vinyl Chloride		Dissolved Oxygen	ORP	Total Organic Carbon	Ethane	Ethene
CAS No.	127-18-4		79-01-6		75-35-4		156-59-2		156-60-5		75-01-4		--	--	TOC	74-84-0	74-85-1
MTCA Method A CUL [1]	5.0	--	5.0	--	--	--	16	--	160	--	0.20	--	--	--	--	--	--
Unit	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	mg/L	mV	mg/L	mg/L	mg/L
Sample Date																	
BSCSS-MW-21R																	
8/3/2021	**7,000**	42	**260**	2.0	10 U	NC	**150**	1.5	10 U	NC	*1.0 U*	NC	1.54	136.7	2.0	0.00022 U	0.00029 U
8/30/2022	**240**	1.4	**15**	0.11	1.0 U	NC	**21**	0.22	1.0 U	NC	0.13	0.0021	0.48	8	3.2	0.00022 U	0.00029 U
2/3/2023	**16**	0.096	1.7	0.013	0.20 U	NC	4.2	0.043	0.20 U	NC	**0.41**	0.0066	0.08	60.6	2.9	0.00022 U	0.00029 U
9/19/2023	**2,500**	15	**120**	0.91	20 U	NC	**150**	1.5	20 U	NC	**1.9**	0.030	0.15	64.1	1.7	0.00022 U	0.00029 U
4/9/2024	**410**	2.5	**26**	0.20	2.0 U	NC	**20**	0.21	2.0 U	NC	**2.2**	0.035	0.46	66	2.5	0.00056 U	0.00058 U
9/24/2024	**7.4**	0.045	1.3	0.0099			4.1	0.042	0.20 U	NC	**0.21**	0.0034	0.44	-22.3	8.7	0.00056 U	0.00058 U
5/5/2025	3.6	0.022	1.1	0.0084	0.20 U	NC	2.4	0.025	0.20 U	NC	**0.23**	0.0037	1.81	230	6.0	0.00056 U	0.00058 U
9/22/2025	**1,200**	7.2	**170**	1.3	0.34	0.0035	**200**	2.1			**14**	0.22	0.12	-200	2.3	0.00056 U	0.015
BSCSS-MW-23																	
12/5/2018	1.1	0.0066	0.50 U	NC	1.0 U	NC	1.0 U	NC	1.0 U	NC	0.20 U	NC	1.24	49.8	2.4	0.016 U	0.015 U
2/12/2019	2.1	0.013	0.50 U	NC	1.0 U	NC	1.0 U	NC	1.0 U	NC	0.20 U	NC	5.16	128.7	1.2	0.016 U	0.015 U
6/4/2019	0.94	0.0057	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.87	19.1	1.6	0.0075 U	0.0075 U
6/17/2021	0.20 U	NC	0.57	0.0043	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	0.15	-109	3.4	0.00022 U	0.00029 U
10/14/2022	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	1.81	190.2	3.0	0.00022 U	0.00029 U
2/6/2023	0.35	0.0021	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	2.13	126.7	1.9	0.00022 U	0.00029 U
9/27/2023	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC		182.8	1.5	0.00022 U	0.00029 U
4/11/2024	0.24	0.0014	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	6.16	215.9	2.0	0.00056 U	0.00058 U
9/23/2024	0.20 U	NC	0.20 U	NC			0.20 U	NC	0.20 U	NC	0.20 U	NC	4.31	174.3	1.7	0.00056 U	0.00058 U
5/6/2025	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	3.78	140	1.4	0.00056 U	0.00058 U
9/23/2025	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC			0.20 U	NC	2.97	210	1.2	0.00056 U	0.00058 U
BSCSS-MW-27																	
12/12/2018	**170**	1.0	0.71	0.0054	1.0 U	NC	1.0 U	NC	1.0 U	NC	0.20 U	NC	7.04	48.3	0.79	0.016 U	0.015 U
5/24/2019	**110**	0.66	1.0 U	NC	1.0 U	NC	1.0 U	NC	1.0 U	NC	*1.0 U*	NC	8.54	41.5	1.0 U	0.00050 U	0.00050 U
7/16/2019	**91**	0.55	0.40 U	NC	0.40 U	NC	0.40 U	NC	0.40 U	NC	0.040 U	NC	6.39	155.7	1.0 U	0.00050 U	0.00050 U
10/18/2019	**130**	0.78	1.0 U	NC	1.0 U	NC	1.0 U	NC	1.0 U	NC	0.10 U	NC	7.17	243.9	8.7	0.00050 U	0.00050 U
1/29/2020	**90**	0.54	1.2	0.0091	0.40 U	NC	1.5	0.015	0.40 U	NC	0.040 U	NC	6.26	166.3	1.3	0.00022 U	0.00029 U
4/16/2020	**75**	0.45	0.51	0.0039	0.40 U	NC	0.89	0.0092	0.40 U	NC	0.040 U	NC	3.53	59.6	1.0 U	0.00022 U	0.00029 U
7/27/2020	**60**	0.36	0.40 U	NC	0.40 U	NC	0.40 U	NC	0.40 U	NC	0.040 U	NC	3.75	105.3	1.2	0.00022 U	0.00029 U
10/19/2020	**69**	0.42	0.40 U	NC	0.40 U	NC	0.40 U	NC	0.40 U	NC	0.040 U	NC	3.67	76.3	1.0	0.00022 U	0.00029 U
2/26/2021	**54**	0.33	0.40 U	NC	0.40 U	NC	0.40 U	NC	0.40 U	NC	0.040 U	NC	0.48	81.8	1.0 U	0.0033 U	0.0043 U
6/17/2021	**39**	0.24	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	1.55	138.2	1.0 U	0.00022 U	0.00029 U
9/22/2022	**35**	0.21	**6.4**	0.049	0.20 U	NC	1.4	0.014	0.20 U	NC	0.020 U	NC	0.59	109.9	3.9	0.00022 U	0.00029 U
2/21/2023	**25**	0.15	**6.7**	0.051	0.20 U	NC	8.1	0.084	0.20 U	NC	0.020 U	NC	0.28	108.3	1.5	0.00022 U	0.00029 U
9/7/2023	**19**	0.11	**7.6**	0.058	0.20 U	NC	10	0.10	0.20 U	NC	0.20 U	NC	0.32	142.6	1.6	0.00022 U	0.00029 U
4/11/2024	**29**	0.17	1.6	0.012	0.20 U	NC	2.6	0.027	0.20 U	NC	0.20 U	NC	0.22	191.6	1.3	0.00056 U	0.00058 U
9/25/2024	**33**	0.20	2.9	0.022			2.1	0.022	0.20 U	NC	0.20 U	NC	0.69	116.6	1.2	0.00056 U	0.00058 U
5/6/2025	**30**	0.18	0.98	0.0075	0.20 U	NC	1.2	0.012	0.20 U	NC	0.20 U	NC	1.95	230	1.1	0.00056 U	0.00058 U
9/23/2025	**24**	0.14	**8.4**	0.064	0.20 U	NC	6.8	0.070			0.20 U	NC	0.82	80.2	1.4	0.00056 U	0.00058 U
BSCSS-MW-40																	
12/17/2018	**210**	1.3	**46**	0.35	1.0 U	NC	**57**	0.59	1.0 U	NC	0.20 U	NC	2.39	52.6	1.1	0.016 U	0.015 U
3/13/2019	**210**	1.3	**150**	1.1	1.5	0.015	**750**	7.7	1.3	0.013	0.20 U	NC	1.33	82.2	2.0	0.016 U	0.015 U
5/29/2019	**560**	3.4	**600**	4.6	20 U	NC	**4,300**	44	20 U	NC	*20 U*	NC	0.23	3.8	11	0.011	0.025 U
7/23/2019	**530**	3.2	**380**	2.9	20 U	NC	**4,700**	48	20 U	NC	**11**	0.18	0.05	-112.4	12	0.0082	0.00050 U
10/25/2019	**65**	0.39	**84**	0.64	10 U	NC	**1,500**	15	10 U	NC	**1.6**	0.026	0.06	35.6	13	0.00050 U	0.0016
1/28/2020	**150**	0.90	**130**	0.99	10 U	NC	**2,300**	24	10 U	NC	**1,600**	26	0.01	-60.6	10	0.00022 U	0.12

Table 2
Shallow Aquifer Zone Data

Analyte Class	VOCs												Field Parameters		Conventionals	Dissolved Gases	
Analyte	Tetrachloroethene		Trichloroethene		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene		Vinyl Chloride		Dissolved Oxygen	ORP	Total Organic Carbon	Ethane	Ethene
CAS No.	127-18-4		79-01-6		75-35-4		156-59-2		156-60-5		75-01-4		--	--	TOC	74-84-0	74-85-1
MTCA Method A CUL [1]	5.0	--	5.0	--	--	--	16	--	160	--	0.20	--	--	--	--	--	--
Unit	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	mg/L	mV	mg/L	mg/L	mg/L
Sample Date																	
BSCSS-MW-40 (cont.)																	
4/27/2020	*10 U*	NC	*10 U*	NC	10 U	NC	**150**	1.5	10 U	NC	**930**	15	0.09	26	9.9	0.00022 U	0.13
7/29/2020	0.20 U	NC	0.20 U	NC			0.52	0.0054			**26**	0.42	0.14	-47.7	69	0.00022 U	0.48
10/29/2020	**7.7**	0.046	3.8	0.029	2.0 U	NC	**93**	0.96	2.0 U	NC	**490**	7.8	0.17	-43.6	7.4	0.016	0.36
3/5/2021	**130**	0.78	**69**	0.53	3.5	0.036	**210**	2.2	2.0 U	NC	**440**	7.0			4.9	0.024	0.25
3/12/2021	**160**	0.96	**93**	0.71	4.8	0.050	**280**	2.9	2.1	0.022	**320**	5.1	0.88	-35.9	4.9	0.00022 U	0.14
6/21/2021	**19**	0.11	**64**	0.49	3.9	0.040	**110**	1.1	1.2	0.012	**190**	3.0	0.10	-130	4.8	0.0042	0.050
9/29/2022	**11**	0.066	**510**	3.9	120	1.2	**240**	2.5	10 U	NC	**150**	2.4	0.18	-48.1	5.4	0.0012	0.063
2/6/2023	**6.3**	0.038	**340**	2.6	26	0.27	**160**	1.7	3.4	0.035	**73**	1.2	1.12	37.5	2.1	0.00038	0.038
9/26/2023	4.0 U	NC	**43**	0.33	23	0.24	**470**	4.8	4.0 U	NC	**140**	2.2	0.21	99.3	5.5	0.0066	0.15
4/11/2024	**1,900**	11	**3,700**	28	88	0.91	**450**	4.6	20 U	NC	**130**	2.1	0.96	-57.6	7.2	0.00056 U	0.049
9/26/2024	**890**	5.4	**1,600**	12			**330**	3.4	10 U	NC	**97**	1.6	0.40	-91.5	6.0	0.0026	0.096
5/6/2025	**3,300**	20	**3,400**	26	89	0.92	**560**	5.8	20 U	NC	**190**	3.0	1.56	210	6.6	0.00056 U	0.036
9/23/2025	**630**	3.8	**1,100**	8.4	66	0.68	**510**	5.3			**230**	3.7	0.18	-140	6.5	0.0040	0.14
9/23/2025	**490**	3.0	**830**	6.3	49	0.51	**360**	3.7			**190**	3.0			6.5	0.0058	0.15
BSCSS-MW-43R																	
6/23/2021	**15**	0.090	2.4	0.018	0.20 U	NC	**22**	0.23	0.21	0.0022	**4.9**	0.078	0.13	-143.6	26	0.00022 U	0.0045
9/29/2022	4.3	0.026	2.2	0.017	0.20 U	NC	9.0	0.093	0.20 U	NC	**0.59**	0.0094	0.22	7.9	3.2	0.00022 U	0.00029 U
2/8/2023	**8.7**	0.052	2.5	0.019	0.20 U	NC	6.4	0.066	0.20 U	NC	**0.73**	0.012	0.69	31.4	4.3	0.00022 U	0.00029 U
9/22/2023	2.6	0.016	2.6	0.020	0.20 U	NC	6.9	0.071	0.20 U	NC	**0.24**	0.0038	0.04	73.7	2.4	0.00022 U	0.00029 U
4/10/2024	**6.1**	0.037	3.9	0.030	0.20 U	NC	14	0.14	0.20 U	NC	**1.7**	0.027	0.45	4	3.9	0.00056 U	0.00058 U
9/26/2024	4.2	0.025	2.1	0.016			12	0.12	0.20 U	NC	**0.81**	0.013	0.30	26.7	3.1	0.00056 U	0.00058 U
5/6/2025	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.42	0.0043	0.20 U	NC	**0.53**	0.0085	1.55	180	3.0	0.00056 U	0.00058 U
9/23/2025	4.3	0.026	2.4	0.018	0.20 U	NC	2.5	0.026			0.20 U	NC	0.59	2.7	3.0	0.00056 U	0.00058 U
BSCSS-MW-45R																	
6/23/2021	**15**	0.090	3.5	0.027	0.20 U	NC	4.0	0.041	0.20 U	NC	**0.92**	0.015	0.02	-95.3	3.3	0.00022 U	0.00058
9/1/2022	**11**	0.066	2.7	0.021	0.20 U	NC	0.59	0.0061	0.20 U	NC	0.020 U	NC	3.17	62.1	18	0.00022 U	0.00029 U
2/2/2023	3.0	0.018	0.96	0.0073	0.20 U	NC	0.69	0.0071	0.20 U	NC	0.020 U	NC	0.39	112.4	8.9	0.00022 U	0.00029 U
9/19/2023	2.1	0.013	4.2	0.032	0.20 U	NC	2.0	0.021	0.20 U	NC	0.20 U	NC	0.21	176.7	5.9	0.00022 U	0.00029 U
4/9/2024	0.20 U	NC	0.20 U	NC	0.20 U	NC	3.8	0.039	0.20 U	NC	0.20 U	NC	0.51	-75.8	310	0.00056 U	0.00058 U
9/24/2024	0.20 U	NC	0.20 U	NC			3.0	0.031	0.20 U	NC	**9.4**	0.15	0.09	-92.1	14	0.00056 U	0.00058 U
5/5/2025	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.43	0.0044	0.20 U	NC	**1.9**	0.030	0.59	88.8	12	0.00056 U	0.00058 U
9/22/2025	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC			**0.49**	0.0078	0.12	-210	11	0.00056 U	0.00058 U
BSCSS-HZ-MW-1																	
12/19/2018	**7.8**	0.047	0.50 U	NC	1.0 U	NC	1.0 U	NC	1.0 U	NC	0.20 U	NC	5.00	45	1.2	0.016 U	0.015 U
5/30/2019	**11**	0.066	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	7.81	15.2	1.1	0.00050 U	0.00050 U
7/29/2019	**14**	0.084	0.20 U	NC	0.20 U	NC	1.1	0.011	0.20 U	NC	0.020 U	NC	4.08	-70.1	1.0	0.00050 U	0.00050 U
10/21/2019	**15**	0.090	0.20 U	NC	0.20 U	NC	0.61	0.0063	0.20 U	NC	0.020 U	NC	4.58	200	1.1	0.00050 U	0.00050 U
1/24/2020	**5.9**	0.036	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	24	86.3	1.2	0.00022 U	0.00029 U
4/14/2020	**33**	0.20	1.1	0.0084	0.20 U	NC	1.2	0.012	0.20 U	NC	0.15	0.0024	1.14	-3.8	1.6	0.00022 U	0.00029 U
7/17/2020	**40**	0.24	2.6	0.020	0.20 U	NC	4.5	0.046	0.20 U	NC	**2.1**	0.034	0.48	71.9	1.7	0.00022 U	0.00029 U
10/27/2020	**8.6**	0.052	0.53	0.0040	0.20 U	NC	3.2	0.033	0.20 U	NC	**0.89**	0.014		74.3	1.7	0.00022 U	0.00029 U
3/4/2021	**11**	0.066	3.6	0.027	1.0 U	NC	**120**	1.2	1.0 U	NC	**3.1**	0.050	1.14	-18.6	2.7	0.00022 U	0.0012
6/15/2021	**42**	0.25	**5.3**	0.040	0.40 U	NC	13	0.13	0.40 U	NC	**0.56**	0.0090	0.86	52.3	2.7	0.00022 U	0.00085

Table 2
Shallow Aquifer Zone Data

Analyte Class	VOCs												Field Parameters		Conventionals	Dissolved Gases	
Analyte	Tetrachloroethene		Trichloroethene		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene		Vinyl Chloride		Dissolved Oxygen	ORP	Total Organic Carbon	Ethane	Ethene
CAS No.	127-18-4		79-01-6		75-35-4		156-59-2		156-60-5		75-01-4		--	--	TOC	74-84-0	74-85-1
MTCA Method A CUL [1]	5.0	--	5.0	--	--	--	16	--	160	--	0.20	--	--	--	--	--	--
Unit	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	mg/L	mV	mg/L	mg/L	mg/L
Sample Date																	
BSCSS-HZ-MW-1 (cont.)																	
9/12/2022	2.4	0.014	3.2	0.024	0.40 U	NC	**31**	0.32	0.40 U	NC	**2.8**	0.045	8.83	-32	2.2	0.00022 U	0.00029 U
2/15/2023	3.7	0.022	3.3	0.025	0.40 U	NC	**67**	0.69	0.52	0.0054	**19**	0.30	0.19	-6.9	3.3	0.00022 U	0.00029 U
9/20/2023	2.7	0.016	2.2	0.017	0.27	0.0028	**110**	1.1	0.68	0.0070	**17**	0.27	0.27	129.2	3.6	0.00022 U	0.00029 U
4/10/2024	0.76	0.0046	1.0	0.0076	0.20 U	NC	**44**	0.45	0.63	0.0065	**21**	0.34	0.39	-47.1	2.7	0.00056 U	0.0013
9/24/2024	0.43	0.0026	0.52	0.0040			**24**	0.25	0.49	0.0051	**14**	0.22	0.43	-69.6	5.9	0.00056 U	0.00089
5/6/2025	0.32	0.0019	0.47	0.0036	0.20 U	NC	8.7	0.090	0.34	0.0035	**8.8**	0.14	1.89	220	5.7	0.00056 U	0.00058 U
9/24/2025	0.20 U	NC	0.20 U	NC	0.20 U	NC	6.3	0.065			**6.5**	0.10	1.43	-60.5	4.3	0.00056 U	0.00058 U
BSCSS-HZ-MW-14S																	
12/13/2018	**240**	1.4	**7.3**	0.056	1.0 U	NC	6.1	0.063	1.0 U	NC	0.20 U	NC	0.17	20.4	1.9	0.016 U	0.015 U
5/21/2019	**240**	1.4	**7.0**	0.053	2.0 U	NC	3.2	0.033	2.0 U	NC	*2.0 U*	NC	0.11	-26.3	1.7	0.0050 U	0.0050 U
7/25/2019	**160**	0.96	**6.8**	0.052	1.0 U	NC	7.0	0.072	1.0 U	NC	0.10 U	NC	0.23	-57.4	1.8	0.00050 U	0.00050 U
10/16/2019	**78**	0.47	**5.9**	0.045	0.40 U	NC	3.6	0.037	0.40 U	NC	0.040 U	NC	0.05	103.9	1.9	0.00050 U	0.00050 U
1/22/2020	**23**	0.14	4.2	0.032	0.20 U	NC	15	0.15	0.20 U	NC	0.069	0.0011	2.22	115	2.8	0.00022 U	0.00029 U
4/15/2020	**55**	0.33	3.5	0.027	0.40 U	NC	4.3	0.044	0.40 U	NC	**3.0**	0.048	0.24	11.5	2.1	0.00022 U	0.019
7/21/2020	**160**	0.96	**15**	0.11	1.0 U	NC	**88**	0.91	1.0 U	NC	**26**	0.42	0.25	79.6	2.0	0.00022 U	0.015
10/23/2020	**270**	1.6	**37**	0.28	2.0 U	NC	**120**	1.2	2.0 U	NC	**34**	0.54	0.17	114	2.0	0.00022 U	0.015
3/3/2021	**210**	1.3	**22**	0.17	2.0 U	NC	**28**	0.29	2.0 U	NC	**15**	0.24	0.57	96.5	2.5	0.00022 U	0.016
6/15/2021	**550**	3.3	**120**	0.91	4.0 U	NC	**260**	2.7	4.0 U	NC	**17**	0.27	0.44	-4.9	2.7	0.00022 U	0.0043
9/6/2022	**250**	1.5	**100**	0.76	4.0 U	NC	**60**	0.62	4.0 U	NC	**0.42**	0.0067	0.04	5.9	3.0	0.00022 U	0.00029 U
2/21/2023	**1,000**	6.0	**170**	1.3	10 U	NC	**220**	2.3	10 U	NC	**23**	0.37	0.42	66.1	1.9	0.00022 U	0.00029 U
9/21/2023	**1,200**	7.2	**250**	1.9	10 U	NC	**270**	2.8	10 U	NC	**34**	0.54	0.09	208.6	2.1	0.00022 U	0.00029 U
4/9/2024	**710**	4.3	**180**	1.4	8.0 U	NC	**150**	1.5	8.0 U	NC	**15**	0.24	0.52	30	2.8	0.00056 U	0.00058 U
9/24/2024	**170**	1.0	**40**	0.30			**23**	0.24	1.0 U	NC	*1.0 U*	NC	0.32	44.4	2.3	0.00056 U	0.00058 U
5/6/2025	**1,400**	8.4	**190**	1.4	8.0 U	NC	**210**	2.2	8.0 U	NC	**3.8**	0.061	0.68	190	2.0	0.00056 U	0.00058 U
9/23/2025	**1,600**	9.6	**170**	1.3	8.0 U	NC	**270**	2.8			*8.0 U*	NC	0.44	-18.2	1.9	0.00056 U	0.00058 U
BSCSS-HZ-MW-15S																	
12/27/2018	**12**	0.072	0.50 U	NC	1.0 U	NC	1.0 U	NC	1.0 U	NC	0.20 U	NC	0.68	38.5	1.4	0.016 U	0.015 U
6/4/2019	**8.9**	0.054	0.34	0.0026	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.33	-10.7	1.1	0.0010 U	0.0010 U
7/23/2019	**11**	0.066	0.41	0.0031	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	0.38	-69.1	1.0	0.00050 U	0.00050 U
10/17/2019	**9.8**	0.059	0.39	0.0030	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	0.23	189	1.2	0.00050 U	0.00050 U
1/22/2020	4.2	0.025	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	6.00	129.5	1.4	0.00022 U	0.00029 U
4/15/2020	3.6	0.022	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	1.43	17.6	1.3	0.00022 U	0.00029 U
7/22/2020	4.7	0.028	0.20	0.0015	0.20 U	NC	0.35	0.0036	0.20 U	NC	0.020 U	NC	1.19	66.2	1.2	0.00022 U	0.00029 U
10/23/2020	4.6	0.028	0.27	0.0021	0.20 U	NC	11	0.11	0.20 U	NC	**0.43**	0.0069	0.35	112.3	1.3	0.0022 U	0.0029 U
3/3/2021	3.8	0.023	0.43	0.0033	0.20 U	NC	10	0.10	0.20 U	NC	**1.2**	0.019		111.3	1.2	0.00022 U	0.00039
6/22/2021	**5.1**	0.031	0.62	0.0047	0.20 U	NC	**19**	0.20	0.20 U	NC	**1.4**	0.022	0.38	-5.8	1.6	0.00022 U	0.00029 U
9/6/2022	1.6	0.0096	0.89	0.0068	0.40 U	NC	**71**	0.73	1.2	0.012	**4.8**	0.077	0.16	-9.7	36	0.00022 U	0.00029 U
2/15/2023	1.8	0.011	0.84	0.0064	0.20 U	NC	**27**	0.28	0.63	0.0065	**2.9**	0.046	0.30	44.6	3.3	0.00022 U	0.00029 U
9/20/2023	1.6	0.0096	0.69	0.0053	0.20 U	NC	9.9	0.10	0.28	0.0029	**0.68**	0.011	0.04	169.9	2.5	0.00022 U	0.00029 U
4/9/2024	1.2	0.0072	0.72	0.0055	0.20 U	NC	5.3	0.055	0.20 U	NC	**0.32**	0.0051	0.34	90.5	3.5	0.00056 U	0.00058 U
9/23/2024	**9.8**	0.059	4.0	0.030			9.0	0.093	0.20 U	NC	**0.29**	0.0046	0.53	67.2	3.0	0.00056 U	0.00058 U
5/5/2025	4.8	0.029	**6.1**	0.046	0.20 U	NC	15	0.15	0.20 U	NC	**0.38**	0.0061	3.22	5.1	4.5	0.00056 U	0.00058 U
9/22/2025	0.68	0.0041	0.58	0.0044	0.20 U	NC	2.5	0.026			**0.51**	0.0082	0.15	-220	7.5	0.00056 U	0.00058 U

Table 2
Shallow Aquifer Zone Data

Analyte Class	VOCs												Field Parameters		Conventionals	Dissolved Gases	
Analyte	Tetrachloroethene		Trichloroethene		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene		Vinyl Chloride		Dissolved Oxygen	ORP	Total Organic Carbon	Ethane	Ethene
CAS No.	127-18-4		79-01-6		75-35-4		156-59-2		156-60-5		75-01-4		--	--	TOC	74-84-0	74-85-1
MTCA Method A CUL [1]	5.0	--	5.0	--	--	--	16	--	160	--	0.20	--	--	--	--	--	--
Unit	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	mg/L	mV	mg/L	mg/L	mg/L
Sample Date																	
BSCSS-HZ-MW-31																	
12/18/2018	1.0 U	NC	0.50 U	NC	1.0 U	NC	1.0 U	NC	1.0 U	NC	0.20 U	NC	0.07	2	5.0	0.016 U	0.015 U
5/29/2019	0.78	0.0047	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.23	19.8	4.6	0.025 U	0.025 U
7/23/2019	2.5	0.015	0.20 U	NC	0.20 U	NC	0.69	0.0071	0.20 U	NC	0.048	0.00077	0.21	-64	4.4	0.00050 U	0.00050 U
10/25/2019	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.048	0.00077	0.10	23.1	4.8	0.00050 U	0.00050 U
1/28/2020	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.054	0.00086	0.24	69.1	4.8	0.00022 U	0.00029 U
4/27/2020	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.049	0.00078	0.25	33.6	4.7	0.00022 U	0.00029 U
7/29/2020	0.20 U	NC	0.20 U	NC			0.20 U	NC			0.049	0.00078	0.20	-4.3	4.9	0.00022 U	0.00029 U
10/29/2020	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.060	0.00096	0.17	-18.3	4.6	0.00022 U	0.00029 U
3/5/2021	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.021	0.00034	3.10	-24.8	6.0	0.00022 U	0.00037
6/21/2021	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.046	0.00074	0.13	-94.7	5.6	0.00022 U	0.00029 U
9/29/2022	0.41	0.0025	0.47	0.0036	0.20 U	NC	2.0	0.021	0.20 U	NC	**20**	0.32	0.17	-24.53	6.2	0.00022 U	0.027
2/6/2023	0.80 U	NC	0.80 U	NC	0.80 U	NC	16	0.17	0.80 U	NC	**94**	1.5	0.10	-47.9	6.0	0.00022 U	0.024
9/26/2023	2.0 U	NC	2.0 U	NC	2.0 U	NC	**22**	0.23	2.0 U	NC	**110**	1.8	0.12	111.2	4.8	0.00022 U	0.011
9/26/2024	2.0 U	NC	0.40 U	NC			**45**	0.46	0.40 U	NC	**62**	0.99	0.33	-78.6	6.1	0.00056 U	0.0028
5/6/2025	0.20 U	NC	0.20 U	NC	0.20 U	NC	**45**	0.46	0.20 U	NC	**58**	0.93	0.6	74.2	6.1	0.00056 U	0.00058 U
9/23/2025	0.40 U	NC	0.40 U	NC	0.40 U	NC	**40**	0.41			**46**	0.74	0.15	-100	6.7	0.00056 U	0.00058 U
BSCSS-HZ-MW-34																	
12/7/2018	4.4	0.027	**13**	0.099	1.0 U	NC	**33**	0.34	1.0 U	NC	0.20 U	NC	0.10	0.9	4.0	0.016 U	0.015 U
5/31/2019	0.83	0.0050	3.3	0.025	0.20 U	NC	**24**	0.25	0.29	0.0030	**0.26**	0.0042	0.16	-17.2	42	0.050 U	0.050 U
7/17/2019	1.4	0.0084	3.3	0.025	0.20 U	NC	**20**	0.21	0.27	0.0028	**0.28**	0.0045	0.08	-158.7	24	0.00050 U	0.00050 U
10/23/2019	1.0 U	NC	1.0 U	NC	1.0 U	NC	**110**	1.1	1.0 U	NC	**0.97**	0.016	0.07	24.7	5.8	0.00050 U	0.00050 U
1/27/2020	1.0 U	NC	2.6	0.020	1.0 U	NC	**120**	1.2	1.0 U	NC	**31**	0.50	0.14	48.8	2.3	0.00022 U	0.00029 U
4/14/2020	1.0 U	NC	1.6	0.012	1.0 U	NC	**100**	1.0	1.0 U	NC	**130**	2.1	0.21	-21.8	2.1	0.00022 U	0.0043
7/21/2020	0.20 U	NC	0.20 U	NC	0.20 U	NC	12	0.12	0.32	0.0033	**16**	0.26	0.20	-42.7	4.4	0.00022 U	0.014
10/28/2020	0.20 U	NC	0.24	0.0018	0.20 U	NC	13	0.13	0.29	0.0030	**20**	0.32	0.21	-19.7	1.9	0.00022 U	0.012
3/2/2021	0.20 U	NC	0.24	0.0018	0.20 U	NC	11	0.11	0.21	0.0022	**12**	0.19		-43.5	1.7	0.00022 U	0.0055
6/18/2021	0.34	0.0021	0.88	0.0067	0.20 U	NC	4.2	0.043	0.20 U	NC	**1.2**	0.019	0.05	-135.1	14	0.00022 U	0.00029 U
9/20/2022	0.48	0.0029	1.6	0.012	0.20 U	NC	13	0.13	0.20 U	NC	**5.0**	0.080	0.25	-4.2	1.6	0.00022 U	0.00082
2/7/2023	0.35	0.0021	1.0	0.0076	0.20 U	NC	14	0.14	0.20 U	NC	**4.6**	0.074	0.45	-22.4	1.1	0.00022 U	0.00034
9/8/2023	0.66	0.0040	1.8	0.014	0.20 U	NC	8.4	0.087	0.20 U	NC	**2.0**	0.032	0.20	75.8	1.2	0.00022 U	0.00029 U
4/10/2024	0.53	0.0032	1.5	0.011	0.20 U	NC	7.2	0.074	0.20 U	NC	**0.92**	0.015	0.40	-13	1.8	0.00056 U	0.00058 U
9/24/2024	0.33	0.0020	1.4	0.011			6.5	0.067	0.20 U	NC	**1.3**	0.021	0.29	46.6	1.4	0.00056 U	0.00058 U
5/7/2025	0.55	0.0033	2.2	0.017	0.20 U	NC	5.1	0.053	0.20 U	NC	**0.36**	0.0058	1.85	240	1.4	0.00056 U	0.00058 U
9/24/2025	0.38	0.0023	1.6	0.012	0.20 U	NC	7.4	0.076			**0.98**	0.016	0.18	-16.7	1.0 U	0.00056 U	0.00058 U
BSCSS-S-MW-1																	
6/6/2019	**8.9**	0.054	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	3.46	5	1.4	0.00050 U	0.00050 U
7/23/2019	**6.5**	0.039	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	3.10	-74.5	1.0 U	0.00050 U	0.00050 U
10/23/2019	**7.3**	0.044	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	3.82	164.3	1.0 U	0.00050 U	0.00050 U
1/21/2020	3.4	0.021	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	4.38	105.9	1.0 U	0.00022 U	0.00029 U
4/23/2020	3.5	0.021	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	4.58	1.3	1.0 U	0.00022 U	0.00029 U
7/28/2020	**5.1**	0.031	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	3.71	87.5	1.1	0.00022 U	0.00029 U
11/2/2020	4.5	0.027	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	3.18	88.9	1.0	0.00022 U	0.00029 U
3/1/2021	1.7	0.010	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	4.59	73.2	1.0 U	0.00022 U	0.00029 U
6/14/2021	1.2	0.0072	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	7.73	60.2	1.0 U	0.00022 U	0.00029 U
9/27/2022	2.9	0.017	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	3.80	204.4	1.2	0.00022 U	0.00029 U

Table 2
Shallow Aquifer Zone Data

Analyte Class	VOCs												Field Parameters		Conventionals	Dissolved Gases	
Analyte	Tetrachloroethene		Trichloroethene		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene		Vinyl Chloride		Dissolved Oxygen	ORP	Total Organic Carbon	Ethane	Ethene
CAS No.	127-18-4		79-01-6		75-35-4		156-59-2		156-60-5		75-01-4		--	--	TOC	74-84-0	74-85-1
MTCA Method A CUL [1]	5.0	--	5.0	--	--	--	16	--	160	--	0.20	--	--	--	--	--	--
Unit	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	mg/L	mV	mg/L	mg/L	mg/L
Sample Date																	
BSCSS-S-MW-1 (cont.)																	
2/16/2023	2.6	0.016	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	3.68	193.5	1.0 U	0.00022 U	0.00029 U
9/7/2023	3.5	0.021	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	1.31	167.3	1.0 U	0.00022 U	0.00029 U
9/25/2024	2.4	0.014	0.20 U	NC			0.20 U	NC	0.20 U	NC	0.20 U	NC	3.23	125	1.5	0.00056 U	0.00058 U
5/6/2025	1.5	0.0090	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	4.05	150	1.4	0.00056 U	0.00058 U
9/23/2025	4.2	0.025	0.20 U	NC	0.20 U	NC	0.20 U	NC			0.20 U	NC	1.47	150	1.1	0.00056 U	0.00058 U
BSCSS-S-MW-2RR																	
8/5/2021	0.20 U	NC	0.20 U	NC	0.20 U	NC	12	0.12	0.21	0.0022	**3.6**	0.058	0.99	-41.3	2.8	0.00022 U	0.00030
9/8/2022	0.20 U	NC	0.25	0.0019	0.20 U	NC	0.37	0.0038	0.20 U	NC	**0.59**	0.0094	0.05	-61.1	3.8	0.00022 U	0.00029 U
2/10/2023	0.20 U	NC	0.39	0.0030	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.084	0.0013	0.06	-58.2	24	0.00022 U	0.00029 U
9/12/2023	0.20 U	NC	0.35	0.0027	0.20 U	NC	0.20 U	NC	0.20 U	NC	**0.37**	0.0059	0.15	68.6	3.0	0.00022 U	0.00029 U
4/10/2024	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.31	-60.6	1.1	0.00056 U	0.00058 U
9/23/2024	0.20 U	NC	0.56	0.0043			0.32	0.0033	0.20 U	NC	0.20 U	NC	0.43	-97.1	2.3	0.00056 U	0.00058 U
5/7/2025	0.20 U	NC	0.25	0.0019	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.27	-160	9.3	0.00056 U	0.00058 U
9/22/2025	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC			0.20 U	NC	0.43	-260	3.0	0.00056 U	0.00058 U
BSCSS-S-MW-5R																	
8/11/2021	**630**	3.8	4.0 U	NC	4.0 U	NC	4.0 U	NC	4.0 U	NC	*0.40 U*	NC	1.97	109	1.0 U	0.00022 U	0.00029 U
10/3/2022	**450**	2.7	3.9	0.030	0.20 U	NC	5.3	0.055	0.20 U	NC	0.081	0.0013	3.50	108.3	1.0 U	0.00022 U	0.00029 U
2/10/2023	**270**	1.6	**6.8**	0.052	2.0 U	NC	14	0.14	2.0 U	NC	**0.70**	0.011	0.14	113.7	1.2	0.00022 U	0.00029 U
9/12/2023	**510**	3.1	3.9	0.030	2.0 U	NC	3.7	0.038	2.0 U	NC	0.20 U	NC	0.29	346.9	1.0 U	0.00022 U	0.00029 U
4/10/2024	**360**	2.2	**6.6**	0.050	2.0 U	NC	13	0.13	2.0 U	NC	0.20 U	NC	0.50	124	1.0	0.00056 U	0.00058 U
9/23/2024	**350**	2.1	**7.8**	0.059			**17**	0.18	2.0 U	NC	*2.0 U*	NC	0.37	72.8	1.0 U	0.00056 U	0.00058 U
5/5/2025	**420**	2.5	2.8	0.021	2.0 U	NC	3.3	0.034	2.0 U	NC	0.20 U	NC	1.52	230	1.0 U	0.00056 U	0.00058 U
9/22/2025	**750**	4.5	**12**	0.091	2.0 U	NC	9.4	0.097			*2.0 U*	NC	1.43	-60.5	920	0.00056 U	0.0022

Notes:

All blank cells are intentional.
All chemistry results are rounded to two significant figures.
Field parameters are reported as displayed by the sampling equipment.
-- Not available.
Italic Analyte was not detected at a reporting limit greater than the CUL.
RED/BOLD Analyte was detected at a concentration greater than the CUL.
1 CULs are based on MTCA Method A values, except for cis- and trans-1,2-dichloroethene, which use MTCA Method B.

Abbreviations:

CAS Chemical Abstracts Service
CUL Cleanup level
µg/L Micrograms per liter
µmol/L Micromoles per liter
mg/L Milligrams per liter
MTCA Model Toxics Control Act
mV Millivolts
NC Molar concentration not calculated, analyte was not detected
ORP Oxidation–reduction potential
VOC Volatile organic compound

Qualifier:

U Analyte was not detected at the associated reporting limit.

Table 3
Intermediate Aquifer Zone Data

Analyte Class	VOCs												Field Parameters		Conventionals	Dissolved Gases	
Analyte	Tetrachloroethene		Trichloroethene		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene		Vinyl Chloride		Dissolved Oxygen	ORP	Total Organic Carbon	Ethane	Ethene
CAS No.	127-18-4		79-01-6		75-35-4		156-59-2		156-60-5		75-01-4		--	--	TOC	74-84-0	74-85-1
MTCA Method A CUL [1]	5.0	--	5.0	--	--	--	16	--	160	--	0.20	--	--	--	--	--	--
Unit	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	mg/L	mV	mg/L	mg/L	mg/L
Sample Date																	
BSCSS-MW-11																	
12/20/2018	41	0.25	12	0.091	1.0 U	NC	4.9	0.051	1.0 U	NC	0.20 U	NC	0.16	14.3	9.0	0.16 U	0.15 U
2/21/2019	17	0.10	15	0.11	1.0 U	NC	9.6	0.099	1.0 U	NC	0.20 U	NC	0.16	-70	24	0.016 U	0.015 U
5/22/2019	75	0.45	69	0.53	2.3	0.024	14	0.14	0.77	0.0079	*0.40 U*	NC	0.04	-18	27	0.00050 U	0.00050 U
7/25/2019	39	0.24	41	0.31	1.9	0.020	7.7	0.079	0.46	0.0047	0.34	0.0054	0.04	-43.8	26	0.00050 U	0.00050 U
10/21/2019	3.5	0.021	3.8	0.029	1.0 U	NC	220	2.3	1.0 U	NC	1.5	0.024	0.08	-59.4	34	0.00050 U	0.00050 U
1/22/2020	2.5	0.015	2.7	0.021	1.0 U	NC	230	2.4	1.0 U	NC	70	1.1	1.10	-35.1	11	0.00022 U	0.0052
4/17/2020	8.0	0.048	20	0.15	3.2	0.033	130	1.3	1.4	0.014	140	2.2	0.20	-15.1	17	0.00022 U	0.0068
7/20/2020	0.20 U	NC	0.20 U	NC	0.20 U	NC	1.1	0.011	0.20 U	NC	18	0.29	0.17	-38.7	92	0.00022 U	0.050
10/19/2020	13	0.078	15	0.11	0.46	0.0047	79	0.81	0.51	0.0053	30	0.48	0.08	-91.3	60	0.00022 U	0.019
2/26/2021	0.40 U	NC	0.92	0.0070	0.40 U	NC	22	0.23	0.40 U	NC	49	0.78		-110.1	7.4	0.00022 U	0.018
6/15/2021	1.5	0.0090	23	0.18	2.8	0.029	49	0.51	1.1	0.011	89	1.4	0.04	-132.2	6.7	0.00022 U	0.0049
9/28/2022	0.40 U	NC	0.45	0.0034	0.40 U	NC	21	0.22	0.40 U	NC	48	0.77	0.16	-41.7	3.8	0.00022 U	0.0032
2/20/2023	0.20 U	NC	0.20 U	NC	0.20 U	NC	5.0	0.052	0.20 U	NC	34	0.54	0.40	-67.7	4.1	0.00022 U	0.0039
9/14/2023	0.20 U	NC	0.66	0.0050	0.35	0.0036	6.1	0.063	0.20 U	NC	30	0.48	0.16	18.6	3.0	0.00022 U	0.0016
4/9/2024	0.20 U	NC	0.59	0.0045	0.20 U	NC	4.0	0.041	0.20 U	NC	17	0.27	-0.04	-75.5	4.0	0.00056 U	0.0024
9/24/2024	0.20 U	NC	0.59	0.0045			4.4	0.045	0.20 U	NC	19	0.30	0.15	-82.1	3.9	0.00056 U	0.0011
5/7/2025	0.20 U	NC	0.20 U	NC	0.20 U	NC	3.4	0.035	0.20 U	NC	17	0.27	0.31	-56.1	4.1	0.00056 U	0.0010
9/22/2025	0.20 U	NC	0.20 U	NC	0.20 U	NC	5.0	0.052			16	0.26	0.18	-140	4.2	0.00056 U	0.0098
BSCSS-MW-12																	
5/24/2019	5,400	33	400	3.0	30 U	NC	780	8.0	30 U	NC	*30 U*	NC	0.30	-89.5	2.5	0.25 U	0.25 U
7/22/2019	910	5.5	240	1.8	5.0 U	NC	630	6.5	5.0 U	NC	6.2	0.099	0.05	-341	2.8	0.00050 U	0.00050 U
10/18/2019	360	2.2	68	0.52	2.0 U	NC	240	2.5	2.0 U	NC	0.84	0.013	0.12	40	2.1	0.00050 U	0.00050 U
1/27/2020	260	1.6	120	0.91	2.0 U	NC	450	4.6	2.0 U	NC	1.9	0.030	0.31	38.2	2.3	0.00022 U	0.00029 U
4/21/2020	330	2.0	84	0.64	2.0 U	NC	52	0.54	2.0 U	NC	0.82	0.013	0.18	27.5	2.9	0.00022 U	0.00029 U
7/22/2020	250	1.5	93	0.71	2.0 U	NC	85	0.88	2.0 U	NC	2.7	0.043	0.19	31.4	3.3	0.00022 U	0.00029 U
10/21/2020	450	2.7	81	0.62	2.0 U	NC	93	0.96	2.0 U	NC	3.6	0.058	0.17	30.6	3.4	0.033 U	0.043 U
3/3/2021	650	3.9	65	0.49	4.0 U	NC	140	1.4	4.0 U	NC	20	0.32		12.5	3.9	0.00022 U	0.00069
6/15/2021	820	4.9	170	1.3	4.0 U	NC	180	1.9	4.0 U	NC	5.1	0.082	0.10	-60.7	3.6	0.00022 U	0.00029 U
9/27/2022	20	0.12	12	0.091	2.0 U	NC	330	3.4	2.0 U	NC	49	0.78	0.19	-30.9	23	0.00022 U	0.014
2/20/2023	59	0.36	33	0.25	2.0 U	NC	130	1.3	2.0 U	NC	18	0.29	0.11	-61.5	11	0.00022 U	0.013
9/15/2023	0.20 U	NC	0.20 U	NC	0.20 U	NC	1.2	0.012	0.20 U	NC	2.5	0.040	0.19	129	4.0	0.00022 U	0.00029 U
4/9/2024	0.36	0.0022	2.9	0.022	0.20 U	NC	15	0.15	0.20 U	NC	4.4	0.070	-0.04	-59.3	7.5	0.00056 U	0.00058 U
9/25/2024	27	0.16	37	0.28			520	5.4	4.0 U	NC	90	1.4	0.32	-28.6	4.0	0.00056 U	0.0048
5/7/2025	7.7	0.046	27	0.21	2.0 U	NC	390	4.0	2.0 U	NC	61	0.98	1.84	220	4.5	0.00056 U	0.00058 U
9/24/2025	2.0 U	NC	21	0.16	2.4	0.025	260	2.7			75	1.2	0.1	-110	5.8	0.00056 U	0.0029
BSCSS-MW-20R																	
6/22/2021	430	2.6	220	1.7	4.0 U	NC	230	2.4	12	0.12	40	0.64	0.07	-97.2	12	0.00022 U	0.011
9/1/2022	67	0.40	96	0.73	6.9	0.071	160	1.7	6.0	0.062	72	1.2	0.34	-45.5	9.2	0.0036	0.077
2/2/2023	150	0.90	140	1.1	8.1	0.084	120	1.2	6.3	0.065	87	1.4	0.11	-73.4	6.2	0.0040	0.066
9/19/2023	60	0.36	61	0.46	5.7	0.059	74	0.76	3.4	0.035	94	1.5	0.13	42.9	4.2	0.0032	0.032
4/9/2024	69	0.42	94	0.72	9.0	0.093	45	0.46	3.0	0.031	72	1.2	0.31	-86.4	4.8	0.00056 U	0.014
9/24/2024	99	0.60	88	0.67			33	0.34	2.9	0.030	77	1.2	0.29	-70.9	4.4	0.00056 U	0.020
5/7/2025	65	0.39	66	0.50	13	0.13	40	0.41	2.6	0.027	100	1.6	1.78	210	3.9	0.00056 U	0.0035
9/22/2025	36	0.22	36	0.27	17	0.18	100	1.0			130	2.1	0.42	-170	4.1	0.00056 U	0.060

Table 3
Intermediate Aquifer Zone Data

Analyte Class	VOCs												Field Parameters		Conventionals	Dissolved Gases	
Analyte	Tetrachloroethene		Trichloroethene		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene		Vinyl Chloride		Dissolved Oxygen	ORP	Total Organic Carbon	Ethane	Ethene
CAS No.	127-18-4		79-01-6		75-35-4		156-59-2		156-60-5		75-01-4		--	--	TOC	74-84-0	74-85-1
MTCA Method A CUL [1]	5.0	--	5.0	--	--	--	16	--	160	--	0.20	--	--	--	--	--	--
Unit	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	mg/L	mV	mg/L	mg/L	mg/L
Sample Date																	
BSCSS-MW-42																	
12/14/2018	460	2.8	23	0.18	1.0 U	NC	1.9	0.020	1.0 U	NC	0.20 U	NC			5.3	0.016 U	0.015 U
1/3/2019	1.0 U	NC	0.50 U	NC	1.0 U	NC	1.0 U	NC	1.0 U	NC	0.20 U	NC					
3/18/2019	1.0 U	NC	0.50 U	NC	1.0 U	NC	1.0 U	NC	1.0 U	NC	0.20 U	NC	0.06	76.4	1.9	0.016 U	0.015 U
6/5/2019	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.13	5	2.3	0.25 U	0.25 U
7/29/2019	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.72	0.0074	0.20 U	NC	0.053	0.00085	0.05	-321.9	1.7	0.00050 U	0.00050 U
10/22/2019	0.20 U	NC	0.20 U	NC	0.20 U	NC	1.9	0.020	0.20 U	NC	0.056	0.00090	0.10	-10.2	3.9		
1/29/2020	0.20 U	NC	0.20 U	NC	0.20 U	NC	20	0.21	0.20 U	NC	3.3	0.053	0.02	-24.8	6.3	0.00022 U	0.00029 U
4/16/2020	0.20 U	NC	0.20 U	NC	0.20 U	NC	26	0.27	0.20 U	NC	27	0.43	0.47	-19.2	3.5	0.00022 U	0.012
7/24/2020	0.20 U	NC	0.20 U	NC	0.20 U	NC	5.3	0.055	0.20 U	NC	15	0.24	0.23	-34.7	5.5	0.00022 U	0.037
10/26/2020	0.42	0.0025	0.24	0.0018	0.20 U	NC	9.9	0.10	0.20 U	NC	4.5	0.072	0.25	-57.1	46	0.00022 U	0.014
3/1/2021	0.20 U	NC	0.20 U	NC	0.20 U	NC	1.7	0.018	0.20 U	NC	1.4	0.022		-82.6	7.7	0.022 U	0.029 U
6/11/2021	0.20 U	NC	0.23	0.0018	0.20 U	NC	1.4	0.014	0.20 U	NC	1.4	0.022	0.07	-96.4	3.8	0.00022 U	0.00029 U
9/29/2022	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.27	0.0028	4.7	0.048	0.31	0.0050	0.23	-57.5	3.4	0.00022 U	0.00029 U
2/8/2023	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.72	0.012	0.32	-78.5	2.7	0.00022 U	0.00029 U
9/22/2023	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.97	0.010	0.20 U	NC	0.65	0.010	0.07	102.7	2.6	0.00022 U	0.00029 U
4/10/2024	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.62	0.0064	0.20 U	NC	0.60	0.0096	0.32	-78.2	4.3	0.00056 U	0.00058 U
9/26/2024	1.0 U	NC	0.20 U	NC			0.66	0.0068	0.20 U	NC	0.73	0.012	0.48	-101.2	2.9	0.00056 U	0.00058 U
5/6/2025	3.8	0.023	1.5	0.011	0.20 U	NC	10	0.10	0.20 U	NC	0.99	0.016	0.72	170	3.3	0.00056 U	0.00058 U
9/23/2025	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.56	0.0058			0.55	0.0088	0.35	-130	2.9	0.00056 U	0.00058 U
BSCSS-MW-44R																	
6/23/2021	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.82	0.013	0.09	-143.2	4.2	0.00022 U	0.0050
9/27/2022	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.56	0.0090	0.16	-47.8	4.8	0.00057	0.00030
2/8/2023	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.72	0.012	0.11	-49.8	4.5	0.00023	0.00046
9/22/2023	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.47	0.0075	0.05	175.8	5.7	0.00022 U	0.00029 U
9/26/2024	3.7	0.022	2.8	0.021			0.20 U	NC	0.20 U	NC	0.47	0.0075	0.44	-81.2	6.6	0.00056 U	0.00058 U
5/6/2025	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.44	0.0070	0.21	-71.8	7.4	0.00056 U	0.00058 U
9/23/2025	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC			0.46	0.0074	0.17	-200	7.7	0.00088	0.00058 U
BSCSS-HZ-MW-14D																	
12/13/2018	44	0.27	3.3	0.025	1.0 U	NC	14	0.14	1.0 U	NC	0.20 U	NC	0.07	36	0.97	0.016 U	0.015 U
5/21/2019	65	0.39	2.9	0.022	0.20 U	NC	12	0.12	0.20 U	NC	0.20 U	NC	0.06	-40.7	1.0 U	0.010 U	0.010 U
7/29/2019	100	0.60	4.7	0.036	0.80 U	NC	28	0.29	0.80 U	NC	0.30	0.0048	0.22	-86.5	1.0	0.00050 U	0.00050 U
10/16/2019	190	1.1	7.9	0.060	1.0 U	NC	48	0.50	1.0 U	NC	0.51	0.0082	0.02	143.8	1.0 U	0.00050 U	0.00050 U
1/22/2020	400	2.4	24	0.18	2.0 U	NC	140	1.4	2.0 U	NC	1.1	0.018	2.10	132.8	1.2	0.00022 U	0.00029 U
4/15/2020	400	2.4	24	0.18	2.0 U	NC	110	1.1	2.0 U	NC	0.76	0.012	0.28	14.4	1.2	0.00022 U	0.00029 U
7/21/2020	210	1.3	15	0.11	1.0 U	NC	61	0.63	1.0 U	NC	0.35	0.0056	0.32	104.2	1.2	0.00022 U	0.00029 U
10/28/2020	110	0.66	9.9	0.075	0.80 U	NC	27	0.28	0.80 U	NC	0.91	0.015	0.25	135.5	1.2	0.00022 U	0.00029 U
3/4/2021	110	0.66	12	0.091	1.0 U	NC	35	0.36	1.0 U	NC	2.4	0.038	0.46	39.4	1.4	0.00022 U	0.00029 U
6/15/2021	56	0.34	9.7	0.074	0.40 U	NC	27	0.28	0.78	0.0080	3.0	0.048	0.38	-9.2	1.6	0.00022 U	0.00029 U
9/6/2022	15	0.090	2.1	0.016	0.40 U	NC	35	0.36	0.40 U	NC	14	0.22	0.08	44.1	2.6	0.00091	0.00043
2/3/2023	8.5	0.051	2.3	0.018	0.24	0.0025	34	0.35	0.30	0.0031	6.7	0.11	0.10	70.8	2.5	0.0011	0.00029 U
9/21/2023	2.3	0.014	3.4	0.026	0.30	0.0031	31	0.32	0.28	0.0029	2.5	0.040	0.12	234.8	2.1	0.00022 U	0.00029 U
4/9/2024	3.8	0.023	2.9	0.022	0.34	0.0035	26	0.27	0.23	0.0024	3.9	0.062	0.34	82.6	2.8	0.00056 U	0.00058 U
9/24/2024	2.5	0.015	3.8	0.029			24	0.25	0.26	0.0027	1.8	0.029	0.18	56.7	2.5	0.00056 U	0.00058 U
5/6/2025	1.3	0.0078	2.1	0.016	0.20 U	NC	18	0.19	0.22	0.0023	1.8	0.029	0.18	90.3	3.1	0.00056 U	0.00058 U
9/23/2025	1.1	0.0066	2.2	0.017	0.20 U	NC	13	0.13			1.4	0.022	0.11	25.9	3.1	0.00056 U	0.00058 U

Table 3
Intermediate Aquifer Zone Data

Analyte Class	VOCs												Field Parameters		Conventionals	Dissolved Gases	
Analyte	Tetrachloroethene		Trichloroethene		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene		Vinyl Chloride		Dissolved Oxygen	ORP	Total Organic Carbon	Ethane	Ethene
CAS No.	127-18-4		79-01-6		75-35-4		156-59-2		156-60-5		75-01-4		--	--	TOC	74-84-0	74-85-1
MTCA Method A CUL [1]	5.0	--	5.0	--	--	--	16	--	160	--	0.20	--	--	--	--	--	--
Unit	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	mg/L	mV	mg/L	mg/L	mg/L
Sample Date																	
BSCSS-HZ-MW-15D																	
12/27/2018	**6,400**	39	**230**	1.8	50 U	NC	**200**	2.1	50 U	NC	*10 U*	NC	0.09	52.4	1.1	0.16 U	0.15 U
6/4/2019	**10,000**	60	**390**	3.0	100 U	NC	**260**	2.7	100 U	NC	*100 U*	NC	0.12	20.9	1.5	0.25 U	0.25 U
7/23/2019	**9,200**	55	**390**	3.0	50 U	NC	**340**	3.5	50 U	NC	*5.0 U*	NC	0.24	-56.6	1.6	0.00050 U	0.00050 U
10/17/2019	**7,700**	46	**410**	3.1	50 U	NC	**360**	3.7	50 U	NC	*5.0 U*	NC	0.12	173.5	1.3	0.00050 U	0.00050 U
1/22/2020	**4,000**	24	**280**	2.1	20 U	NC	**410**	4.2	20 U	NC	*2.0 U*	NC	0.11	88.9	1.2	0.00022 U	0.00029 U
4/15/2020	**3,300**	20	**240**	1.8	20 U	NC	**400**	4.1	20 U	NC	*2.0 U*	NC	0.27	32.4	1.2	0.00022 U	0.00029 U
7/22/2020	**2,000**	12	**170**	1.3	10 U	NC	**340**	3.5	10 U	NC	*1.0 U*	NC	0.33	80.8	1.4	0.00022 U	0.00029 U
10/23/2020	**2,200**	13	**170**	1.3	10 U	NC	**330**	3.4	10 U	NC	**1.3**	0.021	0.21	108.6	1.0 U	0.022 U	0.029 U
3/3/2021	**2,200**	13	**190**	1.4	10 U	NC	**200**	2.1	10 U	NC	**4.3**	0.069		109.4	1.0 U	0.00022 U	0.00029 U
6/22/2021	**3,000**	18	**230**	1.8	20 U	NC	**290**	3.0	20 U	NC	**4.3**	0.069	0.11	-34.9	1.6	0.00022 U	0.00029 U
9/8/2022	**2,700**	16	**130**	0.99	10 U	NC	**150**	1.5	10 U	NC	**3.0**	0.048	0.12	19	1.3	0.00022 U	0.00029 U
2/21/2023	**4,400**	27	**190**	1.4	10 U	NC	**210**	2.2	10 U	NC	**1.1**	0.018	0.16	89.9	1.2	0.00022 U	0.00029 U
9/20/2023	**2,200**	13	**160**	1.2	20 U	NC	**160**	1.7	20 U	NC	**0.82**	0.013	0.20	204.9	1.3	0.00022 U	0.00029 U
4/10/2024	**1,500**	9.0	**220**	1.7	8.0 U	NC	**260**	2.7	8.0 U	NC	**0.84**	0.013	0.49	85	1.6	0.00056 U	0.00058 U
9/24/2024	**1,100**	6.6	**450**	3.4			**380**	3.9	8.0 U	NC	*8.0 U*	NC	0.45	76.5	1.4	0.00056 U	0.00058 U
5/5/2025	**1,000**	6.0	**590**	4.5	4.0 U	NC	**240**	2.5	4.0 U	NC	**0.49**	0.0078	0.23	190	1.3	0.00056 U	0.00058 U
9/22/2025	*8.0 U*	NC	**12**	0.091	8.0 U	NC	**1,200**	12			*8.0 U*	NC	0.15	-130	22	0.00056 U	0.00058 U
BSCSS-HZ-MW-24																	
12/10/2018	2.8	0.017	0.91	0.0069	1.0 U	NC	5.4	0.056	1.0 U	NC	0.20 U	NC	0.08	-1.4	7.0	0.016 U	0.015 U
5/31/2019	2.0	0.012	0.92	0.0070	0.20 U	NC	**21**	0.22	0.20	0.0021	**0.77**	0.012	0.13	-11.7	3.5	0.25 U	0.25 U
7/17/2019	2.7	0.016	1.1	0.0084	0.20 U	NC	16	0.17	0.20 U	NC	**0.58**	0.0093	0.07	-167.7	3.8	0.00050 U	0.00050 U
10/24/2019	0.40 U	NC	0.40 U	NC	0.40 U	NC	**93**	0.96	0.40 U	NC	**0.76**	0.012	0.16	10	4.7	0.00050 U	0.00050 U
1/27/2020	2.2	0.013	1.3	0.0099	1.0 U	NC	**150**	1.5	1.0 U	NC	**3.2**	0.051	0.13	35.3	4.9	0.00022 U	0.00029 U
4/14/2020	0.40 U	NC	0.40 U	NC	0.40 U	NC	**73**	0.75	0.40 U	NC	**30**	0.48	0.22	-13.9	5.4	0.00022 U	0.0027
7/22/2020	0.94	0.0057	1.8	0.014	0.20 U	NC	**28**	0.29	0.20 U	NC	**2.6**	0.042	0.30	3.7	4.5	0.0022 U	0.0076
10/28/2020	1.3	0.0078	1.3	0.0099	0.20 U	NC	**35**	0.36	0.27	0.0028	**2.0**	0.032	0.20	26.6	3.8	0.00022 U	0.00029 U
3/2/2021	0.20 U	NC	0.35	0.0027	0.20 U	NC	6.1	0.063	0.20 U	NC	0.17	0.0027		19.9	2.8	0.00022 U	0.00029 U
6/18/2021	0.20 U	NC	0.21	0.0016	0.20 U	NC	5.0	0.052	0.20 U	NC	0.13	0.0021	0.09	-154.6	4.9	0.0022 U	0.0029 U
9/20/2022	3.8	0.023	4.1	0.031	0.20 U	NC	**25**	0.26	0.20 U	NC	**0.80**	0.013	0.18	-53	5.3	0.00022 U	0.00029 U
2/7/2023	2.7	0.016	2.3	0.018	0.20 U	NC	15	0.15	0.20 U	NC	**0.55**	0.0088	0.09	-7	2.3	0.00022 U	0.00029 U
9/8/2023	2.0	0.012	2.0	0.015	0.20 U	NC	11	0.11	0.20 U	NC	**0.61**	0.0098	0.25	80.3	2.6	0.00022 U	0.00029 U
4/10/2024	1.0	0.0060	1.3	0.0099	0.20 U	NC	9.0	0.093	0.20 U	NC	**0.26**	0.0042	0.30	-30.4	1.9	0.00056 U	0.00058 U
9/24/2024	3.6	0.022	2.8	0.021			14	0.14	0.20 U	NC	**0.42**	0.0067	0.47	-47.8	2.7	0.00056 U	0.00058 U
5/7/2025	4.5	0.027	3.5	0.027	0.20 U	NC	**19**	0.20	0.20 U	NC	**0.52**	0.0083	0.72	140	2.3	0.00056 U	0.00058 U
9/24/2025	**45**	0.27	**19**	0.14	0.40 U	NC	**29**	0.30			**0.73**	0.012	0.1	-110	1.7	0.00056 U	0.00058 U
BSCSS-HZ-MW-26																	
12/4/2018	**6.2**	0.037	0.50 U	NC	1.0 U	NC	1.0	0.010	1.0 U	NC	0.20 U	NC	0.10	75.6	2.3	0.016 U	0.015 U
5/30/2019	**9.7**	0.058	0.20 U	NC	0.20 U	NC	1.4	0.014	0.20 U	NC	0.20 U	NC	0.18	17	1.0 U	0.00050 U	0.00050 U
7/29/2019	5.0	0.030	0.20 U	NC	0.20 U	NC	1.0	0.010	0.20 U	NC	0.053	0.00085	0.21	-96.7	1.0 U	0.00050 U	0.00050 U
10/16/2019	2.8	0.017	0.20 U	NC	0.20 U	NC	0.53	0.0055	0.20 U	NC	0.055	0.00088	0.03	152.3	1.0 U	0.00050 U	0.00050 U
1/24/2020	1.5	0.0090	0.20 U	NC	0.20 U	NC	0.42	0.0043	0.20 U	NC	0.041	0.00066	0.10	36.3	1.0 U	0.00022 U	0.00052

Table 3
Intermediate Aquifer Zone Data

Analyte Class	VOCs												Field Parameters		Conventionals	Dissolved Gases	
Analyte	Tetrachloroethene		Trichloroethene		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene		Vinyl Chloride		Dissolved Oxygen	ORP	Total Organic Carbon	Ethane	Ethene
CAS No.	127-18-4		79-01-6		75-35-4		156-59-2		156-60-5		75-01-4		--	--	TOC	74-84-0	74-85-1
MTCA Method A CUL [1]	5.0	--	5.0	--	--	--	16	--	160	--	0.20	--	--	--	--	--	--
Unit	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	mg/L	mV	mg/L	mg/L	mg/L
Sample Date																	
BSCSS-HZ-MW-26 (cont.)																	
4/13/2020	73	0.44	2.5	0.019	0.40 U	NC	4.9	0.051	0.40 U	NC	0.040 U	NC	0.66	-4.8	1.0 U	0.00022 U	0.00029 U
7/17/2020	15	0.090	0.84	0.0064	0.20 U	NC	2.2	0.023	0.20 U	NC	0.026	0.00042	0.31	-13.7	1.0 U	0.00022 U	0.00029 U
10/27/2020	14	0.084	0.34	0.0026	0.20 U	NC	1.8	0.019	0.20 U	NC	0.034	0.00054	0.22	110.7	1.0 U	0.00022 U	0.00029 U
3/5/2021	1.7	0.010	0.20 U	NC	0.20 U	NC	0.26	0.0027	0.20 U	NC	0.020 U	NC	2.65	84.4	1.0 U	0.00022 U	0.00029 U
6/14/2021	5.0	0.030	0.20 U	NC	0.20 U	NC	1.2	0.012	0.20 U	NC	0.020	0.00032	0.15	13	1.0 U	0.00022 U	0.00029 U
6/22/2021	4.8	0.029	0.20 U	NC	0.20 U	NC	1.1	0.011	0.20 U	NC	0.020 U	NC			1.1	0.00022 U	0.00029 U
9/8/2022	22	0.13	0.43	0.0033	0.20 U	NC	2.0	0.021	0.20 U	NC	0.048	0.00077	0.15	43.3	1.0 U	0.00022 U	0.00029 U
2/21/2023	7.4	0.045	0.20 U	NC	0.20 U	NC	1.6	0.017	0.20 U	NC	0.076	0.0012	0.14	121.7	1.0 U	0.00022 U	0.00029 U
9/12/2023	11	0.066	0.20 U	NC	0.20 U	NC	1.2	0.012	0.20 U	NC	0.20 U	NC	0.15	315.8	1.0 U	0.00022 U	0.00029 U
4/10/2024	18	0.11	0.22	0.0017	0.20 U	NC	2.0	0.021	0.20 U	NC	0.20 U	NC	0.39	102.9	1.6	0.00056 U	0.00058 U
9/23/2024	32	0.19	0.35	0.0027			3.5	0.036	0.20 U	NC	0.20 U	NC	0.24	146.4	1.0 U	0.00056 U	0.00058 U
5/7/2025	60	0.36	0.65	0.0049	0.40 U	NC	5.3	0.055	0.40 U	NC	0.20 U	NC	0.71	100	1.0 U	0.00056 U	0.00058 U
9/24/2025	52	0.31	0.56	0.0043	0.40 U	NC	5.2	0.054			*0.40 U*	NC	0.16	150	1.0 U	0.00056 U	0.00058 U
BSCSS-HZ-MW-29																	
12/10/2018	14	0.084	4.1	0.031	1.0 U	NC	11	0.11	1.0 U	NC	0.20 U	NC	0.07	3.5	2.7	0.016 U	0.015 U
5/31/2019	1.4	0.0084	0.60	0.0046	0.20 U	NC	32	0.33	0.22	0.0023	0.26	0.0042	0.35	-2.3	52	0.25 U	0.25 U
7/17/2019	1.2	0.0072	0.58	0.0044	0.20 U	NC	32	0.33	0.32	0.0033	0.47	0.0075	0.09	-93.7	15	0.00050 U	0.00050 U
10/24/2019	1.0 U	NC	1.0 U	NC	1.0 U	NC	100	1.0	1.0 U	NC	0.94	0.015	0.14	-9.6	2.1	0.00050 U	0.00050 U
1/27/2020	1.0 U	NC	1.5	0.011	1.0 U	NC	100	1.0	1.0 U	NC	1.5	0.024	0.17	42.1	1.8	0.00022 U	0.00029 U
4/13/2020	1.0 U	NC	5.2	0.040	1.0 U	NC	130	1.3	1.0 U	NC	5.8	0.093	0.28	-76.4	3.2	0.00022 U	0.00029 U
7/17/2020	1.0 U	NC	1.0 U	NC	1.0 U	NC	190	2.0	1.0	0.010	40	0.64	0.24	-49.1	12	0.00022 U	0.014
10/28/2020	0.20 U	NC	0.27	0.0021	0.20 U	NC	21	0.22	0.55	0.0057	9.2	0.15	0.20	-52.5	5.8	0.00022 U	0.026
3/5/2021	0.20 U	NC	0.29	0.0022	0.20 U	NC	19	0.20	0.36	0.0037	5.1	0.082	0.21	-144.6	1.9	0.0022 U	0.0029 U
6/22/2021	0.20 U	NC	0.32	0.0024	0.20 U	NC	20	0.21	0.30	0.0031	9.7	0.16	0.10	-130.1	2.1	0.00022 U	0.0017
9/20/2022	0.20 U	NC	0.24	0.0018	0.20 U	NC	30	0.31	0.25	0.0026	15	0.24	0.21	-35.4	1.3	0.00022 U	0.0018
2/7/2023	0.20 U	NC	0.20 U	NC	0.20 U	NC	32	0.33	0.29	0.0030	16	0.26	0.10	-37.7	1.1	0.00022 U	0.00029 U
9/8/2023	0.20 U	NC	0.20 U	NC	0.20 U	NC	32	0.33	0.24	0.0025	13	0.21	0.12	35.7	1.1	0.00022 U	0.00029 U
4/10/2024	0.20 U	NC	0.20 U	NC	0.20 U	NC	29	0.30	0.22	0.0023	10	0.16	0.40	-48.5	7.7	0.00056 U	0.00058 U
9/24/2024	0.20 U	NC	0.20 U	NC			22	0.23	0.20 U	NC	8.4	0.13	0.15	-70.8	1.6	0.00056 U	0.00058 U
5/7/2025	0.20 U	NC	0.20 U	NC	0.20 U	NC	18	0.19	0.20 U	NC	5.2	0.083	0.89	-41.6	1.2	0.00056 U	0.00058 U
9/24/2025	0.20 U	NC	0.20 U	NC	0.20 U	NC	21	0.22			6.4	0.10	0.08	-110	1.0 U	0.00056 U	0.00058 U
BSCSS-HZ-MW-33R																	
8/11/2021	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.064	0.0010	0.35	102.6	2.2	0.00022 U	0.00029 U
10/3/2022	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.039	0.00062	0.40	106.3	1.0 U	0.00022 U	0.00029 U
2/7/2023	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.033	0.00053	0.12	146.8	1.0 U	0.00022 U	0.00029 U
9/21/2023	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.10	216.1	1.0 U	0.00022 U	0.00029 U
4/11/2024	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.36	105.9	1.0 U	0.00056 U	0.00058 U
9/24/2024	0.20 U	NC	0.20 U	NC			0.20 U	NC	0.20 U	NC	0.20 U	NC	0.45	82.5	1.0 U	0.00056 U	0.00058 U
5/7/2025	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	1.6	240	1.0 U	0.00056 U	0.00058 U
9/23/2025	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC			0.20 U	NC	0.13	120	1.0 U	0.00056 U	0.00058 U

Table 3
Intermediate Aquifer Zone Data

Analyte Class	VOCs												Field Parameters		Conventionals	Dissolved Gases	
Analyte	Tetrachloroethene		Trichloroethene		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene		Vinyl Chloride		Dissolved Oxygen	ORP	Total Organic Carbon	Ethane	Ethene
CAS No.	127-18-4		79-01-6		75-35-4		156-59-2		156-60-5		75-01-4		--	--	TOC	74-84-0	74-85-1
MTCA Method A CUL [1]	5.0	--	5.0	--	--	--	16	--	160	--	0.20	--	--	--	--	--	--
Unit	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	mg/L	mV	mg/L	mg/L	mg/L
Sample Date																	
BSCSS-S-MW-3RR																	
8/20/2021	**94**	0.57	0.72	0.0055	0.40 U	NC	0.40 U	NC	0.40 U	NC	0.040 U	NC	16.7	-317.2	1.0	0.00022 U	0.00029 U
10/14/2022	**37**	0.22	0.41	0.0031	0.20 U	NC	0.69	0.0071	0.20 U	NC	0.020 U	NC	0.54	192.1	1.3	0.00022 U	0.00029 U
2/10/2023	**76**	0.46	0.94	0.0072	0.40 U	NC	2.4	0.025	0.40 U	NC	0.040 U	NC	0.12	44.7	1.0 U	0.00022 U	0.00029 U
2/17/2024	**89**	0.54	1.9	0.014	0.40 U	NC	5.5	0.057	0.40 U	NC	**0.47**	0.0075	1.60	11.6	9.1	0.00056 U	0.00058 U
4/10/2024	**85**	0.51	3.5	0.027	0.40 U	NC	10	0.10	0.40 U	NC	**1.6**	0.026	0.27	-9.3	11	0.00056 U	0.00058 U
BSCSS-S-MW-3RRR																	
9/26/2024	**270**	1.6	0.82	0.0062			0.55	0.0057	0.20 U	NC	0.20 U	NC	2.86	-44.1	1.1	0.00056 U	0.00058 U
5/7/2025	**170**	1.0	1.1	0.0084	1.0 U	NC	1.5	0.015	1.0 U	NC	0.20 U	NC	0.25	100	1.0	0.00056 U	0.00058 U
9/23/2025	**95**	0.57	1.1	0.0084	0.40 U	NC	2.0	0.021			**0.58**	0.0093	0.13	120	1.1	0.00056 U	0.00058 U

Notes:

All blank cells are intentional.
All chemistry results are rounded to two significant figures.
Field parameters are reported as displayed by the sampling equipment.
-- Not available.
Italic Analyte was not detected at a reporting limit greater than the CUL.
RED/BOLD Analyte was detected at a concentration greater than the CUL.
Well is inactive or decommissioned.
1 CULs are based on MTCA Method A values, except for cis- and trans-1,2-dichloroethene, which use MTCA Method B.

Abbreviations:

CAS Chemical Abstracts Service
CUL Cleanup level
µg/L Micrograms per liter
µmol/L Micromoles per liter
mg/L Milligrams per liter
MTCA Model Toxics Control Act
mV Millivolts
NC Molar concentration not calculated, analyte was not detected
ORP Oxidation–reduction potential
VOC Volatile organic compound

Qualifier:

U Analyte was not detected at the associated reporting limit.

Table 4
Deep Aquifer Zone Data

Analyte Class	VOCs												Field Parameters		Conventionals	Dissolved Gases	
Analyte	Tetrachloroethene		Trichloroethene		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene		Vinyl Chloride		Dissolved Oxygen	ORP	Total Organic Carbon	Ethane	Ethene
CAS No.	127-18-4		79-01-6		75-35-4		156-59-2		156-60-5		75-01-4		--	--	TOC	74-84-0	74-85-1
MTCA Method A CUL [1]	5.0	--	5.0	--	--	--	16	--	160	--	0.20	--	--	--	--	--	--
Unit	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	mg/L	mV	mg/L	mg/L	mg/L
Sample Date																	
BSCSS-MW-29																	
12/12/2018	1.1	0.0066	0.50 U	NC	1.0 U	NC	1.0 U	NC	1.0 U	NC	0.20 U	NC	0.15	-16.7	3.0	0.016 U	0.015 U
6/4/2019	0.26	0.0016	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.25	15	2.2	0.015 U	0.015 U
7/16/2019	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	0.11	-106.2	2.1	0.00050 U	0.00050 U
10/18/2019	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	0.11	7.4	2.2	0.00050 U	0.00050 U
1/29/2020	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	0.04	-82	1.9	0.00022 U	0.00029 U
4/16/2020	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	0.31	-11.6	2.0	0.00022 U	0.00029 U
7/24/2020	**9.0**	0.054	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC			1.0 U	0.00022 U	0.00029 U
8/10/2020	1.9	0.011	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	0.14	176.4	2.0	0.00022 U	0.00029 U
10/19/2020	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	0.17	-62.8	2.0	0.00044 U	0.00058 U
2/26/2021	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC		-60.1	2.3	0.00022 U	0.00029 U
6/17/2021	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	0.12	-147.7	2.3	0.00022 U	0.00029 U
9/22/2022	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	0.21	-77.4	1.9	0.00022 U	0.00029 U
2/10/2023	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.020 U	NC	0.11	-24.9	1.8	0.00022 U	0.00029 U
9/7/2023	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.15	5.5	1.7	0.00022 U	0.00029 U
9/23/2024	0.20 U	NC	0.20 U	NC			0.20 U	NC	0.20 U	NC	0.20 U	NC	0.36	-73.7	1.7	0.00056 U	0.00058 U
5/7/2025	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.71	53.9	1.6	0.00056 U	0.00058 U
9/23/2025	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC			0.20 U	NC	0.1	-150	1.5	0.00056 U	0.00058 U
BSCSS-MW-34																	
12/11/2018	1.0 U	NC	0.50 U	NC	1.0 U	NC	1.0 U	NC	1.0 U	NC	0.20 U	NC	0.09	44.3	1.2	0.016 U	0.015 U
2/21/2019	1.3	0.0078	0.50 U	NC	1.0 U	NC	1.5	0.015	1.0 U	NC	0.20 U	NC	0.22	91.9	1.5	0.016 U	0.015 U
6/3/2019	1.3	0.0078	0.20 U	NC	0.20 U	NC	3.2	0.033	0.20 U	NC	0.20 U	NC	0.19	18.6	1.8	0.0075 U	0.0075 U
6/15/2021	0.30	0.0018	0.34	0.0026	0.20 U	NC	0.44	0.0045	0.20 U	NC	0.11	0.0018	0.11	-22.3	1.8	0.00022 U	0.00029 U
9/1/2022	0.20	0.0012	0.20 U	NC	0.20 U	NC	0.20	0.0021	0.20 U	NC	**0.67**	0.011	0.42	12.4	1.9	0.00022 U	0.00029 U
2/3/2023	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	**2.6**	0.042	0.09	32.6	1.6	0.00022 U	0.00029 U
9/14/2023	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	0.20 U	NC	1.03	81.8	1.5	0.00022 U	0.00029 U
4/9/2024	0.35	0.0021	0.33	0.0025	0.20 U	NC	0.28	0.0029	0.20 U	NC	**0.57**	0.0091	0.02	16.3	2.8	0.00056 U	0.00058 U
9/24/2024	0.25	0.0015	0.28	0.0021			0.25	0.0026	0.20 U	NC	**0.37**	0.0059	0.3	64.5	1.9	0.00056 U	0.00058 U
5/5/2025	0.58	0.0035	0.42	0.0032	0.20 U	NC	0.32	0.0033	0.20 U	NC	**0.65**	0.010	0.8	190	1.9	0.00056 U	0.00058 U
9/22/2025	0.65	0.0039	0.50	0.0038	0.20 U	NC	0.37	0.0038			**0.77**	0.012	0.18	9.7	1.9	0.00056 U	0.00058 U
BSCSS-MW-39																	
12/17/2018	2.3	0.014	2.6	0.020	1.0 U	NC	6.8	0.070	1.0 U	NC	0.20 U	NC	0.15	-3.5	3.4	0.016 U	0.015 U
3/13/2019	1.0 U	NC	0.50 U	NC	1.0 U	NC	2.0	0.021	1.0 U	NC	0.20 U	NC	1.33	82.2	4.2	0.016 U	0.015 U
5/29/2019	0.33	0.0020	0.34	0.0026	0.20 U	NC	1.2	0.012	0.20 U	NC	0.20 U	NC	0.14	1.8	3.3	0.10 U	0.10 U
7/23/2019	0.52	0.0031	0.63	0.0048	0.20 U	NC	1.3	0.013	0.20 U	NC	0.020 U	NC	0.25	-96.6	2.9	0.00050 U	0.00050 U
10/24/2019	0.52	0.0031	0.52	0.0040	0.20 U	NC	1.6	0.017	0.20 U	NC	0.020 U	NC	0.24	19.8	3.1	0.00050 U	0.00050 U
1/28/2020	0.20 U	NC	0.20 U	NC	0.20 U	NC	1.8	0.019	0.20 U	NC	0.020 U	NC	0.21	57.1	3.2	0.00022 U	0.00029 U

Table 4
Deep Aquifer Zone Data

Analyte Class	VOCs												Field Parameters		Conventionals	Dissolved Gases	
Analyte	Tetrachloroethene		Trichloroethene		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene		Vinyl Chloride		Dissolved Oxygen	ORP	Total Organic Carbon	Ethane	Ethene
CAS No.	127-18-4		79-01-6		75-35-4		156-59-2		156-60-5		75-01-4		--	--	TOC	74-84-0	74-85-1
MTCA Method A CUL [1]	5.0	--	5.0	--	--	--	16	--	160	--	0.20	--	--	--	--	--	--
Unit	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	µg/L	µmol/L	mg/L	mV	mg/L	mg/L	mg/L
Sample Date																	
BSCSS-MW-39 (cont.)																	
4/27/2020	3.1	0.019	2.2	0.017	0.20 U	NC	8.9	0.092	0.20 U	NC	0.024	0.00038	4.4	48.5	2.1	0.00022 U	0.00029 U
7/29/2020	0.20 U	NC	0.20	0.0015			0.77	0.0079			0.042	0.00067	0.13	-30	3.6	0.00022 U	0.00029 U
10/22/2020	1.3	0.0078	0.42	0.0032	0.20 U	NC	1.2	0.012	0.20 U	NC	0.063	0.0010	0.36	13.3	3.3	0.0022 U	0.0029 U
3/5/2021	**70**	0.42	**10**	0.076	0.40 U	NC	1.1	0.011	0.40 U	NC	0.040 U	NC			3.2	0.0022 U	0.0029 U
3/12/2021	**46**	0.28	**7.7**	0.059	0.20 U	NC	1.5	0.015	0.20 U	NC	0.020 U	NC	0.43	-53.3	2.9	0.00022 U	0.00029 U
6/21/2021	**280**	1.7	**40**	0.30	2.0 U	NC	2.0 U	NC	2.0 U	NC	0.20 U	NC	0.13	-106.1	3.9	0.00022 U	0.00029 U
9/29/2022	**270**	1.6	**61**	0.46	2.0 U	NC	2.0 U	NC	2.0 U	NC	**0.85**	0.014	0.19	-10.8	5.0	0.00022 U	0.0020
2/6/2023	**210**	1.3	**60**	0.46	1.0 U	NC	1.0 U	NC	1.0 U	NC	0.10	0.0016	0.28	-34.4	4.8	0.00022 U	0.00029 U
9/26/2023	**460**	2.8	**100**	0.76	2.0 U	NC	2.0 U	NC	2.0 U	NC	0.20 U	NC	0.12	128.8	4.5	0.00022 U	0.0031
4/11/2024	**220**	1.3	**56**	0.43	2.0 U	NC	2.0 U	NC	2.0 U	NC	0.20 U	NC	0.35	-33.3	5.8	0.00056 U	0.00058 U
9/26/2024	**200**	1.2	**53**	0.40			1.0 U	NC	1.0 U	NC	*1.0 U*	NC	0.35	-53.1	4.7	0.00056 U	0.00058 U
5/6/2025	**120**	0.72	**40**	0.30	0.80 U	NC	0.80 U	NC	0.80 U	NC	0.20 U	NC	0.2	-63.3	5.0	0.00056 U	0.00058 U
9/23/2025	0.20 U	NC	0.20 U	NC	0.20 U	NC	3.3	0.034			**0.54**	0.0086	0.11	-180	16	0.00056 U	0.00058 U

Notes:

All blank cells are intentional.
All chemistry results are rounded to two significant figures.
Field parameters are reported as displayed by the sampling equipment.
-- Not available.
Italic Analyte was not detected at a reporting limit greater than the CUL.
RED/BOLD Analyte was detected at a concentration greater than the CUL.
1 CULs are based on MTCA Method A values, except for cis- and trans-1,2-dichloroethene, which use MTCA Method B.

Abbreviations:

CAS Chemical Abstracts Service
CUL Cleanup level
µg/L Micrograms per liter
µmol/L Micromoles per liter
mg/L Milligrams per liter
MTCA Model Toxics Control Act
mV Millivolts
NC Molar concentration not calculated, analyte was not detected
ORP Oxidation–reduction potential
VOC Volatile organic compound

Qualifier:

U Analyte was not detected at the associated reporting limit.

Table 5
All Wells: Groundwater Elevations and Field Parameters

					Analyte Class	VOCs						Field Parameters				
					Analyte	Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	pH	Temperature	Conductivity	Specific Conductance	Dissolved Oxygen
					CAS No.	127-18-4	79-01-6	75-35-4	156-59-2	156-60-5	75-01-4	pH	--	--	--	--
					MTCA Method A CUL [1]	5.0	5.0	--	16	160	0.20	--	--	--	--	--
					Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pH	°C	µS/cm	µS/cm	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)											
BSCSS-MW-4R																
8/2/2021	Shallow	10–25	42.00	9.33	32.67	**2,000**	**120**	10 U	**230**	10 U	**20**	6.14	20.2	393.4		0.29
8/30/2022	Shallow	10–25	42.00	7.68	34.32	**1,300**	**220**	8.0 U	**640**	8.0 U	**40**	6.17	18.8	571		0.03
2/20/2023	Shallow	10–25	42.00	6.46	35.54	**490**	**110**	10 U	**1,200**	10 U	**52**	6.35	15.2	453.7		0.1
9/15/2023	Shallow	10–25	42.00	7.89	34.11	**390**	**70**	2.0 U	**380**	2.0 U	**18**	6.04	15.5	377.6		0.16
4/9/2024	Shallow	10–25	44.56	6.90	37.66	**130**	**63**	4.0 U	**590**	4.0 U	**13**	6.50	13.0		367.4	0.61
9/25/2024	Shallow	10–25	44.56	7.58	36.98	1.9	1.9		**150**	0.88	**42**	6.41	14.8		918	0.46
5/5/2025	Shallow	10–25	44.56	7.05	37.51	**8.3**	5.0	2.0 U	**240**	2.0 U	**81**	6.62	13.4		760	0.48
9/22/2025	Shallow	10–25	44.56	7.80	36.76	**58**	**69**	4.4	**530**		**100**	6.48	15.5		790	0.13
BSCSS-MW-5R																
8/3/2021	Shallow	10–25	42.00	8.30	33.70	**1,800**	**38**	10 U	**34**	10 U	**2.2**	5.80	17.9	255.4		0.28
9/1/2022	Shallow	10–25	42.00	8.64	33.36	**2,300**	**57**	10 U	**85**	10 U	**4.4**	5.59	16.9	209		0.07
2/20/2023	Shallow	10–25	42.00	8.90	33.10	**1,700**	**50**	10 U	**140**	10 U	**2.3**	6.03	14.9	197.9		0.17
9/20/2023	Shallow	10–25	42.00	8.63	33.37	**2,000**	**48**	0.24	**54**	0.57	**0.94**	5.53	15.0	185.9		0.03
4/9/2024	Shallow	10–25	44.68	7.70	36.98	**810**	**23**	4.0 U	**23**	4.0 U	**0.59**	6.28	12.6		133.7	0.47
9/25/2024	Shallow	10–25	44.68	7.90	36.78	**48**	4.0		13	0.20 U	**0.29**	6.28	15.2		343.5	0.34
5/5/2025	Shallow	10–25	44.68	7.59	37.09	**87**	**16**	1.0 U	9.3	1.0 U	**0.47**	6.42	13.6		490	0.53
9/22/2025	Shallow	10–25	44.68	8.80	35.88	**1,100**	**35**	0.40 U	**19**		**1.0**	6.25	15.4		229	0.31
BSCSS-MW-6																
12/21/2018	Shallow	10–25	47.57	8.79	38.78	**2,700**	**1,000**	1.0 U	**2,600**	40	**26**	5.96	49.4	378		0.23
2/22/2019	Shallow	10–25	47.57	7.79	39.78	**1,800**	**570**	10 U	**1,000**	14	**14**	6.16	42.6	295.1		0.15
5/22/2019	Shallow	10–25	47.57	8.46	39.11	**3,800**	**1,800**	20 U	**750**	20 U	*20 U*	6.14	43.7	407		0.04
7/25/2019	Shallow	10–25	47.57	9.06	38.51	**3,600**	**1,100**	20 U	**490**	20 U	**7.4**	6.16	41.5	401		0.04
10/21/2019	Shallow	10–25	47.57	8.76	38.81	**74**	**38**	10 U	**1,200**	10 U	**3.2**	6.08	31.3	562		0.04
1/22/2020	Shallow	10–25	47.57	7.77	39.80	**9.8**	**5.2**	0.38	**170**	0.91	**74**	6.62	20.9	364.9		
4/17/2020	Shallow	10–25	47.57	8.19	39.38	**23**	**7.4**	1.4	**38**	0.47	**50**	6.46	22.1	360.7		0.12
7/20/2020	Shallow	10–25	47.57	8.28	39.29	0.97	1.1	0.44	**47**	0.43	**58**	6.32	22.7	639		0.25
10/19/2020	Shallow	10–25	47.57	8.83	38.74	2.3	0.61	0.20 U	3.8	0.20 U	**8.2**	6.00	21.5	654		0.11
2/23/2021	Shallow	10–25	47.57	8.23	39.34	0.20 U	0.20 U	0.20 U	10	0.20 U	**14**	5.94	15.4	629		
6/15/2021	Shallow	10–25	47.57	9.37	38.20	0.20 U	0.20 U	0.20 U	1.9	0.20 U	**8.0**	6.27	17.5	726		0.09
9/12/2022	Shallow	10–25	47.57	--	--	**17**	**12**	0.49	11	0.20 U	**0.35**	6.36	18.6	787		0.12
2/20/2023	Shallow	10–25	47.57	--	--	4.0	4.8	0.42	7.9	0.20 U	**3.1**	6.73	14.5	783		0.2
9/14/2023	Shallow	10–25	47.57	--	--	**7.0**	**7.0**	0.42	8.3	0.20 U	**8.1**	6.40	15.3	785		0.23
4/9/2024	Shallow	10–25	44.77	--	--	2.1	4.0	0.35	5.5	0.20 U	**9.4**	6.59	12.9		572	-0.01
9/25/2024	Shallow	10–25	44.77	--	--	0.20 U	0.20 U		0.86	0.20 U	**7.0**	6.69	15.1		663	0.1
5/7/2025	Shallow	10–25	44.77	--	--	0.20 U	0.49	0.20 U	1.2	0.20 U	**3.8**	6.69	14.0		370	0.65
9/24/2025	Shallow	10–25	44.77	--	--	0.20 U	0.49	0.20 U	2.0		**3.1**	6.72	16.2		906	0.13

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						VOCs						Field Parameters				
Analyte						Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	pH	Temperature	Conductivity	Specific Conductance	Dissolved Oxygen
CAS No.						127-18-4	79-01-6	75-35-4	156-59-2	156-60-5	75-01-4	pH	--	--	--	--
MTCA Method A CUL [1]						5.0	5.0	--	16	160	0.20	--	--	--	--	--
Unit						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pH	°C	µS/cm	µS/cm	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)											
BSCSS-MW-7																
5/24/2019	Shallow	10–25	45.96	7.96	38.00	**1,000**	**84**	10 U	**240**	10 U	*10 U*	6.68	13.6	409.5		0.16
6/18/2021	Shallow	10–25	45.96	8.73	37.23	**190**	**35**	2.0 U	**140**	2.0 U	**17**	6.59	19.2	607		0.05
9/28/2022	Shallow	10–25	45.96	8.41	37.55	**2,100**	**220**	10 U	**1,100**	10 U	**130**	6.03	17.5	562.7		0.15
2/21/2023	Shallow	10–25	45.96	7.05	38.91	**1,300**	**210**	10 U	**420**	10 U	**2.6**	6.40	14.6	489.7		0.23
9/15/2023	Shallow	10–25	45.96	8.34	37.62	**5,100**	**300**	20 U	**780**	20 U	**2.7**	6.20	16.3	561.6		0.24
4/9/2024	Shallow	10–25	44.51	7.33	37.18	**1,600**	**230**	10 U	**430**	10 U	**1.9**	6.48	13.3		359.3	0.45
9/25/2024	Shallow	10–25	44.51	8.23	36.28	2.2	2.8		**130**	0.80 U	**18**	6.45	15.2		643	0.41
5/7/2025	Shallow	10–25	44.51	7.90	36.61	**10**	**5.1**	0.40 U	**79**	0.40 U	**13**	6.60	13.4		350	0.65
9/24/2025	Shallow	10–25	44.51	8.23	36.28	2.0 U	2.0 U	2.0 U	**400**		**170**	6.62	15.8		898	0.12
9/24/2025	Shallow	10–25	44.51	8.23	36.28	**5.9**	**6.3**	4.0 U	**420**		**120**					
BSCSS-MW-11																
12/20/2018	Intermediate	25–33	47.68	8.56	39.12	**41**	**12**	1.0 U	4.9	1.0 U	0.20 U	5.72	45.7	287		0.16
2/21/2019	Intermediate	25–33	47.68	7.90	39.78	**17**	**15**	1.0 U	9.6	1.0 U	0.20 U	5.96	47.2	316.3		0.16
5/22/2019	Intermediate	25–33	47.68	8.48	39.20	**75**	**69**	2.3	14	0.77	*0.40 U*	6.13	45.7	468		0.04
7/25/2019	Intermediate	25–33	47.68	9.12	38.56	**39**	**41**	1.9	7.7	0.46	**0.34**	6.20	40.8	407		0.04
10/21/2019	Intermediate	25–33	47.68	8.92	38.76	3.5	3.8	1.0 U	**220**	1.0 U	**1.5**	6.33	27.8	522		0.08
1/22/2020	Intermediate	25–33	47.68	8.09	39.59	2.5	2.7	1.0 U	**230**	1.0 U	**70**	6.66	20.4	388.6		1.1
4/17/2020	Intermediate	25–33	47.68	8.49	39.19	**8.0**	**20**	3.2	**130**	1.4	**140**	6.79	22.5	515.3		0.2
7/20/2020	Intermediate	25–33	47.68	8.74	38.94	0.20 U	0.20 U	0.20 U	1.1	0.20 U	**18**	6.34	23.1	729		0.17
10/19/2020	Intermediate	25–33	47.68	9.00	38.68	**13**	**15**	0.46	**79**	0.51	**30**	6.18	20.2	745		0.08
2/26/2021	Intermediate	25–33	47.68	8.02	39.66	0.40 U	0.92	0.40 U	**22**	0.40 U	**49**	6.27	15.5	651		
6/15/2021	Intermediate	25–33	47.68	9.24	38.44	1.5	**23**	2.8	**49**	1.1	**89**	6.54	17.8	521		0.04
9/28/2022	Intermediate	25–33	47.68	7.50	40.18	0.40 U	0.45	0.40 U	**21**	0.40 U	**48**	6.50	16.5	433.2		0.16
2/20/2023	Intermediate	25–33	47.68	6.10	41.58	0.20 U	0.20 U	0.20 U	5.0	0.20 U	**34**	6.93	14.6	342		0.4
9/14/2023	Intermediate	25–33	47.68	7.51	40.17	0.20 U	0.66	0.35	6.1	0.20 U	**30**	6.79	15.2	391.4		0.16
4/9/2024	Intermediate	25–33	44.75	6.52	38.23	0.20 U	0.59	0.20 U	4.0	0.20 U	**17**	6.92	13.6		309	-0.04
9/24/2024	Intermediate	25–33	44.75	7.12	37.63	0.20 U	0.59		4.4	0.20 U	**19**	6.92	15.3		443.9	0.15
5/7/2025	Intermediate	25–33	44.75	6.73	38.02	0.20 U	0.20 U	0.20 U	3.4	0.20 U	**17**	6.99	14.4		460	0.31
9/22/2025	Intermediate	25–33	44.75	7.37	37.38	0.20 U	0.20 U	0.20 U	5.0		**16**	6.91	15.4		740	0.18
BSCSS-MW-12																
5/24/2019	Intermediate	25–33	45.84	7.92	37.92	**5,400**	**400**	30 U	**780**	30 U	*30 U*	6.25	14.1	383.9		0.3
7/22/2019	Intermediate	25–33	45.84	8.40	37.44	**910**	**240**	5.0 U	**630**	5.0 U	**6.2**	6.12	18.6	672		0.05
10/18/2019	Intermediate	25–33	45.84	9.07	36.77	**360**	**68**	2.0 U	**240**	2.0 U	**0.84**	5.85	16.2	361.6		0.12
1/27/2020	Intermediate	25–33	45.84	7.80	38.04	**260**	**120**	2.0 U	**450**	2.0 U	**1.9**	6.28	15.5	459		0.31
4/21/2020	Intermediate	25–33	45.84	7.64	38.20	**330**	**84**	2.0 U	**52**	2.0 U	**0.82**	6.26	16.1	472.9		0.18
7/22/2020	Intermediate	25–33	45.84	6.45	39.39	**250**	**93**	2.0 U	**85**	2.0 U	**2.7**	6.16	19.1	488		0.19
10/21/2020	Intermediate	25–33	45.84	8.83	37.01	**450**	**81**	2.0 U	**93**	2.0 U	**3.6**	5.86	18.8	456.8		0.17

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						Analyte Class	VOCs						Field Parameters				
						Analyte	Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	pH	Temperature	Conductivity	Specific Conductance	Dissolved Oxygen
						CAS No.	127-18-4	79-01-6	75-35-4	156-59-2	156-60-5	75-01-4	pH	--	--	--	--
						MTCA Method A CUL [1]	5.0	5.0	--	16	160	0.20	--	--	--	--	--
						Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pH	°C	µS/cm	µS/cm	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)												
BSCSS-MW-12 (cont.)																	
3/3/2021	Intermediate	25–33	45.84	8.00	37.84	**650**	**65**	4.0 U	**140**	4.0 U	**20**	5.95	17.4	478.6		
6/15/2021	Intermediate	25–33	45.84	8.77	37.07	**820**	**170**	4.0 U	**180**	4.0 U	**5.1**	6.28	18.5	468.3		0.1
9/27/2022	Intermediate	25–33	45.84	7.90	37.94	**20**	**12**	2.0 U	**330**	2.0 U	**49**	6.22	17.6	1057		0.19
2/20/2023	Intermediate	25–33	45.84	6.55	39.29	**59**	**33**	2.0 U	**130**	2.0 U	**18**	6.52	15.8	855		0.11
9/15/2023	Intermediate	25–33	45.84	7.91	37.93	0.20 U	0.20 U	0.20 U	1.2	0.20 U	**2.5**	6.19	16.1	316.6		0.19
4/9/2024	Intermediate	25–33	44.22	6.98	37.24	0.36	2.9	0.20 U	15	0.20 U	**4.4**	6.33	14.4		454.6	-0.04
9/25/2024	Intermediate	25–33	44.22	7.92	36.30	**27**	**37**		**520**	4.0 U	**90**	6.26	15.2		706	0.32
5/7/2025	Intermediate	25–33	44.22	7.18	37.04	**7.7**	**27**	2.0 U	**390**	2.0 U	**61**	6.41	13.9		480	1.84
9/24/2025	Intermediate	25–33	44.22	7.83	36.39	2.0 U	**21**	2.4	**260**		**75**	6.5	15.1		762	0.1
BSCSS-MW-20R																	
6/22/2021	Intermediate	25–30	43.00	8.32	34.68	**430**	**220**	4.0 U	**230**	12	**40**	6.60	21.4	896		0.07
9/1/2022	Intermediate	25–30	43.00	7.80	35.20	**67**	**96**	6.9	**160**	6.0	**72**	6.48	17.5	405		0.34
2/2/2023	Intermediate	25–30	43.00	6.52	36.48	**150**	**140**	8.1	**120**	6.3	**87**	6.48	15.5	397.1		0.11
9/19/2023	Intermediate	25–30	43.00	7.96	35.04	**60**	**61**	5.7	**74**	3.4	**94**	6.55	15.4	412.1		0.13
4/9/2024	Intermediate	25–30	44.78	6.91	37.87	**69**	**94**	9.0	**45**	3.0	**72**	6.62	13.9		238.5	0.31
9/24/2024	Intermediate	25–30	44.78	7.39	37.39	**99**	**88**		**33**	2.9	**77**	6.62	14.7		356.8	0.29
5/7/2025	Intermediate	25–30	44.78	6.95	37.83	**65**	**66**	13	**40**	2.6	**100**	6.79	13.8		280	1.78
9/22/2025	Intermediate	25–30	44.78	7.82	36.96	**36**	**36**	17	**100**		**130**	6.85	15.4		341	0.42
BSCSS-MW-21R																	
8/3/2021	Shallow	10–15	42.00	8.74	33.26	**7,000**	**260**	10 U	**150**	10 U	*1.0 U*	6.49	19.1	370.2		1.54
8/30/2022	Shallow	10–15	42.00	8.50	33.50	**240**	**15**	1.0 U	**21**	1.0 U	0.13	6.34	21.0	367		0.48
2/3/2023	Shallow	10–15	42.00	7.50	34.50	**16**	1.7	0.20 U	4.2	0.20 U	**0.41**	6.27	14.3	389.3		0.08
9/19/2023	Shallow	10–15	42.00	8.55	33.45	**2,500**	**120**	20 U	**150**	20 U	**1.9**	6.41	15.8	343.5		0.15
4/9/2024	Shallow	10–15	44.71	7.49	37.22	**410**	**26**	2.0 U	**20**	2.0 U	**2.2**	6.64	12.2		215.7	0.46
9/24/2024	Shallow	10–15	44.71	7.45	37.26	**7.4**	1.3		4.1	0.20 U	**0.21**	6.33	15.2		577	0.44
5/5/2025	Shallow	10–15	44.71	7.35	37.36	3.6	1.1	0.20 U	2.4	0.20 U	**0.23**	6.40	13.1		810	1.81
9/22/2025	Shallow	10–15	44.71	8.58	36.13	**1,200**	**170**	0.34	**200**		**14**	6.54	16.7		473	0.12
BSCSS-MW-23																	
12/5/2018	Shallow	6–16	48.03	8.70	39.33	1.1	0.50 U	1.0 U	1.0 U	1.0 U	0.20 U	5.65	14.4	112.4		1.24
2/12/2019	Shallow	6–16	48.03	8.18	39.85	2.1	0.50 U	1.0 U	1.0 U	1.0 U	0.20 U	5.34	11.6	75.1		5.16
6/4/2019	Shallow	6–16	48.03	8.57	39.46	0.94	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	6.13	14.9	113.4		0.87
6/17/2021	Shallow	6–16	48.03	8.91	39.12	0.20 U	0.57	0.20 U	0.20 U	0.20 U	0.020 U	6.04	14.6	191.6		0.15
10/14/2022	Shallow	6–16	48.03	10.45	37.58	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	5.31	16.2	148.1		1.81
2/6/2023	Shallow	6–16	48.03	10.00	38.03	0.35	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	5.88	12.1	216		2.13
9/27/2023	Shallow	6–16	48.03	10.23	37.80	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.30	15.4	126.3		
4/11/2024	Shallow	6–16	48.03	10.44	37.59	0.24	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.86	11.7		115.5	6.16
9/23/2024	Shallow	6–16	49.31	11.25	38.06	0.20 U	0.20 U		0.20 U	0.20 U	0.20 U	5.74	15.7		164.3	4.31
5/6/2025	Shallow	6–16	49.31	10.63	38.68	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.86	14.1		180	3.78
9/23/2025	Shallow	6–16	49.31	11.41	37.90	0.20 U	0.20 U	0.20 U	0.20 U		0.20 U	5.81	15.8		141.8	2.97

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						VOCs						Field Parameters				
Analyte						Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	pH	Temperature	Conductivity	Specific Conductance	Dissolved Oxygen
CAS No.						127-18-4	79-01-6	75-35-4	156-59-2	156-60-5	75-01-4	pH	--	--	--	--
MTCA Method A CUL [1]						5.0	5.0	--	16	160	0.20	--	--	--	--	--
Unit						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pH	°C	µS/cm	µS/cm	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)											
BSCSS-MW-27																
12/12/2018	Shallow	6–16	48.49	10.09	38.40	**170**	0.71	1.0 U	1.0 U	1.0 U	0.20 U	5.17	14.5	133.3		7.04
5/24/2019	Shallow	6–16	48.49	9.65	38.84	**110**	1.0 U	1.0 U	1.0 U	1.0 U	*1.0 U*	5.73	13.1	131.9		8.54
7/16/2019	Shallow	6–16	48.49	10.39	38.10	**91**	0.40 U	0.40 U	0.40 U	0.40 U	0.040 U	4.53	16.3	120.9		6.39
10/18/2019	Shallow	6–16	48.49	10.05	38.44	**130**	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U	5.20	16.0	97.3		7.17
1/29/2020	Shallow	6–16	48.49	8.22	40.27	**90**	1.2	0.40 U	1.5	0.40 U	0.040 U	5.01	12.2	134.2		6.26
4/16/2020	Shallow	6–16	48.49	8.87	39.62	**75**	0.51	0.40 U	0.89	0.40 U	0.040 U	5.47	14.6	139.6		3.53
7/27/2020	Shallow	6–16	48.49	9.95	38.54	**60**	0.40 U	0.40 U	0.40 U	0.40 U	0.040 U	5.20	17.1	147.1		3.75
10/19/2020	Shallow	6–16	48.49	9.98	38.51	**69**	0.40 U	0.40 U	0.40 U	0.40 U	0.040 U	4.95	16.9	105.6		3.67
2/26/2021	Shallow	6–16	48.49	7.87	40.62	**54**	0.40 U	0.40 U	0.40 U	0.40 U	0.040 U	4.92	11.8	88		0.48
6/17/2021	Shallow	6–16	48.49	9.87	38.62	**39**	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	5.62	16.4	85.3		1.55
9/22/2022	Shallow	6–16	48.49	10.22	38.27	**35**	**6.4**	0.20 U	1.4	0.20 U	0.020 U	5.15	17.2	185.9		0.59
2/21/2023	Shallow	6–16	48.49	8.59	39.90	**25**	**6.7**	0.20 U	8.1	0.20 U	0.020 U	5.31	10.6	139.1		0.28
9/7/2023	Shallow	6–16	48.49	10.33	38.16	**19**	**7.6**	0.20 U	10	0.20 U	0.20 U	5.41	16.0	184.8		0.32
4/11/2024	Shallow	6–16	48.49	9.15	39.34	**29**	1.6	0.20 U	2.6	0.20 U	0.20 U	5.57	10.6		148.4	0.22
9/25/2024	Shallow	6–16	47.49	10.01	37.48	**33**	2.9		2.1	0.20 U	0.20 U	5.39	15.2		184.9	0.69
5/6/2025	Shallow	6–16	47.49	9.10	38.39	**30**	0.98	0.20 U	1.2	0.20 U	0.20 U	5.56	11.3		160	1.95
9/23/2025	Shallow	6–16	47.49	10.28	37.21	**24**	**8.4**	0.20 U	6.8		0.20 U	5.68	15.8		269	0.82
BSCSS-MW-29																
12/12/2018	Deep	45–55	48.50	10.25	38.25	1.1	0.50 U	1.0 U	1.0 U	1.0 U	0.20 U	7.05	13.8	276.8		0.15
6/4/2019	Deep	45–55	48.50	10.08	38.42	0.26	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	7.40	16.3	265.3		0.25
7/16/2019	Deep	45–55	48.50	10.61	37.89	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	6.88	16.2	274.4		0.11
10/18/2019	Deep	45–55	48.50	10.48	38.02	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	6.99	14.5	207.7		0.11
1/29/2020	Deep	45–55	48.50	9.61	38.89	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	7.29	13.7	249.5		0.04
4/16/2020	Deep	45–55	48.50	9.71	38.79	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	7.23	16.2	312.9		0.31
7/24/2020	Deep	45–55	48.50	--	--	**9.0**	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U					
8/10/2020	Deep	45–55	48.50	10.54	37.96	1.9	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	6.28	17.5	236.5		0.14
10/19/2020	Deep	45–55	48.50	10.40	38.10	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	6.84	15.6	263.5		0.17
2/26/2021	Deep	45–55	48.50	9.36	39.14	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	6.56	13.9	255.1		
6/17/2021	Deep	45–55	48.50	10.43	38.07	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	7.25	16.2	266.3		0.12
9/22/2022	Deep	45–55	48.50	10.10	38.40	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	6.72	16.2	270.8		0.21
2/10/2023	Deep	45–55	48.50	8.71	39.79	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	6.87	13.6	264.3		0.11
9/7/2023	Deep	45–55	48.50	10.20	38.30	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	6.89	14.8	269.3		0.15
9/23/2024	Deep	45–55	48.03	10.61	37.42	0.20 U	0.20 U		0.20 U	0.20 U	0.20 U	7.24	14.3		260.9	0.36
5/7/2025	Deep	45–55	48.03	10.05	37.98	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	7.38	13.3		190	0.71
9/23/2025	Deep	45–55	48.03	10.73	37.30	0.20 U	0.20 U	0.20 U	0.20 U		0.20 U	7.52	14.4		227	0.1

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						VOCs						Field Parameters				
Analyte						Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	pH	Temperature	Conductivity	Specific Conductance	Dissolved Oxygen
CAS No.						127-18-4	79-01-6	75-35-4	156-59-2	156-60-5	75-01-4	pH	--	--	--	--
MTCA Method A CUL [1]						5.0	5.0	--	16	160	0.20	--	--	--	--	--
Unit						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pH	°C	µS/cm	µS/cm	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)											
BSCSS-MW-34																
12/11/2018	Deep	40–50	47.19	8.50	38.69	1.0 U	0.50 U	1.0 U	1.0 U	1.0 U	0.20 U	5.92	22.9	284.6		0.09
2/21/2019	Deep	40–50	47.19	7.59	39.60	1.3	0.50 U	1.0 U	1.5	1.0 U	0.20 U	5.95	27.5	255.8		0.22
6/3/2019	Deep	40–50	47.19	8.28	38.91	1.3	0.20 U	0.20 U	3.2	0.20 U	0.20 U	6.16	32.4	263.9		0.19
6/15/2021	Deep	40–50	47.19	8.65	38.54	0.30	0.34	0.20 U	0.44	0.20 U	0.11	6.32	19.0	183.8		0.11
9/1/2022	Deep	40–50	47.19	7.70	39.49	0.20	0.20 U	0.20 U	0.20	0.20 U	**0.67**	6.25	18.7	276		0.42
2/3/2023	Deep	40–50	47.19	6.65	40.54	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**2.6**	6.19	15.3	305.8		0.09
9/14/2023	Deep	40–50	47.19	7.55	39.64	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	6.01	15.8	252.7		1.03
4/9/2024	Deep	40–50	44.48	6.65	37.83	0.35	0.33	0.20 U	0.28	0.20 U	**0.57**	6.26	13.7		284.2	0.02
9/24/2024	Deep	40–50	44.48	7.41	37.07	0.25	0.28		0.25	0.20 U	**0.37**	6.20	14.9		343.5	0.3
5/5/2025	Deep	40–50	44.48	6.67	37.81	0.58	0.42	0.20 U	0.32	0.20 U	**0.65**	6.42	14.0		350	0.8
9/22/2025	Deep	40–50	44.48	7.42	37.06	0.65	0.50	0.20 U	0.37		**0.77**	6.37	15.6		360.2	0.18
BSCSS-MW-39																
12/17/2018	Deep	40–50	44.89	6.33	38.56	2.3	2.6	1.0 U	6.8	1.0 U	0.20 U	6.39	24.1	225.4		0.15
3/13/2019	Deep	40–50	44.89	6.32	38.57	1.0 U	0.50 U	1.0 U	2.0	1.0 U	0.20 U	6.08	26.6	63.3		1.33
5/29/2019	Deep	40–50	44.89	6.49	38.40	0.33	0.34	0.20 U	1.2	0.20 U	0.20 U	6.61	28.4	219.2		0.14
7/23/2019	Deep	40–50	44.89	7.02	37.87	0.52	0.63	0.20 U	1.3	0.20 U	0.020 U	6.33	28.2	215.5		0.25
10/24/2019	Deep	40–50	44.89	6.94	37.95	0.52	0.52	0.20 U	1.6	0.20 U	0.020 U	6.10	26.2	250		0.24
1/28/2020	Deep	40–50	44.89	5.53	39.36	0.20 U	0.20 U	0.20 U	1.8	0.20 U	0.020 U	6.50	20.2	272.1		0.21
4/27/2020	Deep	40–50	44.89	6.17	38.72	3.1	2.2	0.20 U	8.9	0.20 U	0.024	6.43	21.2	236.2		4.4
7/29/2020	Deep	40–50	44.89	6.92	37.97	0.20 U	0.20		0.77		0.042	6.49	22.5	335.3		0.13
10/22/2020	Deep	40–50	44.89	6.99	37.90	1.3	0.42	0.20 U	1.2	0.20 U	0.063	6.12	19.1	274.8		0.36
3/5/2021	Deep	40–50	44.89	--	--	**70**	**10**	0.40 U	1.1	0.40 U	0.040 U					
3/12/2021	Deep	40–50	44.89	6.29	38.60	**46**	**7.7**	0.20 U	1.5	0.20 U	0.020 U	6.79	17.5	259.6		0.43
6/21/2021	Deep	40–50	44.89	7.34	37.55	**280**	**40**	2.0 U	2.0 U	2.0 U	0.20 U	6.57	20.9	296.9		0.13
9/29/2022	Deep	40–50	44.89	7.86	37.03	**270**	**61**	2.0 U	2.0 U	2.0 U	**0.85**	6.16	16.6	386.5		0.19
2/6/2023	Deep	40–50	44.89	7.15	37.74	**210**	**60**	1.0 U	1.0 U	1.0 U	0.10	6.39	14.1	401.5		0.28
9/26/2023	Deep	40–50	44.89	7.68	37.21	**460**	**100**	2.0 U	2.0 U	2.0 U	0.20 U	6.13	15.6	418.1		0.12
4/11/2024	Deep	40–50	44.89	6.77	38.12	**220**	**56**	2.0 U	2.0 U	2.0 U	0.20 U	6.54	14.0		220	0.35
9/26/2024	Deep	40–50	44.54	7.64	36.90	**200**	**53**		1.0 U	1.0 U	*1.0 U*	6.53	15.6		377.2	0.35
5/6/2025	Deep	40–50	44.54	7.00	37.54	**120**	**40**	0.80 U	0.80 U	0.80 U	0.20 U	6.76	14.2		310	0.2
9/23/2025	Deep	40–50	44.54	7.71	36.83	0.20 U	0.20 U	0.20 U	3.3		**0.54**	6.68	15.2		400	0.11
BSCSS-MW-40																
12/17/2018	Shallow	15–25	45.00	6.28	38.72	**210**	**46**	1.0 U	**57**	1.0 U	0.20 U	6.43	34.3	69.2		2.39
3/13/2019	Shallow	15–25	45.00	6.29	38.71	**210**	**150**	1.5	**750**	1.3	0.20 U	6.08	29.5	63.3		1.33
5/29/2019	Shallow	15–25	45.00	6.49	38.51	**560**	**600**	20 U	**4,300**	20 U	*20 U*	6.41	30.7	268.1		0.23
7/23/2019	Shallow	15–25	45.00	7.00	38.00	**530**	**380**	20 U	**4,700**	20 U	**11**	6.29	30.5	319.8		0.05
10/25/2019	Shallow	15–25	45.00	6.82	38.18	**65**	**84**	10 U	**1,500**	10 U	**1.6**	5.82	23.7	163.6		0.06
1/28/2020	Shallow	15–25	45.00	5.51	39.49	**150**	**130**	10 U	**2,300**	10 U	**1,600**	6.89	21.2	368.4		0.01

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						VOCs						Field Parameters				
Analyte						Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	pH	Temperature	Conductivity	Specific Conductance	Dissolved Oxygen
CAS No.						127-18-4	79-01-6	75-35-4	156-59-2	156-60-5	75-01-4	pH	--	--	--	--
MTCA Method A CUL [1]						5.0	5.0	--	16	160	0.20	--	--	--	--	--
Unit						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pH	°C	µS/cm	µS/cm	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)											
BSCSS-MW-40 (cont.)																
4/27/2020	Shallow	15–25	45.00	6.48	38.52	*10 U*	*10 U*	10 U	**150**	10 U	**930**	6.53	19.9	239.8		0.09
7/29/2020	Shallow	15–25	45.00	7.01	37.99	0.20 U	0.20 U		0.52		**26**	6.03	22.2	565		0.14
10/29/2020	Shallow	15–25	45.00	7.04	37.96	**7.7**	3.8	2.0 U	**93**	2.0 U	**490**	6.13	19.7	482.7		0.17
3/5/2021	Shallow	15–25	45.00	--	--	**130**	**69**	3.5	**210**	2.0 U	**440**					
3/12/2021	Shallow	15–25	45.00	6.50	38.50	**160**	**93**	4.8	**280**	2.1	**320**	6.51	16.0	449.6		0.88
6/21/2021	Shallow	15–25	45.00	6.98	38.02	**19**	**64**	3.9	**110**	1.2	**190**	6.51	19.0	516		0.1
9/29/2022	Shallow	15–25	45.00	8.18	36.82	**11**	**510**	120	**240**	10 U	**150**	6.12	16.8	412.4		0.18
2/6/2023	Shallow	15–25	45.00	6.40	38.60	**6.3**	**340**	26	**160**	3.4	**73**	6.22	14.3	220.5		1.12
9/26/2023	Shallow	15–25	45.00	7.44	37.56	4.0 U	**43**	23	**470**	4.0 U	**140**	6.31	15.7	448.5		0.21
4/11/2024	Shallow	15–25	45.00	7.73	37.27	**1,900**	**3,700**	88	**450**	20 U	**130**	6.69	12.8		283.2	0.96
9/26/2024	Shallow	15–25	44.57	9.60	34.97	**890**	**1,600**		**330**	10 U	**97**	6.46	15.3		401.6	0.4
5/6/2025	Shallow	15–25	44.57	6.95	37.62	**3,300**	**3,400**	89	**560**	20 U	**190**	6.57	13.1		360	1.56
9/23/2025	Shallow	15–25	44.57	7.54	37.03	**630**	**1,100**	66	**510**		**230**	6.67	16.0		448	0.18
9/23/2025	Shallow	15–25	44.57	7.54	37.03	**490**	**830**	49	**360**		**190**					
BSCSS-MW-42																
12/14/2018	Intermediate	30–45	--	--	--	**460**	**23**	1.0 U	1.9	1.0 U	0.20 U					
1/3/2019	Intermediate	30–45	--	--	--	1.0 U	0.50 U	1.0 U	1.0 U	1.0 U	0.20 U					
3/18/2019	Intermediate	30–45	--	8.79	--	1.0 U	0.50 U	1.0 U	1.0 U	1.0 U	0.20 U	6.63	32.8	155.4		0.06
6/5/2019	Intermediate	30–45	--	9.11	--	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	6.92	22.9	216.9		0.13
7/29/2019	Intermediate	30–45	--	9.65	--	0.20 U	0.20 U	0.20 U	0.72	0.20 U	0.053	6.49	26.4	713		0.05
10/22/2019	Intermediate	30–45	--	9.29	--	0.20 U	0.20 U	0.20 U	1.9	0.20 U	0.056	6.04	18.3	254		0.1
1/29/2020	Intermediate	30–45	--	8.49	--	0.20 U	0.20 U	0.20 U	**20**	0.20 U	**3.3**	6.52	14.1	454.1		0.02
4/16/2020	Intermediate	30–45	--	8.88	--	0.20 U	0.20 U	0.20 U	**26**	0.20 U	**27**	6.46	14.7	567.6		0.47
7/24/2020	Intermediate	30–45	--	9.08	--	0.20 U	0.20 U	0.20 U	5.3	0.20 U	**15**	6.20	16.4	570.9		0.23
10/26/2020	Intermediate	30–45	--	9.26	--	0.42	0.24	0.20 U	9.9	0.20 U	**4.5**	6.18	15.6	549		0.25
3/1/2021	Intermediate	30–45	--	8.33	--	0.20 U	0.20 U	0.20 U	1.7	0.20 U	**1.4**	5.86	14.4	626.1		
6/11/2021	Intermediate	30–45	--	9.37	--	0.20 U	0.23	0.20 U	1.4	0.20 U	**1.4**	5.98	14.5	614		0.07
9/29/2022	Intermediate	30–45	--	12.63	--	0.20 U	0.20 U	0.20 U	0.27	4.7	**0.31**	5.79	15.9	310		0.23
2/8/2023	Intermediate	30–45	--	10.73	--	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.72**	6.17	12.8	316.6		0.32
9/22/2023	Intermediate	30–45	--	12.15	--	0.20 U	0.20 U	0.20 U	0.97	0.20 U	**0.65**	6.15	14.5	309.2		0.07
4/10/2024	Intermediate	30–45	--	11.19	--	0.20 U	0.20 U	0.20 U	0.62	0.20 U	**0.60**	6.36	13.5		190.7	0.32
9/26/2024	Intermediate	30–45	50.11	11.97	38.14	1.0 U	0.20 U		0.66	0.20 U	**0.73**	6.39	14.7		281.1	0.48
5/6/2025	Intermediate	30–45	50.11	10.40	39.71	3.8	1.5	0.20 U	10	0.20 U	**0.99**	6.70	12.9		310	0.72
9/23/2025	Intermediate	30–45	50.11	12.00	38.11	0.20 U	0.20 U	0.20 U	0.56		**0.55**	6.61	15.1		288	0.35
BSCSS-MW-43R																
6/23/2021	Shallow	10–25	47.00	7.65	39.35	**15**	2.4	0.20 U	**22**	0.21	**4.9**	6.48	15.9	482.9		0.13
9/29/2022	Shallow	10–25	47.00	11.22	35.78	4.3	2.2	0.20 U	9.0	0.20 U	**0.59**	5.99	16.5	388.6		0.22
2/8/2023	Shallow	10–25	47.00	7.89	39.11	**8.7**	2.5	0.20 U	6.4	0.20 U	**0.73**	6.51	12.2	493.7		0.69
9/22/2023	Shallow	10–25	47.00	10.50	36.50	2.6	2.6	0.20 U	6.9	0.20 U	**0.24**	6.30	15.3	375.6		0.04
4/10/2024	Shallow	10–25	47.00	9.47	37.53	**6.1**	3.9	0.20 U	14	0.20 U	**1.7**	6.78	12.1		361.6	0.45

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						VOCs						Field Parameters				
Analyte						Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	pH	Temperature	Conductivity	Specific Conductance	Dissolved Oxygen
CAS No.						127-18-4	79-01-6	75-35-4	156-59-2	156-60-5	75-01-4	pH	--	--	--	--
MTCA Method A CUL [1]						5.0	5.0	--	16	160	0.20	--	--	--	--	--
Unit						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pH	°C	µS/cm	µS/cm	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)											
BSCSS-MW-43R (cont.)																
9/26/2024	Shallow	10–25	49.79	10.99	38.80	4.2	2.1		12	0.20 U	**0.81**	6.41	15.5		408.2	0.3
5/6/2025	Shallow	10–25	49.79	11.29	38.50	0.20 U	0.20 U	0.20 U	0.42	0.20 U	**0.53**	6.59	13.0		260	1.55
9/23/2025	Shallow	10–25	49.79	10.81	38.98	4.3	2.4	0.20 U	2.5		0.20 U	6.62	17.1		531	0.59
BSCSS-MW-44R																
6/23/2021	Intermediate	20–30	44.00	8.07	35.93	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.82**	6.60	19.2	395.7		0.09
9/27/2022	Intermediate	20–30	44.00	8.14	35.86	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.56**	6.18	19.2	417.8		0.16
2/8/2023	Intermediate	20–30	44.00	6.70	37.30	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.72**	6.45	14.0	430.2		0.11
9/22/2023	Intermediate	20–30	44.00	8.15	35.85	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.47**	6.31	14.8	489.3		0.05
9/26/2024	Intermediate	20–30	44.85	7.79	37.06	3.7	2.8		0.20 U	0.20 U	**0.47**	6.42	15.3		396.5	0.44
5/6/2025	Intermediate	20–30	44.85	7.13	37.72	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.44**	6.59	13.6		360	0.21
9/23/2025	Intermediate	20–30	44.85	7.77	37.08	0.20 U	0.20 U	0.20 U	0.20 U		**0.46**	6.59	15.5		428	0.17
BSCSS-MW-45R																
6/23/2021	Shallow	7–17	43.00	8.07	34.93	**15**	3.5	0.20 U	4.0	0.20 U	**0.92**	6.66	22.1	514		0.02
9/1/2022	Shallow	7–17	43.00	7.95	35.05	**11**	2.7	0.20 U	0.59	0.20 U	0.020 U	6.40	21.3	630		3.17
2/2/2023	Shallow	7–17	43.00	5.54	37.46	3.0	0.96	0.20 U	0.69	0.20 U	0.020 U	6.75	13.7	543		0.39
9/19/2023	Shallow	7–17	43.00	8.04	34.96	2.1	4.2	0.20 U	2.0	0.20 U	0.20 U	6.26	16.4	448		0.21
4/9/2024	Shallow	7–17	44.55	5.67	38.88	0.20 U	0.20 U	0.20 U	3.8	0.20 U	0.20 U	6.64	12.2		1104	0.51
9/24/2024	Shallow	7–17	44.55	7.85	36.70	0.20 U	0.20 U		3.0	0.20 U	**9.4**	6.62	16.1		1255	0.09
5/5/2025	Shallow	7–17	44.55	7.23	37.32	0.20 U	0.20 U	0.20 U	0.43	0.20 U	**1.9**	6.76	13.5		640	0.59
9/22/2025	Shallow	7–17	44.55	7.86	36.69	0.20 U	0.20 U	0.20 U	0.20 U		**0.49**	6.78	17.1		992	0.12
BSCSS-HZ-MW-1																
12/19/2018	Shallow	5–15	42.00	6.94	35.06	**7.8**	0.50 U	1.0 U	1.0 U	1.0 U	0.20 U	6.21	13.5	159.8		5
5/30/2019	Shallow	5–15	42.00	6.81	35.19	**11**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	6.55	14.0	190.5		7.81
7/29/2019	Shallow	5–15	42.00	7.20	34.80	**14**	0.20 U	0.20 U	1.1	0.20 U	0.020 U	6.17	17.3	189.6		4.08
10/21/2019	Shallow	5–15	42.00	7.45	34.55	**15**	0.20 U	0.20 U	0.61	0.20 U	0.020 U	5.65	15.9	172.5		4.58
1/24/2020	Shallow	5–15	42.00	6.39	35.61	**5.9**	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	5.85	12.6	173.1		24
4/14/2020	Shallow	5–15	42.00	6.33	35.67	**33**	1.1	0.20 U	1.2	0.20 U	0.15	6.20	12.9	301.4		1.14
7/17/2020	Shallow	5–15	42.00	6.88	35.12	**40**	2.6	0.20 U	4.5	0.20 U	**2.1**	5.91	17.9	305		0.48
10/27/2020	Shallow	5–15	42.00	7.42	34.58	**8.6**	0.53	0.20 U	3.2	0.20 U	**0.89**	6.50	16.6	295.6		
3/4/2021	Shallow	5–15	42.00	5.34	36.66	**11**	3.6	1.0 U	**120**	1.0 U	**3.1**	6.24	12.4	334.2		1.14
6/15/2021	Shallow	5–15	42.00	7.15	34.85	**42**	**5.3**	0.40 U	13	0.40 U	**0.56**	5.93	15.8	283.3		0.86
9/12/2022	Shallow	5–15	42.00	9.90	32.10	2.4	3.2	0.40 U	**31**	0.40 U	**2.8**	6.78	19.4	520.6		8.83
2/15/2023	Shallow	5–15	42.00	8.64	33.36	3.7	3.3	0.40 U	**67**	0.52	**19**	6.05	13.3	749		0.19
9/20/2023	Shallow	5–15	42.00	9.81	32.19	2.7	2.2	0.27	**110**	0.68	**17**	6.17	15.2	1052		0.27
4/10/2024	Shallow	5–15	43.71	8.81	34.90	0.76	1.0	0.20 U	**44**	0.63	**21**	6.38	12.4		1209	0.39
9/24/2024	Shallow	5–15	43.71	8.94	34.77	0.43	0.52		**24**	0.49	**14**	6.34	15.1		1177	0.43
5/6/2025	Shallow	5–15	43.71	8.60	35.11	0.32	0.47	0.20 U	8.7	0.34	**8.8**	6.45	12.9		770	1.89
9/24/2025	Shallow	5–15	43.71	9.65	34.06	0.20 U	0.20 U	0.20 U	6.3		**6.5**	6.54	15.5		1,110	1.43

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						VOCs						Field Parameters				
Analyte						Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	pH	Temperature	Conductivity	Specific Conductance	Dissolved Oxygen
CAS No.						127-18-4	79-01-6	75-35-4	156-59-2	156-60-5	75-01-4	pH	--	--	--	--
MTCA Method A CUL [1]						5.0	5.0	--	16	160	0.20	--	--	--	--	--
Unit						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pH	°C	µS/cm	µS/cm	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)											
BSCSS-HZ-MW-14D																
12/13/2018	Intermediate	30–40	42.78	6.70	36.08	**44**	3.3	1.0 U	14	1.0 U	0.20 U	5.87	14.9	523.1		0.07
5/21/2019	Intermediate	30–40	42.78	6.16	36.62	**65**	2.9	0.20 U	12	0.20 U	0.20 U	6.09	14.7	500.3		0.06
7/29/2019	Intermediate	30–40	42.78	6.92	35.86	**100**	4.7	0.80 U	**28**	0.80 U	**0.30**	5.84	19.6	454.8		0.22
10/16/2019	Intermediate	30–40	42.78	7.70	35.08	**190**	**7.9**	1.0 U	**48**	1.0 U	**0.51**	6.13	16.3	443.8		0.02
1/22/2020	Intermediate	30–40	42.78	5.98	36.80	**400**	**24**	2.0 U	**140**	2.0 U	**1.1**	5.99	13.0	453.7		2.1
4/15/2020	Intermediate	30–40	42.78	6.14	36.64	**400**	**24**	2.0 U	**110**	2.0 U	**0.76**	6.13	14.2	443.4		0.28
7/21/2020	Intermediate	30–40	42.78	6.78	36.00	**210**	**15**	1.0 U	**61**	1.0 U	**0.35**	5.86	18.0	415.7		0.32
10/28/2020	Intermediate	30–40	42.78	7.34	35.44	**110**	**9.9**	0.80 U	**27**	0.80 U	**0.91**	5.62	15.7	370.9		0.25
3/4/2021	Intermediate	30–40	42.78	5.84	36.94	**110**	**12**	1.0 U	**35**	1.0 U	**2.4**	6.08	14.8	347.8		0.46
6/15/2021	Intermediate	30–40	42.78	6.88	35.90	**56**	**9.7**	0.40 U	**27**	0.78	**3.0**	5.97	17.9	320.2		0.38
9/6/2022	Intermediate	30–40	42.78	9.30	33.48	**15**	2.1	0.40 U	**35**	0.40 U	**14**	5.95	17.9	532.3		0.08
2/3/2023	Intermediate	30–40	42.78	8.36	34.42	**8.5**	2.3	0.24	**34**	0.30	**6.7**	6.07	15.8	515.3		0.1
9/21/2023	Intermediate	30–40	42.78	9.60	33.18	2.3	3.4	0.30	**31**	0.28	**2.5**	6.04	15.8	474.2		0.12
4/9/2024	Intermediate	30–40	44.49	8.55	35.94	3.8	2.9	0.34	**26**	0.23	**3.9**	6.17	14.7		280.5	0.34
9/24/2024	Intermediate	30–40	44.49	9.51	34.98	2.5	3.8		**24**	0.26	**1.8**	6.23	15.4		621	0.18
5/6/2025	Intermediate	30–40	44.49	9.02	35.47	1.3	2.1	0.20 U	**18**	0.22	**1.8**	6.38	14.6		450	0.18
9/23/2025	Intermediate	30–40	44.49	9.55	34.94	1.1	2.2	0.20 U	13		**1.4**	6.44	15.7		585	0.11
BSCSS-HZ-MW-14S																
12/13/2018	Shallow	5–15	42.77	6.23	36.54	**240**	**7.3**	1.0 U	6.1	1.0 U	0.20 U	6.11	15.5	327.3		0.17
5/21/2019	Shallow	5–15	42.77	6.43	36.34	**240**	**7.0**	2.0 U	3.2	2.0 U	*2.0 U*	6.47	14.7	339.2		0.11
7/25/2019	Shallow	5–15	42.77	6.31	36.46	**160**	**6.8**	1.0 U	7.0	1.0 U	0.10 U	6.15	20.8	303.6		0.23
10/16/2019	Shallow	5–15	42.77	6.99	35.78	**78**	**5.9**	0.40 U	3.6	0.40 U	0.040 U	6.41	18.7	295.1		0.05
1/22/2020	Shallow	5–15	42.77	5.65	37.12	**23**	4.2	0.20 U	15	0.20 U	0.069	6.31	11.6	265		2.22
4/15/2020	Shallow	5–15	42.77	5.76	37.01	**55**	3.5	0.40 U	4.3	0.40 U	**3.0**	6.12	13.0	320.4		0.24
7/21/2020	Shallow	5–15	42.77	7.45	35.32	**160**	**15**	1.0 U	**88**	1.0 U	**26**	6.04	18.7	315.7		0.25
10/23/2020	Shallow	5–15	42.77	7.13	35.64	**270**	**37**	2.0 U	**120**	2.0 U	**34**	5.76	17.0	280.3		0.17
3/3/2021	Shallow	5–15	42.77	4.33	38.44	**210**	**22**	2.0 U	**28**	2.0 U	**15**	5.88	13.1	255.7		0.57
6/15/2021	Shallow	5–15	42.77	6.80	35.97	**550**	**120**	4.0 U	**260**	4.0 U	**17**	6.08	18.3	285.2		0.44
9/6/2022	Shallow	5–15	42.77	9.45	33.32	**250**	**100**	4.0 U	**60**	4.0 U	**0.42**	6.03	17.9	287		0.04
2/21/2023	Shallow	5–15	42.77	8.50	34.27	**1,000**	**170**	10 U	**220**	10 U	**23**	5.98	13.3	319.4		0.42
9/21/2023	Shallow	5–15	42.77	9.63	33.14	**1,200**	**250**	10 U	**270**	10 U	**34**	5.91	15.9	344		0.09
4/9/2024	Shallow	5–15	44.61	8.70	35.91	**710**	**180**	8.0 U	**150**	8.0 U	**15**	6.10	12.9		236.1	0.52
9/24/2024	Shallow	5–15	44.61	9.23	35.38	**170**	**40**		**23**	1.0 U	*1.0 U*	6.22	15.6		342	0.32
5/6/2025	Shallow	5–15	44.61	9.13	35.48	**1,400**	**190**	8.0 U	**210**	8.0 U	**3.8**	6.42	13.0		300	0.68
9/23/2025	Shallow	5–15	44.61	9.76	34.85	**1,600**	**170**	8.0 U	**270**		*8.0 U*	6.44	16.0		540	0.44
BSCSS-HZ-MW-15D																
12/27/2018	Intermediate	20–30	42.00	4.23	37.77	**6,400**	**230**	50 U	**200**	50 U	*10 U*	5.95		315.5		0.09
6/4/2019	Intermediate	20–30	42.00	6.11	35.89	**10,000**	**390**	100 U	**260**	100 U	*100 U*	6.25	15.1	337.4		0.12
7/23/2019	Intermediate	20–30	42.00	6.83	35.17	**9,200**	**390**	50 U	**340**	50 U	*5.0 U*	5.93	16.9	324		0.24
10/17/2019	Intermediate	20–30	42.00	7.02	34.98	**7,700**	**410**	50 U	**360**	50 U	*5.0 U*	5.83	15.1	292.1		0.12
1/22/2020	Intermediate	20–30	42.00	6.05	35.95	**4,000**	**280**	20 U	**410**	20 U	*2.0 U*	6.21	12.3	430		0.11
4/15/2020	Intermediate	20–30	42.00	6.67	35.33	**3,300**	**240**	20 U	**400**	20 U	*2.0 U*	6.19	14.9	505.3		0.27

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Analyte Class						VOCs						Field Parameters				
Analyte						Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	pH	Temperature	Conductivity	Specific Conductance	Dissolved Oxygen
CAS No.						127-18-4	79-01-6	75-35-4	156-59-2	156-60-5	75-01-4	pH	--	--	--	--
MTCA Method A CUL [1]						5.0	5.0	--	16	160	0.20	--	--	--	--	--
Unit						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pH	°C	µS/cm	µS/cm	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)											
BSCSS-HZ-MW-15D (cont.)																
7/22/2020	Intermediate	20–30	42.00	6.45	35.55	**2,000**	**170**	10 U	**340**	10 U	*1.0 U*	6.03	17.1	466.5		0.33
10/23/2020	Intermediate	20–30	42.00	6.79	35.21	**2,200**	**170**	10 U	**330**	10 U	**1.3**	5.73	14.4	399.9		0.21
3/3/2021	Intermediate	20–30	42.00	6.23	35.77	**2,200**	**190**	10 U	**200**	10 U	**4.3**	6.00	14.1	383.7		
6/22/2021	Intermediate	20–30	42.00	5.80	36.20	**3,000**	**230**	20 U	**290**	20 U	**4.3**	6.27	17.9	418.1		0.11
9/8/2022	Intermediate	20–30	42.00	9.44	32.56	**2,700**	**130**	10 U	**150**	10 U	**3.0**	5.78	15.6	423.6		0.12
2/21/2023	Intermediate	20–30	42.00	8.30	33.70	**4,400**	**190**	10 U	**210**	10 U	**1.1**	6.11	14.0	437.7		0.16
9/20/2023	Intermediate	20–30	42.00	9.68	32.32	**2,200**	**160**	20 U	**160**	20 U	**0.82**	6.08	14.8	436		0.2
4/10/2024	Intermediate	20–30	44.60	8.61	35.99	**1,500**	**220**	8.0 U	**260**	8.0 U	**0.84**	6.29	13.2		347.1	0.49
9/24/2024	Intermediate	20–30	44.60	9.58	35.02	**1,100**	**450**		**380**	8.0 U	*8.0 U*	6.06	14.3		524	0.45
5/5/2025	Intermediate	20–30	44.60	9.10	35.50	**1,000**	**590**	4.0 U	**240**	4.0 U	**0.49**	6.23	13.9		430	0.23
9/22/2025	Intermediate	20–30	44.60	9.69	34.91	*8.0 U*	**12**	8.0 U	**1,200**		*8.0 U*	6.31	15.0		657	0.15
BSCSS-HZ-MW-15S																
12/27/2018	Shallow	10–15	42.07	4.40	37.67	**12**	0.50 U	1.0 U	1.0 U	1.0 U	0.20 U	6.07		278.8		0.68
6/4/2019	Shallow	10–15	42.07	4.92	37.15	**8.9**	0.34	0.20 U	0.20 U	0.20 U	0.20 U	6.32	15.9	256.6		0.33
7/23/2019	Shallow	10–15	42.07	5.66	36.41	**11**	0.41	0.20 U	0.20 U	0.20 U	0.020 U	6.06	18.7	227.5		0.38
10/17/2019	Shallow	10–15	42.07	5.87	36.20	**9.8**	0.39	0.20 U	0.20 U	0.20 U	0.020 U	6.01	16.3	202.4		0.23
1/22/2020	Shallow	10–15	42.07	4.02	38.05	4.2	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	5.99	10.4	295.5		6
4/15/2020	Shallow	10–15	42.07	4.51	37.56	3.6	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	6.34	13.6	267		1.43
7/22/2020	Shallow	10–15	42.07	5.85	36.22	4.7	0.20	0.20 U	0.35	0.20 U	0.020 U	6.07	18.1	239.2		1.19
10/23/2020	Shallow	10–15	42.07	6.23	35.84	4.6	0.27	0.20 U	11	0.20 U	**0.43**	5.66	16.3	279.2		0.35
3/3/2021	Shallow	10–15	42.07	4.82	37.25	3.8	0.43	0.20 U	10	0.20 U	**1.2**	5.87	11.3	246.1		
6/22/2021	Shallow	10–15	42.07	5.77	36.30	**5.1**	0.62	0.20 U	**19**	0.20 U	**1.4**	6.24	19.2	254.9		0.38
9/6/2022	Shallow	10–15	42.07	9.30	32.77	1.6	0.89	0.40 U	**71**	1.2	**4.8**	6.04	19.1	938		0.16
2/15/2023	Shallow	10–15	42.07	7.95	34.12	1.8	0.84	0.20 U	**27**	0.63	**2.9**	6.04	12.9	632.6		0.3
9/20/2023	Shallow	10–15	42.07	9.33	32.74	1.6	0.69	0.20 U	9.9	0.28	**0.68**	6.11	15.3	507.5		0.04
4/9/2024	Shallow	10–15	44.73	8.33	36.40	1.2	0.72	0.20 U	5.3	0.20 U	**0.32**	6.27	12.0		303.5	0.34
9/23/2024	Shallow	10–15	44.73	8.82	35.91	**9.8**	4.0		9.0	0.20 U	**0.29**	6.25	15.1		6.29	0.53
5/5/2025	Shallow	10–15	44.73	8.58	36.15	4.8	**6.1**	0.20 U	15	0.20 U	**0.38**	6.44	13.2		780	3.22
9/22/2025	Shallow	10–15	44.73	9.71	35.02	0.68	0.58	0.20 U	2.5		**0.51**	6.48	16.8		1,192	0.15
BSCSS-HZ-MW-24																
12/10/2018	Intermediate	25–35	41.53	6.04	35.49	2.8	0.91	1.0 U	5.4	1.0 U	0.20 U	6.26	15.0	273.7		0.08
5/31/2019	Intermediate	25–35	41.53	6.06	35.47	2.0	0.92	0.20 U	**21**	0.20	**0.77**	6.61	15.3	533.7		0.13
7/17/2019	Intermediate	25–35	41.53	7.10	34.43	2.7	1.1	0.20 U	16	0.20 U	**0.58**	6.39	17.1	557.4		0.07
10/24/2019	Intermediate	25–35	41.53	6.82	34.71	0.40 U	0.40 U	0.40 U	**93**	0.40 U	**0.76**	6.21	16.0	442.3		0.16
1/27/2020	Intermediate	25–35	41.53	5.71	35.82	2.2	1.3	1.0 U	**150**	1.0 U	**3.2**	6.47	13.0	452.3		0.13
4/14/2020	Intermediate	25–35	41.53	6.01	35.52	0.40 U	0.40 U	0.40 U	**73**	0.40 U	**30**	6.36	15.7	493.7		0.22
7/22/2020	Intermediate	25–35	41.53	6.78	34.75	0.94	1.8	0.20 U	**28**	0.20 U	**2.6**	6.26	16.6	452.1		0.3
10/28/2020	Intermediate	25–35	41.53	6.91	34.62	1.3	1.3	0.20 U	**35**	0.27	**2.0**	6.02	16.2	417		0.2
3/2/2021	Intermediate	25–35	41.53	5.18	36.35	0.20 U	0.35	0.20 U	6.1	0.20 U	0.17	6.06	13.3	277.2		
6/18/2021	Intermediate	25–35	41.53	6.50	35.03	0.20 U	0.21	0.20 U	5.0	0.20 U	0.13	6.39	16.2	244.1		0.09

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						VOCs						Field Parameters				
Analyte						Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	pH	Temperature	Conductivity	Specific Conductance	Dissolved Oxygen
CAS No.						127-18-4	79-01-6	75-35-4	156-59-2	156-60-5	75-01-4	pH	--	--	--	--
MTCA Method A CUL [1]						5.0	5.0	--	16	160	0.20	--	--	--	--	--
Unit						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pH	°C	µS/cm	µS/cm	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)											
BSCSS-HZ-MW-24 (cont.)																
9/20/2022	Intermediate	25–35	41.53	5.60	35.93	3.8	4.1	0.20 U	**25**	0.20 U	**0.80**	6.06	16.3	363.9		0.18
2/7/2023	Intermediate	25–35	41.53	1.90	39.63	2.7	2.3	0.20 U	15	0.20 U	**0.55**	6.24	13.2	410.8		0.09
9/8/2023	Intermediate	25–35	41.53	5.61	35.92	2.0	2.0	0.20 U	11	0.20 U	**0.61**	6.23	15.0	473.6		0.25
4/10/2024	Intermediate	25–35	39.78	4.78	35.00	1.0	1.3	0.20 U	9.0	0.20 U	**0.26**	6.42	13.0		771.3	0.3
9/24/2024	Intermediate	25–35	39.78	5.59	34.19	3.6	2.8		14	0.20 U	**0.42**	6.36	14.3		404.8	0.47
5/7/2025	Intermediate	25–35	39.78	5.30	34.48	4.5	3.5	0.20 U	**19**	0.20 U	**0.52**	6.54	13.1		250	0.72
9/24/2025	Intermediate	25–35	39.78	5.68	34.10	**45**	**19**	0.40 U	**29**		**0.73**	6.57	14.7		400	0.1
BSCSS-HZ-MW-26																
12/4/2018	Intermediate	25–35	41.30	7.23	34.07	**6.2**	0.50 U	1.0 U	1.0	1.0 U	0.20 U	6.38	14.2	334.2		0.1
5/30/2019	Intermediate	25–35	41.30	6.85	34.45	**9.7**	0.20 U	0.20 U	1.4	0.20 U	0.20 U	6.70	16.6	329.9		0.18
7/29/2019	Intermediate	25–35	41.30	7.34	33.96	5.0	0.20 U	0.20 U	1.0	0.20 U	0.053	6.42	16.5	327.9		0.21
10/16/2019	Intermediate	25–35	41.30	7.91	33.39	2.8	0.20 U	0.20 U	0.53	0.20 U	0.055	6.61	15.1	322.7		0.03
1/24/2020	Intermediate	25–35	41.30	6.86	34.44	1.5	0.20 U	0.20 U	0.42	0.20 U	0.041	6.55	13.1	334.4		0.1
4/13/2020	Intermediate	25–35	41.30	6.33	34.97	**73**	2.5	0.40 U	4.9	0.40 U	0.040 U	6.52	14.6	396.4		0.66
7/17/2020	Intermediate	25–35	41.30	6.82	34.48	**15**	0.84	0.20 U	2.2	0.20 U	0.026	6.29	15.7	370		0.31
10/27/2020	Intermediate	25–35	41.30	7.34	33.96	**14**	0.34	0.20 U	1.8	0.20 U	0.034	6.15	15.5	346.9		0.22
3/5/2021	Intermediate	25–35	41.30	6.66	34.64	1.7	0.20 U	0.20 U	0.26	0.20 U	0.020 U	6.51	13.9	180.9		2.65
6/14/2021	Intermediate	25–35	41.30	6.99	34.31	5.0	0.20 U	0.20 U	1.2	0.20 U	0.020	6.41	14.9	337.4		0.15
6/22/2021	Intermediate	25–35	41.30	--	--	4.8	0.20 U	0.20 U	1.1	0.20 U	0.020 U					
9/8/2022	Intermediate	25–35	41.30	11.98	29.32	**22**	0.43	0.20 U	2.0	0.20 U	0.048	6.23	15.5	365		0.15
2/21/2023	Intermediate	25–35	41.30	9.83	31.47	**7.4**	0.20 U	0.20 U	1.6	0.20 U	0.076	6.44	13.9	366.5		0.14
9/12/2023	Intermediate	25–35	41.30	11.14	30.16	**11**	0.20 U	0.20 U	1.2	0.20 U	0.20 U	6.07	14.5	385.6		0.15
4/10/2024	Intermediate	25–35	44.48	10.16	34.32	**18**	0.22	0.20 U	2.0	0.20 U	0.20 U	6.51	13.2		221.2	0.39
9/23/2024	Intermediate	25–35	44.48	11.14	33.34	**32**	0.35		3.5	0.20 U	0.20 U	6.45	14.4		344.8	0.24
5/7/2025	Intermediate	25–35	44.48	10.77	33.71	**60**	0.65	0.40 U	5.3	0.40 U	0.20 U	6.65	13.6		290	0.71
9/24/2025	Intermediate	25–35	44.48	11.15	33.33	**52**	0.56	0.40 U	5.2		*0.40 U*	6.55	14.2		340.6	0.16
BSCSS-HZ-MW-29																
12/10/2018	Intermediate	25–35	40.74	5.68	35.06	**14**	4.1	1.0 U	11	1.0 U	0.20 U	6.18	14.3	330.7		0.07
5/31/2019	Intermediate	25–35	40.74	6.29	34.45	1.4	0.60	0.20 U	**32**	0.22	**0.26**	6.52	15.8	705		0.35
7/17/2019	Intermediate	25–35	40.74	7.03	33.71	1.2	0.58	0.20 U	**32**	0.32	**0.47**	6.20	15.9	627		0.09
10/24/2019	Intermediate	25–35	40.74	7.98	32.76	1.0 U	1.0 U	1.0 U	**100**	1.0 U	**0.94**	6.15	15.2	466.6		0.14
1/27/2020	Intermediate	25–35	40.74	6.41	34.33	1.0 U	1.5	1.0 U	**100**	1.0 U	**1.5**	6.33	13.4	579.5		0.17
4/13/2020	Intermediate	25–35	40.74	6.31	34.43	1.0 U	**5.2**	1.0 U	**130**	1.0 U	**5.8**	6.31	13.3	595.4		0.28
7/17/2020	Intermediate	25–35	40.74	10.22	30.52	1.0 U	1.0 U	1.0 U	**190**	1.0	**40**	6.22	15.7	655		0.24
10/28/2020	Intermediate	25–35	40.74	6.88	33.86	0.20 U	0.27	0.20 U	**21**	0.55	**9.2**	6.21	16.7	723		0.2
3/5/2021	Intermediate	25–35	40.74	5.47	35.27	0.20 U	0.29	0.20 U	**19**	0.36	**5.1**	6.46	13.8	641		0.21
6/22/2021	Intermediate	25–35	40.74	6.70	34.04	0.20 U	0.32	0.20 U	**20**	0.30	**9.7**	6.45	15.9	551		0.1
9/20/2022	Intermediate	25–35	40.74	6.35	34.39	0.20 U	0.24	0.20 U	**30**	0.25	**15**	5.97	15.8	403.7		0.21
2/7/2023	Intermediate	25–35	40.74	5.16	35.58	0.20 U	0.20 U	0.20 U	**32**	0.29	**16**	6.22	14.5	410.6		0.1
9/8/2023	Intermediate	25–35	40.74	6.44	34.30	0.20 U	0.20 U	0.20 U	**32**	0.24	**13**	6.13	14.6	396.6		0.12
4/10/2024	Intermediate	25–35	39.67	5.48	34.19	0.20 U	0.20 U	0.20 U	**29**	0.22	**10**	6.34	12.7		263.7	0.4
9/24/2024	Intermediate	25–35	39.67	6.30	33.37	0.20 U	0.20 U		**22**	0.20 U	**8.4**	6.43	14.4		337.6	0.15
5/7/2025	Intermediate	25–35	39.67	5.89	33.78	0.20 U	0.20 U	0.20 U	**18**	0.20 U	**5.2**	6.59	13.6		240	0.89
9/24/2025	Intermediate	25–35	39.67	6.38	33.29	0.20 U	0.20 U	0.20 U	**21**		**6.4**	6.69	14.8		276	0.08

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						VOCs						Field Parameters				
Analyte						Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	pH	Temperature	Conductivity	Specific Conductance	Dissolved Oxygen
CAS No.						127-18-4	79-01-6	75-35-4	156-59-2	156-60-5	75-01-4	pH	--	--	--	--
MTCA Method A CUL [1]						5.0	5.0	--	16	160	0.20	--	--	--	--	--
Unit						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pH	°C	µS/cm	µS/cm	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)											
BSCSS-HZ-MW-31																
12/18/2018	Shallow	15–25	37.00	9.40	27.60	1.0 U	0.50 U	1.0 U	1.0 U	1.0 U	0.20 U	6.33	14.2	331.1		0.07
5/29/2019	Shallow	15–25	37.00	9.34	27.66	0.78	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	6.58	15.0	320.7		0.23
7/23/2019	Shallow	15–25	37.00	9.45	27.55	2.5	0.20 U	0.20 U	0.69	0.20 U	0.048	6.33	16.9	295.9		0.21
10/25/2019	Shallow	15–25	37.00	9.16	27.84	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.048	6.22	15.1	232.9		0.1
1/28/2020	Shallow	15–25	37.00	8.75	28.25	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.054	6.27	12.9	298.6		0.24
4/27/2020	Shallow	15–25	37.00	24.75	12.25	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.049	6.50	14.3	347.3		0.25
7/29/2020	Shallow	15–25	37.00	9.02	27.98	0.20 U	0.20 U		0.20 U		0.049	6.32	16.1	336.7		0.2
10/29/2020	Shallow	15–25	37.00	9.21	27.79	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.060	6.11	15.1	276.1		0.17
3/5/2021	Shallow	15–25	37.00	8.30	28.70	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.021	6.61	10.6	230.1		3.1
6/21/2021	Shallow	15–25	37.00	6.35	30.65	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.046	6.53	20.1	275.4		0.13
9/29/2022	Shallow	15–25	37.00	9.06	27.94	0.41	0.47	0.20 U	2.0	0.20 U	**20**	6.08	16.7	304		0.17
2/6/2023	Shallow	15–25	37.00	8.20	28.80	0.80 U	0.80 U	0.80 U	16	0.80 U	**94**	6.33	13.7	318.2		0.1
9/26/2023	Shallow	15–25	37.00	8.61	28.39	2.0 U	2.0 U	2.0 U	**22**	2.0 U	**110**	6.11	16.1	343		0.12
9/26/2024	Shallow	15–25	37.00	8.70	28.30	2.0 U	0.40 U		**45**	0.40 U	**62**	6.42	16.3		370.8	0.33
5/6/2025	Shallow	15–25	37.00	8.48	28.52	0.20 U	0.20 U	0.20 U	**45**	0.20 U	**58**	6.55	14.1		280	0.6
9/23/2025	Shallow	15–25	37.00	8.65	28.35	0.40 U	0.40 U	0.40 U	**40**		**46**	6.52	16.2		391	0.15
BSCSS-HZ-MW-33R																
8/11/2021	Intermediate	25–35	35.00	7.93	27.07	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.064	6.55	17.2	188		0.35
10/3/2022	Intermediate	25–35	35.00	--	--	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.039	5.84	16.1	252.1		0.4
2/7/2023	Intermediate	25–35	35.00	--	--	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.033	6.33	13.2	177.7		0.12
9/21/2023	Intermediate	25–35	35.00	--	--	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	6.17	14.8	180.8		0.1
4/11/2024	Intermediate	25–35	35.00	--	--	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	6.57	13.4		105.8	0.36
9/24/2024	Intermediate	25–35	38.38	--	--	0.20 U	0.20 U		0.20 U	0.20 U	0.20 U	6.63	14.9		163.3	0.45
5/7/2025	Intermediate	25–35	38.38	--	--	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	6.73	14.0		140	1.6
9/23/2025	Intermediate	25–35	38.38	--	--	0.20 U	0.20 U	0.20 U	0.20 U		0.20 U	6.71	15.8		183.6	0.13
BSCSS-HZ-MW-34																
12/7/2018	Shallow	15–25	37.00	5.77	31.23	4.4	**13**	1.0 U	**33**	1.0 U	0.20 U	6.18	15.9	383.7		0.1
5/31/2019	Shallow	15–25	37.00	5.88	31.12	0.83	3.3	0.20 U	**24**	0.29	**0.26**	6.46	14.7	550		0.16
7/17/2019	Shallow	15–25	37.00	6.41	30.59	1.4	3.3	0.20 U	**20**	0.27	**0.28**	6.24	17.3	508.5		0.08
10/23/2019	Shallow	15–25	37.00	6.60	30.40	1.0 U	1.0 U	1.0 U	**110**	1.0 U	**0.97**	6.25	16.2	258.4		0.07
1/27/2020	Shallow	15–25	37.00	5.22	31.78	1.0 U	2.6	1.0 U	**120**	1.0 U	**31**	6.25	14.0	570.1		0.14
4/14/2020	Shallow	15–25	37.00	5.83	31.17	1.0 U	1.6	1.0 U	**100**	1.0 U	**130**	6.50	13.8	646		0.21
7/21/2020	Shallow	15–25	37.00	6.78	30.22	0.20 U	0.20 U	0.20 U	12	0.32	**16**	6.22	19.3	587		0.2
10/28/2020	Shallow	15–25	37.00	6.74	30.26	0.20 U	0.24	0.20 U	13	0.29	**20**	6.07	17.2	520.8		0.21
3/2/2021	Shallow	15–25	37.00	5.15	31.85	0.20 U	0.24	0.20 U	11	0.21	**12**	6.10	13.6	465		
6/18/2021	Shallow	15–25	37.00	6.35	30.65	0.34	0.88	0.20 U	4.2	0.20 U	**1.2**	6.39	15.9	350.3		0.05
9/20/2022	Shallow	15–25	37.00	5.50	31.50	0.48	1.6	0.20 U	13	0.20 U	**5.0**	5.90	16.6	310.7		0.25
2/7/2023	Shallow	15–25	37.00	2.40	34.60	0.35	1.0	0.20 U	14	0.20 U	**4.6**	6.24	14.1	303.4		0.45
9/8/2023	Shallow	15–25	37.00	5.54	31.46	0.66	1.8	0.20 U	8.4	0.20 U	**2.0**	6.17	14.7	319.3		0.2
4/10/2024	Shallow	15–25	39.69	4.64	35.05	0.53	1.5	0.20 U	7.2	0.20 U	**0.92**	6.53	12.4		223.1	0.4
9/24/2024	Shallow	15–25	39.69	5.52	34.17	0.33	1.4		6.5	0.20 U	**1.3**	6.21	14.3		331.1	0.29
5/7/2025	Shallow	15–25	39.69	5.18	34.51	0.55	2.2	0.20 U	5.1	0.20 U	**0.36**	6.44	12.2		290	1.85
9/24/2025	Shallow	15–25	39.69	5.61	34.08	0.38	1.6	0.20 U	7.4		**0.98**	6.44	14.8		322	0.18

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All Wells: Groundwater Elevations and Field Parameters

Analyte Class						VOCs						Field Parameters				
Analyte						Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	pH	Temperature	Conductivity	Specific Conductance	Dissolved Oxygen
CAS No.						127-18-4	79-01-6	75-35-4	156-59-2	156-60-5	75-01-4	pH	--	--	--	--
MTCA Method A CUL [1]						5.0	5.0	--	16	160	0.20	--	--	--	--	--
Unit						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pH	°C	µS/cm	µS/cm	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)											
BSCSS-S-MW-1																
6/6/2019	Shallow	5.5–15.5	43.53	6.00	37.53	**8.9**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	6.25	14.4	256.6		3.46
7/23/2019	Shallow	5.5–15.5	43.53	6.61	36.92	**6.5**	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	6.01	18.8	200.8		3.1
10/23/2019	Shallow	5.5–15.5	43.53	6.18	37.35	**7.3**	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	5.92	15.4	162.8		3.82
1/21/2020	Shallow	5.5–15.5	43.53	4.78	38.75	3.4	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	6.32	11.0	236.2		4.38
4/23/2020	Shallow	5.5–15.5	43.53	5.01	38.52	3.5	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	6.13	11.1	324.2		4.58
7/28/2020	Shallow	5.5–15.5	43.53	6.97	36.56	**5.1**	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	6.02	17.5	312.3		3.71
11/2/2020	Shallow	5.5–15.5	43.53	7.30	36.23	4.5	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	5.76	16.5	313.3		3.18
3/1/2021	Shallow	5.5–15.5	43.53	4.99	38.54	1.7	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	5.83	11.2	197.7		4.59
6/14/2021	Shallow	5.5–15.5	43.53	7.23	36.30	1.2	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	6.48	14.3	212.1		7.73
9/27/2022	Shallow	5.5–15.5	43.53	8.55	34.98	2.9	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	5.66	18.0	216.2		3.8
2/16/2023	Shallow	5.5–15.5	43.53	6.87	36.66	2.6	0.20 U	0.20 U	0.20 U	0.20 U	0.020 U	6.30	9.90	326.3		3.68
9/7/2023	Shallow	5.5–15.5	43.53	8.71	34.82	3.5	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.81	15.9	287.1		1.31
9/25/2024	Shallow	5.5–15.5	45.25	8.29	36.96	2.4	0.20 U		0.20 U	0.20 U	0.20 U	6.29	15.2		402.8	3.23
5/6/2025	Shallow	5.5–15.5	45.25	7.66	37.59	1.5	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	6.58	11.5		270	4.05
9/23/2025	Shallow	5.5–15.5	45.25	9.01	36.24	4.2	0.20 U	0.20 U	0.20 U		0.20 U	6.30	15.8		327	1.47
BSCSS-S-MW-2RR																
8/5/2021	Shallow	5–15	39.00	6.65	32.35	0.20 U	0.20 U	0.20 U	12	0.21	**3.6**	6.64	21.5	589		0.99
9/8/2022	Shallow	5–15	39.00	8.60	30.40	0.20 U	0.25	0.20 U	0.37	0.20 U	**0.59**	6.73	19.9	606		0.05
2/10/2023	Shallow	5–15	39.00	6.85	32.15	0.20 U	0.39	0.20 U	0.20 U	0.20 U	0.084	6.88	12.9	769		0.06
9/12/2023	Shallow	5–15	39.00	8.88	30.12	0.20 U	0.35	0.20 U	0.20 U	0.20 U	**0.37**	6.74	15.0	831		0.15
4/10/2024	Shallow	5–15	44.65	7.51	37.14	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	6.80	11.5		670	0.31
9/23/2024	Shallow	5–15	44.65	8.93	35.72	0.20 U	0.56		0.32	0.20 U	0.20 U	6.64	14.5		594	0.43
5/7/2025	Shallow	5–15	44.65	7.42	37.23	0.20 U	0.25	0.20 U	0.20 U	0.20 U	0.20 U	6.85	15.9		770	0.27
9/22/2025	Shallow	5–15	44.65	9.01	35.64	0.20 U	0.20 U	0.20 U	0.20 U		0.20 U	6.95	16.6		674	0.43
BSCSS-S-MW-3RR																
8/20/2021	Intermediate	24–39	40.00	11.12	28.88	**94**	0.72	0.40 U	0.40 U	0.40 U	0.040 U	6.29	16.4	207.6		16.7
10/14/2022	Intermediate	24–39	40.00	--	--	**37**	0.41	0.20 U	0.69	0.20 U	0.020 U	5.30	15.6	150		0.54
2/10/2023	Intermediate	24–39	40.00	13.90	26.10	**76**	0.94	0.40 U	2.4	0.40 U	0.040 U	5.66	14.1	159.4		0.12
2/17/2024	Intermediate	24–39	40.00	9.11	30.89	**89**	1.9	0.40 U	5.5	0.40 U	**0.47**	5.92	12.0	230		1.6
4/10/2024	Intermediate	24–39	40.00	10.58	29.42	**85**	3.5	0.40 U	10	0.40 U	**1.6**	6.53	11.4		408.3	0.27
BSCSS-S-MW-3RRR																
9/26/2024	Intermediate	--	45.91	11.30	34.61	**270**	0.82		0.55	0.20 U	0.20 U	6.13	14.0		249	2.86
5/7/2025	Intermediate	--	45.91	10.90	35.01	**170**	1.1	1.0 U	1.5	1.0 U	0.20 U	6.08	13.6		210	0.25
9/23/2025	Intermediate	--	45.91	11.80	34.11	**95**	1.1	0.40 U	2.0		**0.58**	5.91	14.9		245	0.13
BSCSS-S-MW-5R																
8/11/2021	Shallow	15–25	39.00	8.30	30.70	**630**	4.0 U	4.0 U	4.0 U	4.0 U	*0.40 U*	6.56	19.1	178.4		1.97
10/3/2022	Shallow	15–25	39.00	10.88	28.12	**450**	3.9	0.20 U	5.3	0.20 U	0.081	5.83	16.2	396.5		3.5
2/10/2023	Shallow	15–25	39.00	7.14	31.86	**270**	**6.8**	2.0 U	14	2.0 U	**0.70**	6.26	13.6	480.3		0.14
9/12/2023	Shallow	15–25	39.00	8.59	30.41	**510**	3.9	2.0 U	3.7	2.0 U	0.20 U	6.18	14.3	277.5		0.29

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						VOCs						Field Parameters				
Analyte						Tetrachloroethene	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	pH	Temperature	Conductivity	Specific Conductance	Dissolved Oxygen
CAS No.						127-18-4	79-01-6	75-35-4	156-59-2	156-60-5	75-01-4	pH	--	--	--	--
MTCA Method A CUL [1]						5.0	5.0	--	16	160	0.20	--	--	--	--	--
Unit						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pH	°C	µS/cm	µS/cm	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)											
BSCSS-S-MW-5R (cont.)																
4/10/2024	Shallow	15–25	43.66	7.56	36.10	**360**	**6.6**	2.0 U	13	2.0 U	0.20 U	6.68	11.7		286.7	0.5
9/23/2024	Shallow	15–25	43.66	8.39	35.27	**350**	**7.8**		**17**	2.0 U	*2.0 U*	6.30	13.9		480.9	0.37
5/5/2025	Shallow	15–25	43.66	7.97	35.69	**420**	2.8	2.0 U	3.3	2.0 U	0.20 U	6.51	13.5		250	1.52
9/22/2025	Shallow	15–25	43.66	8.65	35.01	**750**	**12**	2.0 U	9.4		*2.0 U*	6.54	15.5		1,110	1.43

Notes:

All blank cells are intentional.
All chemistry results are rounded to two significant figures.
Field parameters are reported as displayed by the sampling equipment.
-- Not available.
Italic Analyte was not detected at a reporting limit greater than the CUL.
RED/BOLD Analyte was detected at a concentration greater than the CUL.
Well is inactive or decommissioned.
1 CULs are based on MTCA Method A values, except for cis- and trans-1,2-dichloroethene, which use MTCA Method B.
2 Ferrous iron result not recorded.

Abbreviations:

bgs Below ground surface
BTOC Below top of casing
°C Degrees Celsius
CAS Chemical Abstracts Service
CUL Cleanup level
µg/L Micrograms per liter
µS/cm Microsiemens per centimeter
mg/L Milligrams per liter
mg-N/L Milligrams of nitrogen per liter
MTCA Model Toxics Control Act
mV Millivolts
NAVD 88 North American Vertical Datum of 1988
NTU Nephelometric turbidity units
ORP Oxidation–reduction potential
TOC Top of casing
VOC Volatile organic compound

Qualifiers:

J Analyte was detected; concentration is an estimate.
U Analyte was not detected at the associated reporting limit.
UJ Analyte was not detected at the associated reporting limit, which is an estimate.

Table 5
All Wells: Groundwater Elevations and Field Parameters

						Analyte Class	Field Parameters (cont.)			Total Metals					Dissolved Metals		Conventionals			
						Analyte	ORP	Turbidity	Ferrous iron	Calcium	Iron	Magnesium	Manganese	Sodium	Iron	Manganese	Sulfate	Chloride	Ammonia	Ammonia
						CAS No.	--	--	15438-31-0	7440-70-2	7439-89-6	7439-95-4	7439-96-5	7440-23-5	7439-89-6	7439-96-5	14808-79-8	16887-00-6	7664-41-7	7664-41-7
						MTCA Method A CUL [1]	--	--	--	--	--	--	--	--	--	--	--	--	--	--
						Unit	mV	NTU	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg-N/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)															
BSCSS-MW-4R																				
8/2/2021	Shallow	10–25	42.00	9.33	32.67	51.2				3,000						25	8.9		
8/30/2022	Shallow	10–25	42.00	7.68	34.32	-8.2				3,700						28	4.7		
2/20/2023	Shallow	10–25	42.00	6.46	35.54	-13.9			45,000	2,900	21,000	2,100	20,000			25	3.8		
9/15/2023	Shallow	10–25	42.00	7.89	34.11	170.9								4,200		24	3.0		
4/9/2024	Shallow	10–25	44.56	6.90	37.66	-47.5	2.29	3.5						3,300	2,100	21		0.053 U	
9/25/2024	Shallow	10–25	44.56	7.58	36.98	-105	2.34	5.0	130,000		62,000		33,000	15,000	4,400	5.0 U	7.3	0.053 U	
5/5/2025	Shallow	10–25	44.56	7.05	37.51	77.2	0.89	2.5						16,000	4,000	5.0 U		0.053 U	
9/22/2025	Shallow	10–25	44.56	8.26	36.30	-123	2.46	5.5						15,000	3,600	17		0.053 U	
BSCSS-MW-5R																				
8/3/2021	Shallow	10–25	42.00	8.30	33.70	158.6				56 U						21	12		
9/1/2022	Shallow	10–25	42.00	8.64	33.36	11.3				74						25	5.7		
2/20/2023	Shallow	10–25	42.00	8.90	33.10	116.4			17,000	56 U	6,200	160	12,000			26	5.7		
9/20/2023	Shallow	10–25	42.00	8.63	33.37	181.8								130		25	4.1		
4/9/2024	Shallow	10–25	44.68	7.70	36.98	119.4	1.83	0						74	250	24		0.053 U	
9/25/2024	Shallow	10–25	44.68	7.90	36.78	128.7	1.38	1.0	33,000		18,000		17,000	580	800	17	3.3	0.053 U	
5/5/2025	Shallow	10–25	44.68	7.59	37.09	140	0.05	2.0						2,000	1,600	23		0.053 U	
9/22/2025	Shallow	10–25	44.68	9.44	35.24	-17.3	0.31	1.5						1,700	830	30		0.053 U	
BSCSS-MW-6																				
12/21/2018	Shallow	10–25	47.57	8.79	38.78	-65.4								5,300		8.7	11	0.41	
2/22/2019	Shallow	10–25	47.57	7.79	39.78	-52								5,800		13	7.7	0.10 U	
5/22/2019	Shallow	10–25	47.57	8.46	39.11	-70.8								8,800		5.0 U	14		0.16
7/25/2019	Shallow	10–25	47.57	9.06	38.51	-108.1								9,200		5.0 U	14		0.18
10/21/2019	Shallow	10–25	47.57	8.76	38.81	-74.6				13,000						5.0 U	16		
1/22/2020	Shallow	10–25	47.57	7.77	39.80	-77.8				12,000						5.0 U	10		
4/17/2020	Shallow	10–25	47.57	8.19	39.38	-7.4				1,500						13	6.3		
7/20/2020	Shallow	10–25	47.57	8.28	39.29	-60.4				38,000						5.0 U	12		
10/19/2020	Shallow	10–25	47.57	8.83	38.74	-51				11,000						5.0 U	11		
2/23/2021	Shallow	10–25	47.57	8.23	39.34	-88.5										5.0 U	11		
6/15/2021	Shallow	10–25	47.57	9.37	38.20	-125.1				30,000						5.0 U	8.3		
9/12/2022	Shallow	10–25	47.57	--	--	2.9				5,500						18	6.7		
2/20/2023	Shallow	10–25	47.57	--	--	-124.2			69,000	41,000	33,000	6,400	23,000			23	8.2		
9/14/2023	Shallow	10–25	47.57	--	--	-43.4								56 U		23	8.5		
4/9/2024	Shallow	10–25	44.77	--	--	-134.9	1.37	3.0						46,000	5,600	21		2.2	
9/25/2024	Shallow	10–25	44.77	--	--	-126.7	2.69	2.5	53,000		32,000		32,000	32,000	4,400	33	4.3	2.0	
5/7/2025	Shallow	10–25	44.77	--	--	21.4	3.84	3.0						37,000	4,000	49		1.8	
9/24/2025	Shallow	10–25	44.77	--	--	-131.6	10.68	4.0						26,000	2,700	48		0.63	

Table 5
All Wells: Groundwater Elevations and Field Parameters

						Analyte Class	Field Parameters (cont.)			Total Metals					Dissolved Metals		Conventionals			
						Analyte	ORP	Turbidity	Ferrous iron	Calcium	Iron	Magnesium	Manganese	Sodium	Iron	Manganese	Sulfate	Chloride	Ammonia	Ammonia
						CAS No.	--	--	15438-31-0	7440-70-2	7439-89-6	7439-95-4	7439-96-5	7440-23-5	7439-89-6	7439-96-5	14808-79-8	16887-00-6	7664-41-7	7664-41-7
						MTCA Method A CUL [1]	--	--	--	--	--	--	--	--	--	--	--	--	--	--
						Unit	mV	NTU	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg-N/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)															
BSCSS-MW-7																				
5/24/2019	Shallow	10–25	45.96	7.96	38.00	-9.2									3,900		37	6.1		0.050 U
6/18/2021	Shallow	10–25	45.96	8.73	37.23	-132.2					13,000						27	11		
9/28/2022	Shallow	10–25	45.96	8.41	37.55	16.8									8,200		17	8.8		
2/21/2023	Shallow	10–25	45.96	7.05	38.91	-7.1				56,000	7,400	22,000	470	20,000			26	6.8		
9/15/2023	Shallow	10–25	45.96	8.34	37.62	130.5									3,200		20	8.9		
4/9/2024	Shallow	10–25	44.51	7.33	37.18	-6.8	2.93	5.5							4,800	430	22		0.053 U	
9/25/2024	Shallow	10–25	44.51	8.23	36.28	-120	2.79	5.0		80,000		44,000		23,000	15,000	720	20	5.2	0.053 U	
5/7/2025	Shallow	10–25	44.51	7.90	36.61	90.2	6.48	2.0							7,100	780	20		0.053 U	
9/24/2025	Shallow	10–25	44.51	9.02	35.49	-141.8	2.64	[2]							20,000	810	5.0 U		0.10	
9/24/2025	Shallow	10–25	44.51	9.02	35.49										19,000	730	5.0 U		0.053 U	
BSCSS-MW-11																				
12/20/2018	Intermediate	25–33	47.68	8.56	39.12	14.3									610		37	14	0.10 U	
2/21/2019	Intermediate	25–33	47.68	7.90	39.78	-70									1,200		10	14	0.10 U	
5/22/2019	Intermediate	25–33	47.68	8.48	39.20	-18									810		13	13		0.050 U
7/25/2019	Intermediate	25–33	47.68	9.12	38.56	-43.8									660		10	11		0.068
10/21/2019	Intermediate	25–33	47.68	8.92	38.76	-59.4					1,500						5.0 U	15		
1/22/2020	Intermediate	25–33	47.68	8.09	39.59	-35.1					4,500						5.0 U	12		
4/17/2020	Intermediate	25–33	47.68	8.49	39.19	-15.1					580						62	8.9		
7/20/2020	Intermediate	25–33	47.68	8.74	38.94	-38.7					6,900						5.0 U	12		
10/19/2020	Intermediate	25–33	47.68	9.00	38.68	-91.3					8,600						7.6	14		
2/26/2021	Intermediate	25–33	47.68	8.02	39.66	-110.1					16,000						11	12		
6/15/2021	Intermediate	25–33	47.68	9.24	38.44	-132.2					4,700						35	7.6		
9/28/2022	Intermediate	25–33	47.68	7.50	40.18	-41.7									1,000		23	2.9		
2/20/2023	Intermediate	25–33	47.68	6.10	41.58	-67.7				30,000	1,800	13,000	830	25,000			31	2.1		
9/14/2023	Intermediate	25–33	47.68	7.51	40.17	18.6									1,700		21	2.2		
4/9/2024	Intermediate	25–33	44.75	6.52	38.23	-75.5	2.72	1.5							1,500	880	21		0.19	
9/24/2024	Intermediate	25–33	44.75	7.12	37.63	-82.1	1.32	2.6							2,000	1,300	28		0.20	
5/7/2025	Intermediate	25–33	44.75	6.73	38.02	-56.1	0.67	2.0							1,800	1,100	72		0.23	
9/22/2025	Intermediate	25–33	44.75	7.63	37.12	-143.2	0.51	2.5							2,800	1,800	150		0.26	
BSCSS-MW-12																				
5/24/2019	Intermediate	25–33	45.84	7.92	37.92	-89.5									530		24	9.5		0.050 U
7/22/2019	Intermediate	25–33	45.84	8.40	37.44	-341									3,400		18	42		0.050 U
10/18/2019	Intermediate	25–33	45.84	9.07	36.77	40					6,000						14	36		
1/27/2020	Intermediate	25–33	45.84	7.80	38.04	38.2					6,100						12	32		
4/21/2020	Intermediate	25–33	45.84	7.64	38.20	27.5					5,100						21	30		
7/22/2020	Intermediate	25–33	45.84	6.45	39.39	31.4					6,500						29	19		
10/21/2020	Intermediate	25–33	45.84	8.83	37.01	30.6					5,200						35	14		

Table 5
All Wells: Groundwater Elevations and Field Parameters

						Analyte Class	Field Parameters (cont.)			Total Metals					Dissolved Metals		Conventionals			
						Analyte	ORP	Turbidity	Ferrous iron	Calcium	Iron	Magnesium	Manganese	Sodium	Iron	Manganese	Sulfate	Chloride	Ammonia	Ammonia
						CAS No.	--	--	15438-31-0	7440-70-2	7439-89-6	7439-95-4	7439-96-5	7440-23-5	7439-89-6	7439-96-5	14808-79-8	16887-00-6	7664-41-7	7664-41-7
						MTCA Method A CUL [1]	--	--	--	--	--	--	--	--	--	--	--	--	--	--
						Unit	mV	NTU	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg-N/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)															
BSCSS-MW-12																				
3/3/2021	Intermediate	25–33	45.84	8.00	37.84	12.5				8,200							19	12		
6/15/2021	Intermediate	25–33	45.84	8.77	37.07	-60.7				6,900							16	12		
9/27/2022	Intermediate	25–33	45.84	7.90	37.94	-30.9				7,400							5.0 U	8.7		
2/20/2023	Intermediate	25–33	45.84	6.55	39.29	-61.5			99,000	9,100	43,000	2,900	18,000				5.0 U	6.9		
9/15/2023	Intermediate	25–33	45.84	7.91	37.93	129								7,700			13	9.4		
4/9/2024	Intermediate	25–33	44.22	6.98	37.24	-59.3	1.62	4.5						14,000	3,000		5.0 U		0.061	
9/25/2024	Intermediate	25–33	44.22	7.92	36.30	-28.6	1.38	4.0	82,000		42,000		18,000	14,000	2,900		6.7	7.5	0.053 U	
5/7/2025	Intermediate	25–33	44.22	7.18	37.04	220	2.08	2.5						12,000	2,500		8.6		0.053 U	
9/24/2025	Intermediate	25–33	44.22	8.75	35.47	-110	3.08	5.0						16,000	3,800		11		0.064	
BSCSS-MW-20R																				
6/22/2021	Intermediate	25–30	43.00	8.32	34.68	-97.2				16,000							9.2	11		
9/1/2022	Intermediate	25–30	43.00	7.80	35.20	-45.5				3,500							15	9.9		
2/2/2023	Intermediate	25–30	43.00	6.52	36.48	-73.4				6,200							15	15		
9/19/2023	Intermediate	25–30	43.00	7.96	35.04	42.9								4,900			10	15		
4/9/2024	Intermediate	25–30	44.78	6.91	36.09	-86.4	1.13	2.5						6,200	260		13		0.11	
9/24/2024	Intermediate	25–30	44.78	7.39	35.61	-70.9	0.50	4.0						6,200	260		18		0.17	
5/7/2025	Intermediate	25–30	44.78	6.95	37.83	210	5.15	3.0						5,700	240		18		0.33	
9/22/2025	Intermediate	25–30	44.78	8.12	36.66	-170.7	0.42	4.0						5,400	230		14		0.43	
BSCSS-MW-21R																				
8/3/2021	Shallow	10–15	42.00	8.74	33.26	136.7				56 U							22	16		
8/30/2022	Shallow	10–15	42.00	8.50	33.50	8				59							23	2.7		
2/3/2023	Shallow	10–15	42.00	7.50	34.50	60.6				92							24	3.5		
9/19/2023	Shallow	10–15	42.00	8.55	33.45	64.1								56 U			21	8.0		
4/9/2024	Shallow	10–15	44.71	7.49	37.22	66	4.93	0						260	990		22		0.053 U	
9/24/2024	Shallow	10–15	44.71	7.45	37.26	-22.3	1.26	2.5						2,200	2,600		40		0.053 U	
5/5/2025	Shallow	10–15	44.71	7.35	37.36	230	1.38	2.0						1,700	3,300		34		0.053 U	
9/22/2025	Shallow	10–15	44.71	10.25	34.46	-195.2	1.68	1.5						1,400	1,700		22		0.053 U	
BSCSS-MW-23																				
12/5/2018	Shallow	6–16	48.03	8.70	39.33	49.8								120			11	2.2	0.10 U	
2/12/2019	Shallow	6–16	48.03	8.18	39.85	128.7								100 U			6.0	1.5	0.10 U	
6/4/2019	Shallow	6–16	48.03	8.57	39.46	19.1								720			6.7	3.3		0.050 U
6/17/2021	Shallow	6–16	48.03	8.91	39.12	-109				3,100							6.7	2.1		
10/14/2022	Shallow	6–16	48.03	10.45	37.58	190.2				790							20	2.6		
2/6/2023	Shallow	6–16	48.03	10.00	38.03	126.7				250							17	6.5		
9/27/2023	Shallow	6–16	48.03	10.23	37.80	182.8								360			17	7.1		
4/11/2024	Shallow	6–16	48.03	10.44	37.59	215.9	2.03	0						56 U	180		9.8		0.053 U	
9/23/2024	Shallow	6–16	49.31	11.25	38.06	174.3	3.15	[2]						56 U	50		29		0.053 U	
5/6/2025	Shallow	6–16	49.31	10.63	38.68	140	5.31	0						56 U	70		11		0.053 U	
9/23/2025	Shallow	6–16	49.31	11.90	37.41	208.5	0	0						55 U	10 U		12		0.053 U	

Table 5
All Wells: Groundwater Elevations and Field Parameters

						Analyte Class	Field Parameters (cont.)			Total Metals					Dissolved Metals		Conventionals			
						Analyte	ORP	Turbidity	Ferrous iron	Calcium	Iron	Magnesium	Manganese	Sodium	Iron	Manganese	Sulfate	Chloride	Ammonia	Ammonia
						CAS No.	--	--	15438-31-0	7440-70-2	7439-89-6	7439-95-4	7439-96-5	7440-23-5	7439-89-6	7439-96-5	14808-79-8	16887-00-6	7664-41-7	7664-41-7
						MTCA Method A CUL [1]	--	--	--	--	--	--	--	--	--	--	--	--	--	--
						Unit	mV	NTU	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg-N/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)															
BSCSS-MW-27																				
12/12/2018	Shallow	6–16	48.49	10.09	38.40	48.3									100 U		35	2.7	0.10 U	
5/24/2019	Shallow	6–16	48.49	9.65	38.84	41.5									56 U		24	4.7		0.050 U
7/16/2019	Shallow	6–16	48.49	10.39	38.10	155.7									56 U		23	3.6		0.050 U
10/18/2019	Shallow	6–16	48.49	10.05	38.44	243.9					56 U						24	4.5		
1/29/2020	Shallow	6–16	48.49	8.22	40.27	166.3					180						17	5.2		
4/16/2020	Shallow	6–16	48.49	8.87	39.62	59.6					91						17	2.0 U		
7/27/2020	Shallow	6–16	48.49	9.95	38.54	105.3					74						21	2.0 U		
10/19/2020	Shallow	6–16	48.49	9.98	38.51	76.3					56 U						26	2.0 U		
2/26/2021	Shallow	6–16	48.49	7.87	40.62	81.8					56 U						18	2.0 U		
6/17/2021	Shallow	6–16	48.49	9.87	38.62	138.2					56 U						15	2.0 U		
9/22/2022	Shallow	6–16	48.49	10.22	38.27	109.9					3,300						16	2.0		
2/21/2023	Shallow	6–16	48.49	8.59	39.90	108.3				9,600	1,400	2,100	1,100	9,700			27	2.0 U		
9/7/2023	Shallow	6–16	48.49	10.33	38.16	142.6									1,200		22	3.8		
4/11/2024	Shallow	6–16	48.49	9.15	39.34	191.6	2.59	0							140	1,200	32		0.053 U	
9/25/2024	Shallow	6–16	47.49	10.01	37.48	116.6	1.39	[2]							440	2,500	36		0.053 U	
5/6/2025	Shallow	6–16	47.49	9.10	38.39	230	0.78	0.5							350	1,200	41		0.053 U	
9/23/2025	Shallow	6–16	47.49	11.15	36.34	80.2	1.18	1.0							3,300	4,800	32		0.053 U	
BSCSS-MW-29																				
12/12/2018	Deep	45–55	48.50	10.25	38.25	-16.7									100 U		6.7	5.3	0.24	
6/4/2019	Deep	45–55	48.50	10.08	38.42	15									450		5.0 U	26		0.25
7/16/2019	Deep	45–55	48.50	10.61	37.89	-106.2									460		5.0 U	5.2		0.30
10/18/2019	Deep	45–55	48.50	10.48	38.02	7.4					610						5.0 U	6.4		
1/29/2020	Deep	45–55	48.50	9.61	38.89	-82					570						5.0 U	6.3		
4/16/2020	Deep	45–55	48.50	9.71	38.79	-11.6					1,100						5.0 U	5.5		
7/24/2020	Deep	45–55	48.50	--	--						270						7.3	2.8		
8/10/2020	Deep	45–55	48.50	10.54	37.96	176.4					390						5.1	5.5		
10/19/2020	Deep	45–55	48.50	10.40	38.10	-62.8					56 U						5.2	6.1		
2/26/2021	Deep	45–55	48.50	9.36	39.14	-60.1					1,700						7.0	6.9		
6/17/2021	Deep	45–55	48.50	10.43	38.07	-147.7					320						6.1	6.5		
9/22/2022	Deep	45–55	48.50	10.10	38.40	-77.4					56 U						5.0 U	5.9		
2/10/2023	Deep	45–55	48.50	8.71	39.79	-24.9					1,300						5.0 U	4.8		
9/7/2023	Deep	45–55	48.50	10.20	38.30	5.5									1,100		5.0 U	5.6		
9/23/2024	Deep	45–55	48.03	10.61	37.42	-73.7	2.67	1.5							1,200	95	5.0 U		0.29	
5/7/2025	Deep	45–55	48.03	10.05	37.98	53.9	0	1.3							1,100	97	5.0 U		0.27	
9/23/2025	Deep	45–55	48.03	11.02	37.01	-152.8	3.34	1.5							1,200	90	5.0 U		0.24	

Table 5
All Wells: Groundwater Elevations and Field Parameters

						Analyte Class	Field Parameters (cont.)			Total Metals					Dissolved Metals		Conventionals			
						Analyte	ORP	Turbidity	Ferrous iron	Calcium	Iron	Magnesium	Manganese	Sodium	Iron	Manganese	Sulfate	Chloride	Ammonia	Ammonia
						CAS No.	--	--	15438-31-0	7440-70-2	7439-89-6	7439-95-4	7439-96-5	7440-23-5	7439-89-6	7439-96-5	14808-79-8	16887-00-6	7664-41-7	7664-41-7
						MTCA Method A CUL [1]	--	--	--	--	--	--	--	--	--	--	--	--	--	--
						Unit	mV	NTU	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg-N/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)															
BSCSS-MW-34																				
12/11/2018	Deep	40–50	47.19	8.50	38.69	44.3									560		14	32	0.10 U	
2/21/2019	Deep	40–50	47.19	7.59	39.60	91.9									370		15	33	0.10 U	
6/3/2019	Deep	40–50	47.19	8.28	38.91	18.6									440		15	29		0.050 U
6/15/2021	Deep	40–50	47.19	8.65	38.54	-22.3					900						11	9.5		
9/1/2022	Deep	40–50	47.19	7.70	39.49	12.4					1,600						18	11		
2/3/2023	Deep	40–50	47.19	6.65	40.54	32.6					2,000						20	11		
9/14/2023	Deep	40–50	47.19	7.55	39.64	81.8									2,400		14	12		
4/9/2024	Deep	40–50	44.48	6.65	37.83	16.3	1.04	2.0							2,100	280	31		0.068	
9/24/2024	Deep	40–50	44.48	7.41	37.07	64.5	0.28	2.3							2,100	320	31		0.053 U	
5/5/2025	Deep	40–50	44.48	6.67	37.81	190	0.22	2.5							2,000	320	37		0.053 U	
9/22/2025	Deep	40–50	44.48	7.85	36.63	9.7	8.42	2.0							1,900	290	37		0.053 U	
BSCSS-MW-39																				
12/17/2018	Deep	40–50	44.89	6.33	38.56	-3.5									4,600		2.1	3.5	0.56	
3/13/2019	Deep	40–50	44.89	6.32	38.57	82.2									4,400		0.30 U	3.8	0.45	
5/29/2019	Deep	40–50	44.89	6.49	38.40	1.8									4,500		5.0 U	4.3		0.48
7/23/2019	Deep	40–50	44.89	7.02	37.87	-96.6									4,300		5.0 U	4.3		0.44
10/24/2019	Deep	40–50	44.89	6.94	37.95	19.8					4,600						5.0 U	4.5		
1/28/2020	Deep	40–50	44.89	5.53	39.36	57.1					5,000						5.0 U	4.8		
4/27/2020	Deep	40–50	44.89	6.17	38.72	48.5					440						5.0 U	4.3		
7/29/2020	Deep	40–50	44.89	6.92	37.97	-30									5,500		5.0 U	4.9		
10/22/2020	Deep	40–50	44.89	6.99	37.90	13.3					100						5.0 U	4.6		
3/5/2021	Deep	40–50	44.89	--	--						4,600						5.0 U	6.3		
3/12/2021	Deep	40–50	44.89	6.29	38.60	-53.3					4,800						5.0 U	4.4		
6/21/2021	Deep	40–50	44.89	7.34	37.55	-106.1					6,800						7.5	5.3		
9/29/2022	Deep	40–50	44.89	7.86	37.03	-10.8					8,600						24	8.5		
2/6/2023	Deep	40–50	44.89	7.15	37.74	-34.4					9,000						21	7.8		
9/26/2023	Deep	40–50	44.89	7.68	37.21	128.8									9,600		22	7.8		
4/11/2024	Deep	40–50	44.89	6.77	38.12	-33.3	2.57	3.5							7,700	130	15		0.60	
9/26/2024	Deep	40–50	44.54	7.64	36.90	-53.1	3.40	5.5							8,200	160	15		0.57	
5/6/2025	Deep	40–50	44.54	7.00	37.54	-63.3	3.68	5.0							6,400	150	11		0.58	
9/23/2025	Deep	40–50	44.54	8.63	35.91	-179.4	13.71	5.0							7,600	190	5.0 U		13	
BSCSS-MW-40																				
12/17/2018	Shallow	15–25	45.00	6.28	38.72	52.6									100 U		1.6	0.59	0.10 U	
3/13/2019	Shallow	15–25	45.00	6.29	38.71	82.2									100 U		0.82	2.1	0.10 U	
5/29/2019	Shallow	15–25	45.00	6.49	38.51	3.8									7,600		5.0 U	11		0.35
7/23/2019	Shallow	15–25	45.00	7.00	38.00	-112.4									19,000		5.0 U	12		0.39
10/25/2019	Shallow	15–25	45.00	6.82	38.18	35.6					4,600						5.0 U	4.9		
1/28/2020	Shallow	15–25	45.00	5.51	39.49	-60.6					9,800						5.0 U	19		

Table 5
All Wells: Groundwater Elevations and Field Parameters

						Analyte Class	Field Parameters (cont.)			Total Metals					Dissolved Metals		Conventionals			
						Analyte	ORP	Turbidity	Ferrous iron	Calcium	Iron	Magnesium	Manganese	Sodium	Iron	Manganese	Sulfate	Chloride	Ammonia	Ammonia
						CAS No.	--	--	15438-31-0	7440-70-2	7439-89-6	7439-95-4	7439-96-5	7440-23-5	7439-89-6	7439-96-5	14808-79-8	16887-00-6	7664-41-7	7664-41-7
						MTCA Method A CUL [1]	--	--	--	--	--	--	--	--	--	--	--	--	--	--
						Unit	mV	NTU	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg-N/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)															
BSCSS-MW-40																				
4/27/2020	Shallow	15–25	45.00	6.48	38.52		26				5,600						5.0 U	7.9		
7/29/2020	Shallow	15–25	45.00	7.01	37.99		-47.7								27,000		5.0 U	24		
10/29/2020	Shallow	15–25	45.00	7.04	37.96		-43.6				22,000						5.0 U	18		
3/5/2021	Shallow	15–25	45.00	--	--						22,000						5.0 U	18		
3/12/2021	Shallow	15–25	45.00	6.50	38.50		-35.9				24,000						5.0 U	16		
6/21/2021	Shallow	15–25	45.00	6.98	38.02		-130				26,000						5.0 U	13		
9/29/2022	Shallow	15–25	45.00	8.18	36.82		-48.1				21,000						5.0 U	12		
2/6/2023	Shallow	15–25	45.00	6.40	38.60		37.5				3,600						5.0 U	5.9		
9/26/2023	Shallow	15–25	45.00	7.44	37.56		99.3								21,000		5.0 U	11		
4/11/2024	Shallow	15–25	45.00	7.73	37.27		-57.6	16.70	3.0						24,000	370	5.0 U		0.71	
9/26/2024	Shallow	15–25	44.57	9.60	34.97		-91.5	4.57	6.5						26,000	430	5.0 U		1.7	
5/6/2025	Shallow	15–25	44.57	6.95	37.62		210	32.00	4.5						26,000	390	6.0		1.2	
9/23/2025	Shallow	15–25	44.57	8.95	35.62		-139.6	5.61	[2]						26,000	340	5.0 U		2.9	
9/23/2025	Shallow	15–25	44.57	8.95	35.62										26,000	360	5.3		2.4	
BSCSS-MW-42																				
12/14/2018	Intermediate	30–45	--	--	--										850		1.5	3.5	1.2	
1/3/2019	Intermediate	30–45	--	--	--						2,300				720					
3/18/2019	Intermediate	30–45	--	8.79	--		76.4								820		2.0	3.6	0.27	
6/5/2019	Intermediate	30–45	--	9.11	--		5								5,500		5.0 U	6.3		0.20
7/29/2019	Intermediate	30–45	--	9.65	--		-321.9								5,300		8.0	8.1		0.27
10/22/2019	Intermediate	30–45	--	9.29	--		-10.2				7,600						7.3	13		
1/29/2020	Intermediate	30–45	--	8.49	--		-24.8				19,000						5.0 U	14		
4/16/2020	Intermediate	30–45	--	8.88	--		-19.2				25,000						5.0 U	14		
7/24/2020	Intermediate	30–45	--	9.08	--		-34.7				36,000						5.0 U	13		
10/26/2020	Intermediate	30–45	--	9.26	--		-57.1				43,000						5.0 U	15		
3/1/2021	Intermediate	30–45	--	8.33	--		-82.6				42,000						5.0 U	14		
6/11/2021	Intermediate	30–45	--	9.37	--		-96.4				28,000						5.0 U	10		
9/29/2022	Intermediate	30–45	--	12.63	--		-57.5				14,000						6.9	8.1		
2/8/2023	Intermediate	30–45	--	10.73	--		-78.5				20,000						5.0 U	7.5		
9/22/2023	Intermediate	30–45	--	12.15	--		102.7								13,000		5.0 U	5.2		
4/10/2024	Intermediate	30–45	--	11.19	--		-78.2	3.08	5.5						16,000	350	5.0 U		11	
9/26/2024	Intermediate	30–45	50.11	11.97	38.14		-101.2	7.98	5.5						14,000	370	5.4		9.0	
5/6/2025	Intermediate	30–45	50.11	10.40	39.71		170	10.34	5.0						3,900	1,400	47		0.062	
9/23/2025	Intermediate	30–45	50.11	12.21	37.90		-130.8	3.94	6.5						16,000	360	12		8.5	
BSCSS-MW-43R																				
6/23/2021	Shallow	10–25	47.00	7.65	39.35		-143.6				8,900						14	9.2		
9/29/2022	Shallow	10–25	47.00	11.22	35.78		7.9				7,000						35	13		
2/8/2023	Shallow	10–25	47.00	7.89	39.11		31.4				330						51	7.4		
9/22/2023	Shallow	10–25	47.00	10.50	36.50		73.7								8,200		22	20		
4/10/2024	Shallow	10–25	47.00	9.47	37.53		4	3.11	1.5						2,200	1,800	33		0.053 U	

Table 5
All Wells: Groundwater Elevations and Field Parameters

						Analyte Class	Field Parameters (cont.)			Total Metals					Dissolved Metals		Conventionals			
						Analyte	ORP	Turbidity	Ferrous iron	Calcium	Iron	Magnesium	Manganese	Sodium	Iron	Manganese	Sulfate	Chloride	Ammonia	Ammonia
						CAS No.	--	--	15438-31-0	7440-70-2	7439-89-6	7439-95-4	7439-96-5	7440-23-5	7439-89-6	7439-96-5	14808-79-8	16887-00-6	7664-41-7	7664-41-7
						MTCA Method A CUL [1]	--	--	--	--	--	--	--	--	--	--	--	--	--	--
						Unit	mV	NTU	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg-N/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)															
BSCSS-MW-43R																				
9/26/2024	Shallow	10–25	49.79	10.99	38.80		26.7	8.41	4.0						4,000	2,000	22		0.057	
5/6/2025	Shallow	10–25	49.79	11.29	38.50		180	7.55	5.5						16,000	300	5.0 U		8.3	
9/23/2025	Shallow	10–25	49.79	11.10	38.69		2.7	11.75	1.0						900	1,700	59		0.091	
BSCSS-MW-44R																				
6/23/2021	Intermediate	20–30	44.00	8.07	35.93		-143.2				1,600						5.4	6.7		
9/27/2022	Intermediate	20–30	44.00	8.14	35.86		-47.8				4,100						20	7.2		
2/8/2023	Intermediate	20–30	44.00	6.70	37.30		-49.8				6,200						16	8.3		
9/22/2023	Intermediate	20–30	44.00	8.15	35.85		175.8								7,900		14	7.5		
9/26/2024	Intermediate	20–30	44.85	7.79	37.06		-81.2	3.97	4.5						9,800	340	14		3.2	
5/6/2025	Intermediate	20–30	44.85	7.13	37.72		-71.8	9.63	5.5						9,000	290	15		1.7	
9/23/2025	Intermediate	20–30	44.85	7.85	37.00		-203	3.62	3.0						10,000	270	14		1.6	
BSCSS-MW-45R																				
6/23/2021	Shallow	7–17	43.00	8.07	34.93		-95.3				56 U						17	26		
9/1/2022	Shallow	7–17	43.00	7.95	35.05		62.1				65						110	4.9		
2/2/2023	Shallow	7–17	43.00	5.54	37.46		112.4				56 U						87	8.7		
9/19/2023	Shallow	7–17	43.00	8.04	34.96		176.7								56 U		71	6.9		
4/9/2024	Shallow	7–17	44.55	5.67	38.88		-75.8	1.70	5.5						33,000	15,000	5.0 U		1.4	
9/24/2024	Shallow	7–17	44.55	7.85	36.70		-92.1	1.80	1.2						32,000	8,400	5.0 U		0.56	
5/5/2025	Shallow	7–17	44.55	7.23	37.32		88.8	23.50	2.0						8,600	5,400	5.0 U		0.35	
9/22/2025	Shallow	7–17	44.55	10.36	34.19		-212	4.1	3.5						16,000	4,300	5.0 U		0.49	
BSCSS-HZ-MW-1																				
12/19/2018	Shallow	5–15	42.00	6.94	35.06		45								100 U		8.5	3.4	0.10 U	
5/30/2019	Shallow	5–15	42.00	6.81	35.19		15.2								56 U		7.4	5.9		0.050 U
7/29/2019	Shallow	5–15	42.00	7.20	34.80		-70.1								56 U		6.6	4.4		0.050 U
10/21/2019	Shallow	5–15	42.00	7.45	34.55		200				56 U						6.5	5.1		
1/24/2020	Shallow	5–15	42.00	6.39	35.61		86.3				56 U						16	4.0		
4/14/2020	Shallow	5–15	42.00	6.33	35.67		-3.8				56 U						16	6.3		
7/17/2020	Shallow	5–15	42.00	6.88	35.12		71.9				56 U						12	6.0		
10/27/2020	Shallow	5–15	42.00	7.42	34.58		74.3				56 U						15	8.5		
3/4/2021	Shallow	5–15	42.00	5.34	36.66		-18.6				9,000						5.0 U	6.4		
6/15/2021	Shallow	5–15	42.00	7.15	34.85		52.3				56 U						27	8.8		
9/12/2022	Shallow	5–15	42.00	9.90	32.10		-32				5,300						20	8.3		
2/15/2023	Shallow	5–15	42.00	8.64	33.36		-6.9				13,000						18	9.2		
9/20/2023	Shallow	5–15	42.00	9.81	32.19		129.2								18,000		12	10		
4/10/2024	Shallow	5–15	43.71	8.81	34.90		-47.1	5.02	3.5						24,000	5,900	5.0 U		0.059	
9/24/2024	Shallow	5–15	43.71	8.94	34.77		-69.6	6.34	3.0						16,000	5,800	5.0 U		0.074	
5/6/2025	Shallow	5–15	43.71	8.60	35.11		220	9.95	4.8						16,000	7,600	5.0 U		0.054	
9/24/2025	Shallow	5–15	43.71	15.45	28.26		-60.5	9.62	6.0						12,000	6,200	5.0 U		0.063	

Table 5
All Wells: Groundwater Elevations and Field Parameters

						Analyte Class	Field Parameters (cont.)			Total Metals					Dissolved Metals		Conventionals			
						Analyte	ORP	Turbidity	Ferrous iron	Calcium	Iron	Magnesium	Manganese	Sodium	Iron	Manganese	Sulfate	Chloride	Ammonia	Ammonia
						CAS No.	--	--	15438-31-0	7440-70-2	7439-89-6	7439-95-4	7439-96-5	7440-23-5	7439-89-6	7439-96-5	14808-79-8	16887-00-6	7664-41-7	7664-41-7
						MTCA Method A CUL [1]	--	--	--	--	--	--	--	--	--	--	--	--	--	--
						Unit	mV	NTU	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg-N/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)															
BSCSS-HZ-MW-14D																				
12/13/2018	Intermediate	30–40	42.78	6.70	36.08	36									100 U		16	91	0.10 U	
5/21/2019	Intermediate	30–40	42.78	6.16	36.62	-40.7									56 U		10	87		0.050 U
7/29/2019	Intermediate	30–40	42.78	6.92	35.86	-86.5									56 U		11	69		0.050 U
10/16/2019	Intermediate	30–40	42.78	7.70	35.08	143.8					56 U						9.3	75		
1/22/2020	Intermediate	30–40	42.78	5.98	36.80	132.8					56 U						11	65		
4/15/2020	Intermediate	30–40	42.78	6.14	36.64	14.4					56 U						13	52		
7/21/2020	Intermediate	30–40	42.78	6.78	36.00	104.2					76						14	44		
10/28/2020	Intermediate	30–40	42.78	7.34	35.44	135.5					180						13	29		
3/4/2021	Intermediate	30–40	42.78	5.84	36.94	39.4					260						14	27		
6/15/2021	Intermediate	30–40	42.78	6.88	35.90	-9.2					650						20	17		
9/6/2022	Intermediate	30–40	42.78	9.30	33.48	44.1					170						12	9.5		
2/3/2023	Intermediate	30–40	42.78	8.36	34.42	70.8					380						10	11		
9/21/2023	Intermediate	30–40	42.78	9.60	33.18	234.8									390		10	9.6		
4/9/2024	Intermediate	30–40	44.49	8.55	35.94	82.6	1.10		[2]						440	440	7.8		0.053 U	
9/24/2024	Intermediate	30–40	44.49	9.51	34.98	56.7	2.88		1.2						720	810	8.7		0.053 U	
5/6/2025	Intermediate	30–40	44.49	9.02	35.47	90.3	6.33		0.5						600	670	11		0.053 U	
9/23/2025	Intermediate	30–40	44.49	12.12	32.37	25.9	5.69		1.0						690	820	14		0.053 U	
BSCSS-HZ-MW-14S																				
12/13/2018	Shallow	5–15	42.77	6.23	36.54	20.4									100 U		22	7.3	0.10 U	
5/21/2019	Shallow	5–15	42.77	6.43	36.34	-26.3									490		21	7.2		0.050 U
7/25/2019	Shallow	5–15	42.77	6.31	36.46	-57.4									160		18	7.8		0.53
10/16/2019	Shallow	5–15	42.77	6.99	35.78	103.9					56 U						17	8.0		
1/22/2020	Shallow	5–15	42.77	5.65	37.12	115					56 U						19	9.5		
4/15/2020	Shallow	5–15	42.77	5.76	37.01	11.5					56 U						18	8.1		
7/21/2020	Shallow	5–15	42.77	7.45	35.32	79.6					56 U						19	8.6		
10/23/2020	Shallow	5–15	42.77	7.13	35.64	114					56 U						19	7.4		
3/3/2021	Shallow	5–15	42.77	4.33	38.44	96.5					56 U						13	4.1		
6/15/2021	Shallow	5–15	42.77	6.80	35.97	-4.9					510						13	6.7		
9/6/2022	Shallow	5–15	42.77	9.45	33.32	5.9					650						18	10		
2/21/2023	Shallow	5–15	42.77	8.50	34.27	66.1				36,000	2,900	14,000	520	12,000			15	6.6		
9/21/2023	Shallow	5–15	42.77	9.63	33.14	208.6									3,900		15	8.3		
4/9/2024	Shallow	5–15	44.61	8.70	35.91	30	2.21		4.5						6,400	690	17		0.053 U	
9/24/2024	Shallow	5–15	44.61	9.23	35.38	44.4	16.30		4.0						4,600	870	13		0.053 U	
5/6/2025	Shallow	5–15	44.61	9.13	35.48	190	2.17		6.0						4,700	820	24		0.058	
9/23/2025	Shallow	5–15	44.61	11.22	33.39	-18.2	10.06		4.5						4,600	700	26		0.053 U	
BSCSS-HZ-MW-15D																				
12/27/2018	Intermediate	20–30	42.00	4.23	37.77	52.4									100 U		26	14	0.10 U	
6/4/2019	Intermediate	20–30	42.00	6.11	35.89	20.9									56 U		23	14		0.050 U
7/23/2019	Intermediate	20–30	42.00	6.83	35.17	-56.6									56 U		21	13		0.050 U
10/17/2019	Intermediate	20–30	42.00	7.02	34.98	173.5					100						18	13		
1/22/2020	Intermediate	20–30	42.00	6.05	35.95	88.9					56 U						13	16		
4/15/2020	Intermediate	20–30	42.00	6.67	35.33	32.4					120						9.6	16		

Table 5
All Wells: Groundwater Elevations and Field Parameters

						Analyte Class	Field Parameters (cont.)			Total Metals					Dissolved Metals		Conventionals			
						Analyte	ORP	Turbidity	Ferrous iron	Calcium	Iron	Magnesium	Manganese	Sodium	Iron	Manganese	Sulfate	Chloride	Ammonia	Ammonia
						CAS No.	--	--	15438-31-0	7440-70-2	7439-89-6	7439-95-4	7439-96-5	7440-23-5	7439-89-6	7439-96-5	14808-79-8	16887-00-6	7664-41-7	7664-41-7
						MTCA Method A CUL [1]	--	--	--	--	--	--	--	--	--	--	--	--	--	--
						Unit	mV	NTU	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg-N/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)															
BSCSS-HZ-MW-15D (cont.)																				
7/22/2020	Intermediate	20–30	42.00	6.45	35.55	80.8				150						12	14		
10/23/2020	Intermediate	20–30	42.00	6.79	35.21	108.6				56 U						11	15		
3/3/2021	Intermediate	20–30	42.00	6.23	35.77	109.4				56 U						18	13		
6/22/2021	Intermediate	20–30	42.00	5.80	36.20	-34.9				120						15	14		
9/8/2022	Intermediate	20–30	42.00	9.44	32.56	19				56 U						14	9.4		
2/21/2023	Intermediate	20–30	42.00	8.30	33.70	89.9			48,000	56 U	20,000	120	15,000			15	8.8		
9/20/2023	Intermediate	20–30	42.00	9.68	32.32	204.9								56 U		16	7.6		
4/10/2024	Intermediate	20–30	44.60	8.61	35.99	85	1.11	0.5						160	200	15		0.053 U	
9/24/2024	Intermediate	20–30	44.60	9.58	35.02	76.5	3.88	0.5						200	290	11		0.053 U	
5/5/2025	Intermediate	20–30	44.60	9.10	35.50	190	2.18	0.5						340	340	14		0.053 U	
9/22/2025	Intermediate	20–30	44.60	10.88	33.72	-125.9	2.98	5.0						17,000	1,500	5.0 U		26	
BSCSS-HZ-MW-15S																				
12/27/2018	Shallow	10–15	42.07	4.40	37.67	38.5								100 U		20	2.9	0.10 U	
6/4/2019	Shallow	10–15	42.07	4.92	37.15	-10.7								56 U		16	3.0		0.050 U
7/23/2019	Shallow	10–15	42.07	5.66	36.41	-69.1								56 U		13	3.6		0.050 U
10/17/2019	Shallow	10–15	42.07	5.87	36.20	189				56 U						13	5.1		
1/22/2020	Shallow	10–15	42.07	4.02	38.05	129.5				56 U						12	3.0		
4/15/2020	Shallow	10–15	42.07	4.51	37.56	17.6				56 U						14	2.1		
7/22/2020	Shallow	10–15	42.07	5.85	36.22	66.2				56 U						14	2.3		
10/23/2020	Shallow	10–15	42.07	6.23	35.84	112.3				56 U						14	3.3		
3/3/2021	Shallow	10–15	42.07	4.82	37.25	111.3				56 U						12	3.7		
6/22/2021	Shallow	10–15	42.07	5.77	36.30	-5.8				56 U						9.5	4.0		
9/6/2022	Shallow	10–15	42.07	9.30	32.77	-9.7				11,000						5.0 U	6.1		
2/15/2023	Shallow	10–15	42.07	7.95	34.12	44.6				6,500						8.3	6.9		
9/20/2023	Shallow	10–15	42.07	9.33	32.74	169.9								1,500		18	9.1		
4/9/2024	Shallow	10–15	44.73	8.33	36.40	90.5	1.79	0.5						430	740	32		0.053 U	
9/23/2024	Shallow	10–15	44.73	8.82	35.91	67.2	0.85	0.5						310	690	25		0.053 U	
5/5/2025	Shallow	10–15	44.73	8.58	36.15	5.1	36.30	4.0						3,500	1,300	18		0.053 U	
9/22/2025	Shallow	10–15	44.73	10.67	34.06	-219.2	9.42	1.5						4,700	3,900	5.0 U		0.053 U	
BSCSS-HZ-MW-24																				
12/10/2018	Intermediate	25–35	41.53	6.04	35.49	-1.4								830		10	7.2	0.10 U	
5/31/2019	Intermediate	25–35	41.53	6.06	35.47	-11.7								8,500		5.0 U	13		0.19
7/17/2019	Intermediate	25–35	41.53	7.10	34.43	-167.7								15,000		7.8	13		0.39
10/24/2019	Intermediate	25–35	41.53	6.82	34.71	10				20,000						5.0 U	14		
1/27/2020	Intermediate	25–35	41.53	5.71	35.82	35.3				14,000						5.0 U	15		
4/14/2020	Intermediate	25–35	41.53	6.01	35.52	-13.9				14,000						13	19		
7/22/2020	Intermediate	25–35	41.53	6.78	34.75	3.7				11,000						22	17		
10/28/2020	Intermediate	25–35	41.53	6.91	34.62	26.6				10,000						23	14		
3/2/2021	Intermediate	25–35	41.53	5.18	36.35	19.9				6,000						23	9.7		
6/18/2021	Intermediate	25–35	41.53	6.50	35.03	-154.6				8,000						23	6.1		

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						Field Parameters (cont.)			Total Metals					Dissolved Metals		Conventionals			
Analyte						ORP	Turbidity	Ferrous iron	Calcium	Iron	Magnesium	Manganese	Sodium	Iron	Manganese	Sulfate	Chloride	Ammonia	Ammonia
CAS No.						--	--	15438-31-0	7440-70-2	7439-89-6	7439-95-4	7439-96-5	7440-23-5	7439-89-6	7439-96-5	14808-79-8	16887-00-6	7664-41-7	7664-41-7
MTCA Method A CUL [1]						--	--	--	--	--	--	--	--	--	--	--	--	--	--
Unit						mV	NTU	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg-N/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)														
BSCSS-HZ-MW-24 (cont.)																			
9/20/2022	Intermediate	25–35	41.53	5.60	35.93	-53				4,400						18	11		
2/7/2023	Intermediate	25–35	41.53	1.90	39.63	-7				7,600						23	7.0		
9/8/2023	Intermediate	25–35	41.53	5.61	35.92	80.3								9,500		26	8.0		
4/10/2024	Intermediate	25–35	39.78	4.78	35.00	-30.4	0.59	6.5						9,900	5,200	13		0.48	
9/24/2024	Intermediate	25–35	39.78	5.59	34.19	-47.8	1.87	4.0						10,000	4,400	30		0.33	
5/7/2025	Intermediate	25–35	39.78	5.30	34.48	140	23.60	6.0						7,600	5,400	28		0.32	
9/24/2025	Intermediate	25–35	39.78	6.40	33.38	-106.6	1.11	3.0						8,500	3,900	29		0.22	
BSCSS-HZ-MW-26																			
12/4/2018	Intermediate	25–35	41.30	7.23	34.07	75.6								100 U		25	8.1	0.10 U	
5/30/2019	Intermediate	25–35	41.30	6.85	34.45	17								56 U		28	9.3		0.050 U
7/29/2019	Intermediate	25–35	41.30	7.34	33.96	-96.7								56 U		23	9.3		0.063
10/16/2019	Intermediate	25–35	41.30	7.91	33.39	152.3				56 U						24	11		
1/24/2020	Intermediate	25–35	41.30	6.86	34.44	36.3				56 U						23	14		
4/13/2020	Intermediate	25–35	41.30	6.33	34.97	-4.8				56 U						24	14		
7/17/2020	Intermediate	25–35	41.30	6.82	34.48	-13.7				56 U						24	13		
10/27/2020	Intermediate	25–35	41.30	7.34	33.96	110.7				56 U						27	13		
3/5/2021	Intermediate	25–35	41.30	6.66	34.64	84.4				56 U						13	7.0		
6/14/2021	Intermediate	25–35	41.30	6.99	34.31	13				56 U						23	13		
6/22/2021	Intermediate	25–35	41.30	--	--					120						23	12		
9/8/2022	Intermediate	25–35	41.30	11.98	29.32	43.3				56 U						23	11		
2/21/2023	Intermediate	25–35	41.30	9.83	31.47	121.7			34,000	56 U	17,000	63	12,000			21	13		
9/12/2023	Intermediate	25–35	41.30	11.14	30.16	315.8								56 U		22	14		
4/10/2024	Intermediate	25–35	44.48	10.16	34.32	102.9	2.33	0						56 U	63	22		0.053 U	
9/23/2024	Intermediate	25–35	44.48	11.14	33.34	146.4	0.55	0						56 U	75	23		0.053 U	
5/7/2025	Intermediate	25–35	44.48	10.77	33.71	100	0.87	0						56 U	15	23		0.053 U	
9/24/2025	Intermediate	25–35	44.48	12.79	31.69	145.1	0	0						55 U	83	22		0.053 U	
BSCSS-HZ-MW-29																			
12/10/2018	Intermediate	25–35	40.74	5.68	35.06	3.5								2,100		18	17	0.10 U	
5/31/2019	Intermediate	25–35	40.74	6.29	34.45	-2.3								10,000		5.0 U	18		0.65
7/17/2019	Intermediate	25–35	40.74	7.03	33.71	-93.7								9,300		5.0 U	16		0.76
10/24/2019	Intermediate	25–35	40.74	7.98	32.76	-9.6				9,500						5.0 U	13		
1/27/2020	Intermediate	25–35	40.74	6.41	34.33	42.1				12,000						6.9	14		
4/13/2020	Intermediate	25–35	40.74	6.31	34.43	-76.4				11,000						8.3	14		
7/17/2020	Intermediate	25–35	40.74	10.22	30.52	-49.1				10,000						5.0 U	13		
10/28/2020	Intermediate	25–35	40.74	6.88	33.86	-52.5				17,000						5.0 U	15		
3/5/2021	Intermediate	25–35	40.74	5.47	35.27	-144.6				17,000						5.4	15		
6/22/2021	Intermediate	25–35	40.74	6.70	34.04	-130.1				13,000						10	11		
9/20/2022	Intermediate	25–35	40.74	6.35	34.39	-35.4				9,200						16	10		
2/7/2023	Intermediate	25–35	40.74	5.16	35.58	-37.7				9,700						20	8.1		
9/8/2023	Intermediate	25–35	40.74	6.44	34.30	35.7								8,700		23	7.2		
4/10/2024	Intermediate	25–35	39.67	5.48	35.26	-48.5	1.50	[2]						13,000	2,900	30		0.40	
9/24/2024	Intermediate	25–35	39.67	6.30	34.44	-70.8	1.49	3.6						8,400	2,100	18		0.28	
5/7/2025	Intermediate	25–35	39.67	5.89	33.78	-41.6	4.84	3.5						4,500	1,500	20		0.16	
9/24/2025	Intermediate	25–35	39.67	7.55	32.12	-106.3	2.69	5.0						6,100	1,500	21		0.15	

Table 5
All Wells: Groundwater Elevations and Field Parameters

						Analyte Class	Field Parameters (cont.)			Total Metals					Dissolved Metals		Conventionals			
						Analyte	ORP	Turbidity	Ferrous iron	Calcium	Iron	Magnesium	Manganese	Sodium	Iron	Manganese	Sulfate	Chloride	Ammonia	Ammonia
						CAS No.	--	--	15438-31-0	7440-70-2	7439-89-6	7439-95-4	7439-96-5	7440-23-5	7439-89-6	7439-96-5	14808-79-8	16887-00-6	7664-41-7	7664-41-7
						MTCA Method A CUL [1]	--	--	--	--	--	--	--	--	--	--	--	--	--	--
						Unit	mV	NTU	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg-N/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)															
BSCSS-HZ-MW-31																				
12/18/2018	Shallow	15–25	37.00	9.40	27.60	2								1,900		8.7	8.8	0.30	
5/29/2019	Shallow	15–25	37.00	9.34	27.66	19.8								20,000		5.0 U	8.7		0.26
7/23/2019	Shallow	15–25	37.00	9.45	27.55	-64								19,000		5.0 U	8.3		0.27
10/25/2019	Shallow	15–25	37.00	9.16	27.84	23.1				19,000						5.0 U	6.3		
1/28/2020	Shallow	15–25	37.00	8.75	28.25	69.1				18,000						5.0 U	6.7		
4/27/2020	Shallow	15–25	37.00	24.75	12.25	33.6				19,000						5.0 U	5.8		
7/29/2020	Shallow	15–25	37.00	9.02	27.98	-4.3								19,000		5.0 U	6.7		
10/29/2020	Shallow	15–25	37.00	9.21	27.79	-18.3				19,000						5.0 U	6.5		
3/5/2021	Shallow	15–25	37.00	8.30	28.70	-24.8				210						5.0 U	11		
6/21/2021	Shallow	15–25	37.00	6.35	30.65	-94.7				19,000						5.0 U	6.1		
9/29/2022	Shallow	15–25	37.00	9.06	27.94	-24.53				23,000						5.0 U	9.5		
2/6/2023	Shallow	15–25	37.00	8.20	28.80	-47.9				24,000						5.0 U	8.3		
9/26/2023	Shallow	15–25	37.00	8.61	28.39	111.2								23,000		7.9	7.1		
9/26/2024	Shallow	15–25	37.00	8.70	28.30	-78.6	21.00	3.6						28,000	430	26		0.40	
5/6/2025	Shallow	15–25	37.00	8.48	28.52	74.2	6.67	3.0						24,000	360	29		0.31	
9/23/2025	Shallow	15–25	37.00	9.39	27.61	-104.5	8.01	4.0						33,000	290	31		0.38	
BSCSS-HZ-MW-33R																				
8/11/2021	Intermediate	25–35	35.00	7.93	27.07	102.6				56 U						11	6.3		
10/3/2022	Intermediate	25–35	35.00	--	--	106.3				190						12	5.2		
2/7/2023	Intermediate	25–35	35.00	--	--	146.8				56 U						11	4.7		
9/21/2023	Intermediate	25–35	35.00	--	--	216.1								56 U		9.7	4.0		
4/11/2024	Intermediate	25–35	35.00	--	--	105.9	0.92	0						56 U	65	10		0.053 U	
9/24/2024	Intermediate	25–35	38.38	--	--	82.5	0.88	0						3,900	1,400	6.9		0.053 U	
5/7/2025	Intermediate	25–35	38.38	--	--	240	0.70	0						56 U	76	6.9		0.053 U	
9/23/2025	Intermediate	25–35	38.38	--	--	118.7	0	0						55 U	54	11		0.053 U	
BSCSS-HZ-MW-34																				
12/7/2018	Shallow	15–25	37.00	5.77	31.23	0.9								5,800		7.8	14	0.10 U	
5/31/2019	Shallow	15–25	37.00	5.88	31.12	-17.2								10,000		5.7	13		0.050 U
7/17/2019	Shallow	15–25	37.00	6.41	30.59	-158.7								11,000		5.2	13		0.050 U
10/23/2019	Shallow	15–25	37.00	6.60	30.40	24.7				4,900						17	9.0		
1/27/2020	Shallow	15–25	37.00	5.22	31.78	48.8				6,200						5.0 U	14		
4/14/2020	Shallow	15–25	37.00	5.83	31.17	-21.8				11,000						5.1	13		
7/21/2020	Shallow	15–25	37.00	6.78	30.22	-42.7				6,700						5.0 U	12		
10/28/2020	Shallow	15–25	37.00	6.74	30.26	-19.7				9,300						11	9.5		
3/2/2021	Shallow	15–25	37.00	5.15	31.85	-43.5				11,000						17	8.8		
6/18/2021	Shallow	15–25	37.00	6.35	30.65	-135.1				3,700						71	4.1		
9/20/2022	Shallow	15–25	37.00	5.50	31.50	-4.2				4,500						21	7.0		
2/7/2023	Shallow	15–25	37.00	2.40	34.60	-22.4				4,000						21	11		
9/8/2023	Shallow	15–25	37.00	5.54	31.46	75.8								3,900		20	15		
4/10/2024	Shallow	15–25	39.69	4.64	35.05	-13	4.25	2.0						2,100	730	23		0.053 U	
9/24/2024	Shallow	15–25	39.69	5.52	34.17	46.6	3.98	2.0						1,900	590	27		0.056	
5/7/2025	Shallow	15–25	39.69	5.18	34.51	240	5.19	1.5						1,600	640	30		0.053 U	
9/24/2025	Shallow	15–25	39.69	6.72	32.97	-16.7	1.22	1.5						2,200	670	32		0.061	

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						Field Parameters (cont.)			Total Metals					Dissolved Metals		Conventionals			
Analyte						ORP	Turbidity	Ferrous iron	Calcium	Iron	Magnesium	Manganese	Sodium	Iron	Manganese	Sulfate	Chloride	Ammonia	Ammonia
CAS No.						--	--	15438-31-0	7440-70-2	7439-89-6	7439-95-4	7439-96-5	7440-23-5	7439-89-6	7439-96-5	14808-79-8	16887-00-6	7664-41-7	7664-41-7
MTCA Method A CUL [1]						--	--	--	--	--	--	--	--	--	--	--	--	--	--
Unit						mV	NTU	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg-N/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)														
BSCSS-S-MW-1																			
6/6/2019	Shallow	5.5–15.5	43.53	6.00	37.53	5								56 U		50	4.6		0.050 U
7/23/2019	Shallow	5.5–15.5	43.53	6.61	36.92	-74.5								56 U		26	4.8		0.15
10/23/2019	Shallow	5.5–15.5	43.53	6.18	37.35	164.3				56 U						23	4.2		
1/21/2020	Shallow	5.5–15.5	43.53	4.78	38.75	105.9				56 U						42	3.7		
4/23/2020	Shallow	5.5–15.5	43.53	5.01	38.52	1.3				56 U						57	4.4		
7/28/2020	Shallow	5.5–15.5	43.53	6.97	36.56	87.5				56 U						39	4.3		
11/2/2020	Shallow	5.5–15.5	43.53	7.30	36.23	88.9				56 U						64	3.6		
3/1/2021	Shallow	5.5–15.5	43.53	4.99	38.54	73.2				56 U						28	2.3		
6/14/2021	Shallow	5.5–15.5	43.53	7.23	36.30	60.2				56 U						25	2.7		
9/27/2022	Shallow	5.5–15.5	43.53	8.55	34.98	204.4				110						33	2.7		
2/16/2023	Shallow	5.5–15.5	43.53	6.87	36.66	193.5				56 U						40	2.8		
9/7/2023	Shallow	5.5–15.5	43.53	8.71	34.82	167.3								180		37	5.2		
9/25/2024	Shallow	5.5–15.5	45.25	8.29	36.96	125	7.99							56 U	11 U	76		0.053 U	
5/6/2025	Shallow	5.5–15.5	45.25	8.53	36.72	150	48.10	0						56 U	11 U	72		0.053 U	
9/23/2025	Shallow	5.5–15.5	45.25	10.04	35.21	154.3	396	0						55 U	10 U	50		0.053 U	
BSCSS-S-MW-2RR																			
8/5/2021	Shallow	5–15	39.00	6.65	32.35	-41.3				500						21	4.8		
9/8/2022	Shallow	5–15	39.00	8.60	30.40	-61.1				760						58	2.0 U		
2/10/2023	Shallow	5–15	39.00	6.85	32.15	-58.2				1,200						76	54		
9/12/2023	Shallow	5–15	39.00	8.88	30.12	68.6								2,000		84	34		
4/10/2024	Shallow	5–15	44.65	7.51	37.14	-60.6	1.64	3.5						3,000	3,100	430		6.6	
9/23/2024	Shallow	5–15	44.65	8.93	35.72	-97.1	0.82	2.0						2,500	1,900	120		6.0	
5/7/2025	Shallow	5–15	44.65	7.42	37.23	-160	1.03	[2]						2,100	2,600	78		6.3	
9/22/2025	Shallow	5–15	44.65	9.10	35.55	-258.4	0.67	2.0						2,200	1,600	120		4.4	
BSCSS-S-MW-3RR																			
8/20/2021	Intermediate	24–39	40.00	11.12	28.88	-317.2				56 U						17	10		
10/14/2022	Intermediate	24–39	40.00	--	--	192.1				56 U						19	3.3		
2/10/2023	Intermediate	24–39	40.00	13.90	26.10	44.7				120						18	3.7		
2/17/2024	Intermediate	24–39	40.00	9.11	30.89	11.6								56 U		29	4.1		
4/10/2024	Intermediate	24–39	40.00	10.58	29.42	-9.3	32.20	2.0						1,400	2,400	21		0.054	
BSCSS-S-MW-3RRR																			
9/26/2024	Intermediate	--	45.91	11.30	34.61	-44.1	45.20	0						56 U	510	27		0.053 U	
5/7/2025	Intermediate	--	45.91	12.30	33.61	100	4.36	0.5						430	410	23		0.053 U	
9/23/2025	Intermediate	--	45.91	13.20	32.71	122.7	2.73	[2]						400	400	24		0.053 U	
BSCSS-S-MW-5R																			
8/11/2021	Shallow	15–25	39.00	8.30	30.70	109				56 U						14	4.8		
10/3/2022	Shallow	15–25	39.00	10.88	28.12	108.3				56 U						20	4.6		
2/10/2023	Shallow	15–25	39.00	7.14	31.86	113.7				56 U						20	4.5		
9/12/2023	Shallow	15–25	39.00	8.59	30.41	346.9								56 U		20	2.5		

Table 5
All Wells: Groundwater Elevations and Field Parameters

					Analyte Class	Field Parameters (cont.)			Total Metals					Dissolved Metals		Conventionals			
					Analyte	ORP	Turbidity	Ferrous iron	Calcium	Iron	Magnesium	Manganese	Sodium	Iron	Manganese	Sulfate	Chloride	Ammonia	Ammonia
					CAS No.	--	--	15438-31-0	7440-70-2	7439-89-6	7439-95-4	7439-96-5	7440-23-5	7439-89-6	7439-96-5	14808-79-8	16887-00-6	7664-41-7	7664-41-7
					MTCA Method A CUL [1]	--	--	--	--	--	--	--	--	--	--	--	--	--	--
					Unit	mV	NTU	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg-N/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)														
BSCSS-S-MW-5R																			
4/10/2024	Shallow	15–25	43.66	7.56	36.10	124	0.64	0						56 U	170	22		0.053 U	
9/23/2024	Shallow	15–25	43.66	8.39	35.27	72.8	1.87	0						56 U	220	25		0.053 U	
5/5/2025	Shallow	15–25	43.66	7.97	35.69	230	0.64	0						56 U	55	24		0.053 U	
9/22/2025	Shallow	15–25	43.66	15.45	28.21	-60.5	9.62	1.5						57,000	2,600	5.0 U		120	

Notes:

All blank cells are intentional.
All chemistry results are rounded to two significant figures.
Field parameters are reported as displayed by the sampling equipment.
-- Not available.
Italic Analyte was not detected at a reporting limit greater than the CUL.
RED/BOLD Analyte was detected at a concentration greater than the CUL.
Well is inactive or decommissioned.
1 CULs are based on MTCA Method A values, except for cis- and trans-1,2-dichloroethene, which use MTCA Method B.
2 Ferrous iron result not recorded.

Abbreviations:

bgs Below ground surface
BTOC Below top of casing
°C Degrees Celsius
CAS Chemical Abstracts Service
CUL Cleanup level
µg/L Micrograms per liter
µS/cm Microsiemens per centimeter
mg/L Milligrams per liter
mg-N/L Milligrams of nitrogen per liter
MTCA Model Toxics Control Act
mV Millivolts
NAVD 88 North American Vertical Datum of 1988
NTU Nephelometric turbidity units
ORP Oxidation–reduction potential
TOC Top of casing
VOC Volatile organic compound

Qualifiers:

J Analyte was detected; concentration is an estimate.
U Analyte was not detected at the associated reporting limit.
UJ Analyte was not detected at the associated reporting limit, which is an estimate.

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						Conventionals (cont.)					Dissolved Gases		
Analyte						Ammonia (total as nitrogen)	Nitrate	Sulfide	Total Organic Carbon	Orthophosphate	Methane	Ethane	Ethene
CAS No.						--	14797-55-8	18496-25-8	TOC	14265-44-2	74-82-8	74-84-0	74-85-1
MTCA Method A CUL [1]						--	--	--	--	--	--	--	--
Unit						mg/L	mg-N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)								
BSCSS-MW-4R													
8/2/2021	Shallow	10–25	42.00	9.33	32.67	0.050 U			3.8		3.4	0.00022 U	0.00029 U
8/30/2022	Shallow	10–25	42.00	7.68	34.32	0.050 U			6.1		15	0.00022 U	0.00029 U
2/20/2023	Shallow	10–25	42.00	6.46	35.54	0.050 U			3.0		9.9	0.00022 U	0.00029 U
9/15/2023	Shallow	10–25	42.00	7.89	34.11	0.061			2.4		11	0.00022 U	0.0037
4/9/2024	Shallow	10–25	44.56	6.90	37.66		0.069		3.2	0.096	6.1	0.00056 U	0.00058 U
9/25/2024	Shallow	10–25	44.56	7.58	36.98		0.050 U	0.46 J	59	0.23	6.3	0.00056 U	0.022
5/5/2025	Shallow	10–25	44.56	7.05	37.51		0.050 U		22	0.16	3,100	0.00056 U	0.0041
9/22/2025	Shallow	10–25	44.56	8.26	36.30		0.077		3.5	0.26	16	0.00056 U	0.053
BSCSS-MW-5R													
8/3/2021	Shallow	10–25	42.00	8.30	33.70	0.050 U			2.1		1.3	0.00022 U	0.00029 U
9/1/2022	Shallow	10–25	42.00	8.64	33.36	0.050 U			1.4		6.5	0.00022 U	0.00029 U
2/20/2023	Shallow	10–25	42.00	8.90	33.10	0.050 U			1.2		7.1	0.00022 U	0.00029 U
9/20/2023	Shallow	10–25	42.00	8.63	33.37	0.050 U			1.1		8.6	0.00022 U	0.00029 U
4/9/2024	Shallow	10–25	44.68	7.70	36.98		0.25		1.7	0.012 U	5.6	0.00056 U	0.00058 U
9/25/2024	Shallow	10–25	44.68	7.90	36.78		0.050 U	0.050 U	2.1	0.061	6.7	0.00056 U	0.00058 U
5/5/2025	Shallow	10–25	44.68	7.59	37.09		0.050 U		2.8	0.10	2,300	0.00056 U	0.00058 U
9/22/2025	Shallow	10–25	44.68	9.44	35.24		0.050 U		1.4	0.073	7.2	0.00056 U	0.00058 U
BSCSS-MW-6													
12/21/2018	Shallow	10–25	47.57	8.79	38.78				14		0.081 UJ	0.16 U	0.15 U
2/22/2019	Shallow	10–25	47.57	7.79	39.78				13		0.71	0.016 U	0.015 U
5/22/2019	Shallow	10–25	47.57	8.46	39.11				20		1.0	0.0012	0.00050 U
7/25/2019	Shallow	10–25	47.57	9.06	38.51				22		0.73	0.00050 U	0.019
10/21/2019	Shallow	10–25	47.57	8.76	38.81	0.12			19		2.3	0.00050 U	0.00094
1/22/2020	Shallow	10–25	47.57	7.77	39.80	0.11			8.4		4.3	0.00022 U	0.028
4/17/2020	Shallow	10–25	47.57	8.19	39.38	0.10			10		0.76	0.00022 U	0.015
7/20/2020	Shallow	10–25	47.57	8.28	39.29	0.16			49		10	0.00022 U	0.071
10/19/2020	Shallow	10–25	47.57	8.83	38.74	3.9			63		8.8	0.00022 U	0.026
2/23/2021	Shallow	10–25	47.57	8.23	39.34	2.3			14		13	0.00022 U	0.016
6/15/2021	Shallow	10–25	47.57	9.37	38.20	4.0			10		2.9	0.00022 U	0.0048
9/12/2022	Shallow	10–25	47.57	--	--	3.5			8.0		4.3	0.0023	0.00029 U
2/20/2023	Shallow	10–25	47.57	--	--	4.0			14		6.6	0.00022 U	0.00029 U
9/14/2023	Shallow	10–25	47.57	--	--	2.6			14		9.8	0.00022 U	0.0019
4/9/2024	Shallow	10–25	44.77	--	--		0.11		13	0.92	6.5	0.00056 U	0.0023
9/25/2024	Shallow	10–25	44.77	--	--		0.050 U	0.18 J	9.4	1.3	4.8	0.00056 U	0.0028
5/7/2025	Shallow	10–25	44.77	--	--		0.061		9.4	1.1	2,000	0.00056 U	0.00058 U
9/24/2025	Shallow	10–25	44.77	--	--		0.050 U		9.4	0.81	2.2	0.00056 U	0.00058 U

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						Conventionals (cont.)					Dissolved Gases		
Analyte						Ammonia (total as nitrogen)	Nitrate	Sulfide	Total Organic Carbon	Orthophosphate	Methane	Ethane	Ethene
CAS No.						--	14797-55-8	18496-25-8	TOC	14265-44-2	74-82-8	74-84-0	74-85-1
MTCA Method A CUL [1]						--	--	--	--	--	--	--	--
Unit						mg/L	mg-N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)								
BSCSS-MW-7													
5/24/2019	Shallow	10–25	45.96	7.96	38.00				2.3		0.049	0.0030 U	0.0030 U
6/18/2021	Shallow	10–25	45.96	8.73	37.23	0.056			2.5		3.2	0.00022 U	0.00029 U
9/28/2022	Shallow	10–25	45.96	8.41	37.55	0.078			3.1		12	0.00022 U	0.0032
2/21/2023	Shallow	10–25	45.96	7.05	38.91	0.050 U			3.2		4.6	0.00022 U	0.00029 U
9/15/2023	Shallow	10–25	45.96	8.34	37.62	0.050 U			12		9.2	0.00022 U	0.00029 U
4/9/2024	Shallow	10–25	44.51	7.33	37.18		0.064		3.0	0.015	6.6	0.00056 U	0.00058 U
9/25/2024	Shallow	10–25	44.51	8.23	36.28		0.065	0.53 J	28	0.092	6.2	0.00056 U	0.0017
5/7/2025	Shallow	10–25	44.51	7.90	36.61		0.050 U		8.3	0.084	2,100	0.00056 U	0.0017
9/24/2025	Shallow	10–25	44.51	9.02	35.49		0.053		13	0.10	3.5	0.00056 U	0.0097
9/24/2025	Shallow	10–25	44.51	9.02	35.49		0.069		12	0.11	3.3	0.00056 U	0.012
BSCSS-MW-11													
12/20/2018	Intermediate	25–33	47.68	8.56	39.12				9.0		0.11	0.16 U	0.15 U
2/21/2019	Intermediate	25–33	47.68	7.90	39.78				24		0.87	0.016 U	0.015 U
5/22/2019	Intermediate	25–33	47.68	8.48	39.20				27		0.49	0.00050 U	0.00050 U
7/25/2019	Intermediate	25–33	47.68	9.12	38.56				26		1.1	0.00050 U	0.00050 U
10/21/2019	Intermediate	25–33	47.68	8.92	38.76	0.050 U			34		1.0	0.00050 U	0.00050 U
1/22/2020	Intermediate	25–33	47.68	8.09	39.59	1.3			11		2.0	0.00022 U	0.0052
4/17/2020	Intermediate	25–33	47.68	8.49	39.19	0.25			17		0.062	0.00022 U	0.0068
7/20/2020	Intermediate	25–33	47.68	8.74	38.94	0.28			92		15	0.00022 U	0.050
10/19/2020	Intermediate	25–33	47.68	9.00	38.68	5.1			60		9.7	0.00022 U	0.019
2/26/2021	Intermediate	25–33	47.68	8.02	39.66	3.5			7.4		11	0.00022 U	0.018
6/15/2021	Intermediate	25–33	47.68	9.24	38.44	1.5			6.7		1.6	0.00022 U	0.0049
9/28/2022	Intermediate	25–33	47.68	7.50	40.18	0.27			3.8		3.0	0.00022 U	0.0032
2/20/2023	Intermediate	25–33	47.68	6.10	41.58	0.20			4.1		1.6	0.00022 U	0.0039
9/14/2023	Intermediate	25–33	47.68	7.51	40.17	0.17			3.0		0.81	0.00022 U	0.0016
4/9/2024	Intermediate	25–33	44.75	6.52	38.23		0.050 U		4.0	0.31	1.1	0.00056 U	0.0024
9/24/2024	Intermediate	25–33	44.75	7.12	37.63		0.050 U		3.9	0.23	2.0	0.00056 U	0.0011
5/7/2025	Intermediate	25–33	44.75	6.73	38.02		0.050 U		4.1	0.21	360	0.00056 U	0.0010
9/22/2025	Intermediate	25–33	44.75	7.63	37.12		0.050 U		4.2	0.20	1.1	0.00056 U	0.0098
BSCSS-MW-12													
5/24/2019	Intermediate	25–33	45.84	7.92	37.92				2.5		3.7	0.25 U	0.25 U
7/22/2019	Intermediate	25–33	45.84	8.40	37.44				2.8		3.2	0.00050 U	0.00050 U
10/18/2019	Intermediate	25–33	45.84	9.07	36.77	0.050 U			2.1		3.3	0.00050 U	0.00050 U
1/27/2020	Intermediate	25–33	45.84	7.80	38.04	0.050 U			2.3		2.4	0.00022 U	0.00029 U
4/21/2020	Intermediate	25–33	45.84	7.64	38.20	0.050 U			2.9		3.6	0.00022 U	0.00029 U
7/22/2020	Intermediate	25–33	45.84	6.45	39.39	0.050 U			3.3		7.5	0.00022 U	0.00029 U
10/21/2020	Intermediate	25–33	45.84	8.83	37.01	0.050 U			3.4		7.4	0.033 U	0.043 U

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						Conventionals (cont.)					Dissolved Gases		
Analyte						Ammonia (total as nitrogen)	Nitrate	Sulfide	Total Organic Carbon	Orthophosphate	Methane	Ethane	Ethene
CAS No.						--	14797-55-8	18496-25-8	TOC	14265-44-2	74-82-8	74-84-0	74-85-1
MTCA Method A CUL [1]						--	--	--	--	--	--	--	--
Unit						mg/L	mg-N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)								
BSCSS-MW-12													
3/3/2021	Intermediate	25–33	45.84	8.00	37.84	0.050 U			3.9		10	0.00022 U	0.00069
6/15/2021	Intermediate	25–33	45.84	8.77	37.07	0.050 U			3.6		1.8	0.00022 U	0.00029 U
9/27/2022	Intermediate	25–33	45.84	7.90	37.94	0.050 U			23		11	0.00022 U	0.014
2/20/2023	Intermediate	25–33	45.84	6.55	39.29	0.050 U			11		8.3	0.00022 U	0.013
9/15/2023	Intermediate	25–33	45.84	7.91	37.93	0.054			4.0		14	0.00022 U	0.00029 U
4/9/2024	Intermediate	25–33	44.22	6.98	37.24		0.14		7.5	0.36	7.3	0.00056 U	0.00058 U
9/25/2024	Intermediate	25–33	44.22	7.92	36.30		0.059	0.050 U	4.0	0.31	6.7	0.00056 U	0.0048
5/7/2025	Intermediate	25–33	44.22	7.18	37.04		0.055		4.5	0.35	2,600	0.00056 U	0.00058 U
9/24/2025	Intermediate	25–33	44.22	8.75	35.47		0.081		5.8	0.38	6.1	0.00056 U	0.0029
BSCSS-MW-20R													
6/22/2021	Intermediate	25–30	43.00	8.32	34.68	0.17			12		4.1	0.00022 U	0.011
9/1/2022	Intermediate	25–30	43.00	7.80	35.20	0.16			9.2		7.1	0.0036	0.077
2/2/2023	Intermediate	25–30	43.00	6.52	36.48	0.10			6.2		4.7	0.0040	0.066
9/19/2023	Intermediate	25–30	43.00	7.96	35.04	0.093			4.2		5.0	0.0032	0.032
4/9/2024	Intermediate	25–30	44.78	6.91	36.09		0.050 U		4.8	1.8	3.0	0.00056 U	0.014
9/24/2024	Intermediate	25–30	44.78	7.39	35.61		0.050 U		4.4	1.2	2.8	0.00056 U	0.020
5/7/2025	Intermediate	25–30	44.78	6.95	37.83		0.050 U		3.9	1.8	930	0.00056 U	0.0035
9/22/2025	Intermediate	25–30	44.78	8.12	36.66		0.050 U		4.1	1.5	3.5	0.00056 U	0.060
BSCSS-MW-21R													
8/3/2021	Shallow	10–15	42.00	8.74	33.26	0.050 U			2.0		4.1	0.00022 U	0.00029 U
8/30/2022	Shallow	10–15	42.00	8.50	33.50	0.050 U			3.2		0.22	0.00022 U	0.00029 U
2/3/2023	Shallow	10–15	42.00	7.50	34.50	0.050 U			2.9		1.2	0.00022 U	0.00029 U
9/19/2023	Shallow	10–15	42.00	8.55	33.45	0.083			1.7		0.56	0.00022 U	0.00029 U
4/9/2024	Shallow	10–15	44.71	7.49	37.22		0.087		2.5	0.033	2.5	0.00056 U	0.00058 U
9/24/2024	Shallow	10–15	44.71	7.45	37.26		0.050 U		8.7	0.064	0.59	0.00056 U	0.00058 U
5/5/2025	Shallow	10–15	44.71	7.35	37.36		0.050 U		6.0	0.055	230	0.00056 U	0.00058 U
9/22/2025	Shallow	10–15	44.71	10.25	34.46		0.050 U		2.3	0.091	2.8	0.00056 U	0.015
BSCSS-MW-23													
12/5/2018	Shallow	6–16	48.03	8.70	39.33				2.4		0.085	0.016 U	0.015 U
2/12/2019	Shallow	6–16	48.03	8.18	39.85				1.2		0.0086 U	0.016 U	0.015 U
6/4/2019	Shallow	6–16	48.03	8.57	39.46				1.6		0.14	0.0075 U	0.0075 U
6/17/2021	Shallow	6–16	48.03	8.91	39.12	0.050 U			3.4		1.4	0.00022 U	0.00029 U
10/14/2022	Shallow	6–16	48.03	10.45	37.58	0.050 U			3.0		0.41	0.00022 U	0.00029 U
2/6/2023	Shallow	6–16	48.03	10.00	38.03	0.050 U			1.9		3.4	0.00022 U	0.00029 U
9/27/2023	Shallow	6–16	48.03	10.23	37.80	0.050 U			1.5		0.40	0.00022 U	0.00029 U
4/11/2024	Shallow	6–16	48.03	10.44	37.59		3.7		2.0	0.012 U	0.11	0.00056 U	0.00058 U
9/23/2024	Shallow	6–16	49.31	11.25	38.06		4.5		1.7	0.012 U	0.00055 U	0.00056 U	0.00058 U
5/6/2025	Shallow	6–16	49.31	10.63	38.68		14		1.4	0.012 U	0.55 U	0.00056 U	0.00058 U
9/23/2025	Shallow	6–16	49.31	11.90	37.41		5.1		1.2	0.012 U	0.012	0.00056 U	0.00058 U

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						Conventionals (cont.)					Dissolved Gases		
Analyte						Ammonia (total as nitrogen)	Nitrate	Sulfide	Total Organic Carbon	Orthophosphate	Methane	Ethane	Ethene
CAS No.						--	14797-55-8	18496-25-8	TOC	14265-44-2	74-82-8	74-84-0	74-85-1
MTCA Method A CUL [1]						--	--	--	--	--	--	--	--
Unit						mg/L	mg-N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)								
BSCSS-MW-27													
12/12/2018	Shallow	6–16	48.49	10.09	38.40				0.79		0.0086 U	0.016 U	0.015 U
5/24/2019	Shallow	6–16	48.49	9.65	38.84				1.0 U		0.0010 U	0.00050 U	0.00050 U
7/16/2019	Shallow	6–16	48.49	10.39	38.10				1.0 U		0.0010 U	0.00050 U	0.00050 U
10/18/2019	Shallow	6–16	48.49	10.05	38.44	0.050 U			8.7		0.0010 U	0.00050 U	0.00050 U
1/29/2020	Shallow	6–16	48.49	8.22	40.27	0.050 U			1.3		0.00055 U	0.00022 U	0.00029 U
4/16/2020	Shallow	6–16	48.49	8.87	39.62	0.050 U			1.0 U		0.00055 U	0.00022 U	0.00029 U
7/27/2020	Shallow	6–16	48.49	9.95	38.54	0.050 U			1.2		0.00055 U	0.00022 U	0.00029 U
10/19/2020	Shallow	6–16	48.49	9.98	38.51	0.050 U			1.0		0.0036	0.00022 U	0.00029 U
2/26/2021	Shallow	6–16	48.49	7.87	40.62	0.050 U			1.0 U		1.3	0.0033 U	0.0043 U
6/17/2021	Shallow	6–16	48.49	9.87	38.62	0.050 U			1.0 U		0.68	0.00022 U	0.00029 U
9/22/2022	Shallow	6–16	48.49	10.22	38.27	0.056			3.9		0.46	0.00022 U	0.00029 U
2/21/2023	Shallow	6–16	48.49	8.59	39.90	0.050 U			1.5		2.3	0.00022 U	0.00029 U
9/7/2023	Shallow	6–16	48.49	10.33	38.16	0.050 U			1.6		0.70	0.00022 U	0.00029 U
4/11/2024	Shallow	6–16	48.49	9.15	39.34		0.90		1.3	0.012 U	1.2	0.00056 U	0.00058 U
9/25/2024	Shallow	6–16	47.49	10.01	37.48		0.34		1.2	0.012 U	0.60	0.00056 U	0.00058 U
5/6/2025	Shallow	6–16	47.49	9.10	38.39		0.25		1.1	0.012 U	370	0.00056 U	0.00058 U
9/23/2025	Shallow	6–16	47.49	11.15	36.34		0.050 U		1.4	0.012 U	2.1	0.00056 U	0.00058 U
BSCSS-MW-29													
12/12/2018	Deep	45–55	48.50	10.25	38.25				3.0		0.040	0.016 U	0.015 U
6/4/2019	Deep	45–55	48.50	10.08	38.42				2.2		0.32	0.015 U	0.015 U
7/16/2019	Deep	45–55	48.50	10.61	37.89				2.1		0.35	0.00050 U	0.00050 U
10/18/2019	Deep	45–55	48.50	10.48	38.02	0.29			2.2		0.39	0.00050 U	0.00050 U
1/29/2020	Deep	45–55	48.50	9.61	38.89	0.24			1.9		0.36	0.00022 U	0.00029 U
4/16/2020	Deep	45–55	48.50	9.71	38.79	0.25			2.0		0.093	0.00022 U	0.00029 U
7/24/2020	Deep	45–55	48.50	--	--	0.050 U			1.0 U		0.00055 U	0.00022 U	0.00029 U
8/10/2020	Deep	45–55	48.50	10.54	37.96	0.29			2.0		0.17	0.00022 U	0.00029 U
10/19/2020	Deep	45–55	48.50	10.40	38.10	0.28			2.0		0.20	0.00044 U	0.00058 U
2/26/2021	Deep	45–55	48.50	9.36	39.14	0.27			2.3		0.11	0.00022 U	0.00029 U
6/17/2021	Deep	45–55	48.50	10.43	38.07	0.30			2.3		0.059	0.00022 U	0.00029 U
9/22/2022	Deep	45–55	48.50	10.10	38.40	0.27			1.9		0.22	0.00022 U	0.00029 U
2/10/2023	Deep	45–55	48.50	8.71	39.79	0.21			1.8		0.23	0.00022 U	0.00029 U
9/7/2023	Deep	45–55	48.50	10.20	38.30	0.28			1.7		0.18	0.00022 U	0.00029 U
9/23/2024	Deep	45–55	48.03	10.61	37.42		0.050 U		1.7	0.27	0.30	0.00056 U	0.00058 U
5/7/2025	Deep	45–55	48.03	10.05	37.98		0.050 U		1.6	0.22	74	0.00056 U	0.00058 U
9/23/2025	Deep	45–55	48.03	11.02	37.01		0.050 U		1.5	0.23	0.44	0.00056 U	0.00058 U

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						Conventionals (cont.)					Dissolved Gases		
Analyte						Ammonia (total as nitrogen)	Nitrate	Sulfide	Total Organic Carbon	Orthophosphate	Methane	Ethane	Ethene
CAS No.						--	14797-55-8	18496-25-8	TOC	14265-44-2	74-82-8	74-84-0	74-85-1
MTCA Method A CUL [1]						--	--	--	--	--	--	--	--
Unit						mg/L	mg-N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)								
BSCSS-MW-34													
12/11/2018	Deep	40–50	47.19	8.50	38.69				1.2		0.010	0.016 U	0.015 U
2/21/2019	Deep	40–50	47.19	7.59	39.60				1.5		0.027	0.016 U	0.015 U
6/3/2019	Deep	40–50	47.19	8.28	38.91				1.8		0.14	0.0075 U	0.0075 U
6/15/2021	Deep	40–50	47.19	8.65	38.54	0.050 U			1.8		0.29	0.00022 U	0.00029 U
9/1/2022	Deep	40–50	47.19	7.70	39.49	0.050 U			1.9		0.30	0.00022 U	0.00029 U
2/3/2023	Deep	40–50	47.19	6.65	40.54	0.050 U			1.6		0.34	0.00022 U	0.00029 U
9/14/2023	Deep	40–50	47.19	7.55	39.64	0.078			1.5		0.0017	0.00022 U	0.00029 U
4/9/2024	Deep	40–50	44.48	6.65	37.83		0.055		2.8	0.030	0.026	0.00056 U	0.00058 U
9/24/2024	Deep	40–50	44.48	7.41	37.07		0.050 U		1.9	0.029	0.044	0.00056 U	0.00058 U
5/5/2025	Deep	40–50	44.48	6.67	37.81		0.050 U		1.9	0.030	5.8	0.00056 U	0.00058 U
9/22/2025	Deep	40–50	44.48	7.85	36.63		0.050 U		1.9	0.038	0.060	0.00056 U	0.00058 U
BSCSS-MW-39													
12/17/2018	Deep	40–50	44.89	6.33	38.56				3.4		0.36	0.016 U	0.015 U
3/13/2019	Deep	40–50	44.89	6.32	38.57				4.2		0.55	0.016 U	0.015 U
5/29/2019	Deep	40–50	44.89	6.49	38.40				3.3		1.1	0.10 U	0.10 U
7/23/2019	Deep	40–50	44.89	7.02	37.87				2.9		1.0	0.00050 U	0.00050 U
10/24/2019	Deep	40–50	44.89	6.94	37.95	0.48			3.1		0.91	0.00050 U	0.00050 U
1/28/2020	Deep	40–50	44.89	5.53	39.36	0.53			3.2		0.67	0.00022 U	0.00029 U
4/27/2020	Deep	40–50	44.89	6.17	38.72	0.050 U			2.1		0.0011	0.00022 U	0.00029 U
7/29/2020	Deep	40–50	44.89	6.92	37.97	0.64			3.6		0.68	0.00022 U	0.00029 U
10/22/2020	Deep	40–50	44.89	6.99	37.90	0.56			3.3		0.66	0.0022 U	0.0029 U
3/5/2021	Deep	40–50	44.89	--	--	0.27			3.2		0.56	0.0022 U	0.0029 U
3/12/2021	Deep	40–50	44.89	6.29	38.60	0.50			2.9		0.11	0.00022 U	0.00029 U
6/21/2021	Deep	40–50	44.89	7.34	37.55	0.59			3.9		0.19	0.00022 U	0.00029 U
9/29/2022	Deep	40–50	44.89	7.86	37.03	0.57			5.0		0.30	0.00022 U	0.0020
2/6/2023	Deep	40–50	44.89	7.15	37.74	0.44			4.8		0.41	0.00022 U	0.00029 U
9/26/2023	Deep	40–50	44.89	7.68	37.21	0.38			4.5		0.26	0.00022 U	0.0031
4/11/2024	Deep	40–50	44.89	6.77	38.12		0.050 U		5.8	0.17	0.33	0.00056 U	0.00058 U
9/26/2024	Deep	40–50	44.54	7.64	36.90		0.054		4.7	0.14	0.37	0.00056 U	0.00058 U
5/6/2025	Deep	40–50	44.54	7.00	37.54		0.050 U		5.0	0.14	170	0.00056 U	0.00058 U
9/23/2025	Deep	40–50	44.54	8.63	35.91		0.050 U		16	7.1	8.5	0.00056 U	0.00058 U
BSCSS-MW-40													
12/17/2018	Shallow	15–25	45.00	6.28	38.72				1.1		0.0086 U	0.016 U	0.015 U
3/13/2019	Shallow	15–25	45.00	6.29	38.71				2.0		0.0096	0.016 U	0.015 U
5/29/2019	Shallow	15–25	45.00	6.49	38.51				11		0.47	0.011	0.025 U
7/23/2019	Shallow	15–25	45.00	7.00	38.00				12		0.49	0.0082	0.00050 U
10/25/2019	Shallow	15–25	45.00	6.82	38.18	0.14			13		0.51	0.00050 U	0.0016
1/28/2020	Shallow	15–25	45.00	5.51	39.49	0.33			10		10	0.00022 U	0.12

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						Conventionals (cont.)					Dissolved Gases		
Analyte						Ammonia (total as nitrogen)	Nitrate	Sulfide	Total Organic Carbon	Orthophosphate	Methane	Ethane	Ethene
CAS No.						--	14797-55-8	18496-25-8	TOC	14265-44-2	74-82-8	74-84-0	74-85-1
MTCA Method A CUL [1]						--	--	--	--	--	--	--	--
Unit						mg/L	mg-N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)								
BSCSS-MW-40													
4/27/2020	Shallow	15–25	45.00	6.48	38.52	0.24			9.9		5.6	0.00022 U	0.13
7/29/2020	Shallow	15–25	45.00	7.01	37.99	11			69		11	0.00022 U	0.48
10/29/2020	Shallow	15–25	45.00	7.04	37.96	0.64			7.4		10	0.016	0.36
3/5/2021	Shallow	15–25	45.00	--	--	0.49			4.9		8.8	0.024	0.25
3/12/2021	Shallow	15–25	45.00	6.50	38.50	0.42			4.9		5.0	0.00022 U	0.14
6/21/2021	Shallow	15–25	45.00	6.98	38.02	0.54			4.8		2.3	0.0042	0.050
9/29/2022	Shallow	15–25	45.00	8.18	36.82	0.58			5.4		0.97	0.0012	0.063
2/6/2023	Shallow	15–25	45.00	6.40	38.60	0.23			2.1		0.80	0.00038	0.038
9/26/2023	Shallow	15–25	45.00	7.44	37.56	0.69			5.5		1.8	0.0066	0.15
4/11/2024	Shallow	15–25	45.00	7.73	37.27		0.11		7.0	0.27	0.26	0.00056	0.049
9/26/2024	Shallow	15–25	44.57	9.60	34.97		0.054		6.0	0.49	0.42	0.0026	0.096
5/6/2025	Shallow	15–25	44.57	6.95	37.62		0.11		6.6	0.36	46	0.00056 U	0.036
9/23/2025	Shallow	15–25	44.57	8.95	35.62		0.050 U		6.5	0.57	0.42	0.0040	0.14
9/23/2025	Shallow	15–25	44.57	8.95	35.62		0.050 U		6.5	0.64	0.43	0.0058	0.15
BSCSS-MW-42													
12/14/2018	Intermediate	30–45	--	--	--				5.3		0.71	0.016 U	0.015 U
1/3/2019	Intermediate	30–45	--	--	--								
3/18/2019	Intermediate	30–45	--	8.79	--				1.9		0.18	0.016 U	0.015 U
6/5/2019	Intermediate	30–45	--	9.11	--				2.3		4.1	0.25 U	0.25 U
7/29/2019	Intermediate	30–45	--	9.65	--				1.7		2.5	0.00050 U	0.00050 U
10/22/2019	Intermediate	30–45	--	9.29	--				3.9				
1/29/2020	Intermediate	30–45	--	8.49	--	0.16			6.3		7.1	0.00022 U	0.00029 U
4/16/2020	Intermediate	30–45	--	8.88	--	0.21			3.5		8.9	0.00022 U	0.012
7/24/2020	Intermediate	30–45	--	9.08	--	0.41			5.5		5.0	0.00022 U	0.037
10/26/2020	Intermediate	30–45	--	9.26	--	0.39			46		14	0.00022 U	0.014
3/1/2021	Intermediate	30–45	--	8.33	--	1.3			7.7		5.9	0.022 U	0.029 U
6/11/2021	Intermediate	30–45	--	9.37	--	1.7			3.8		6.1	0.00022 U	0.00029 U
9/29/2022	Intermediate	30–45	--	12.63	--	6.5			3.4		2.6	0.00022 U	0.00029 U
2/8/2023	Intermediate	30–45	--	10.73	--	6.9			2.7		4.2	0.00022 U	0.00029 U
9/22/2023	Intermediate	30–45	--	12.15	--	6.5			2.6		8.2	0.00022 U	0.00029 U
4/10/2024	Intermediate	30–45	--	11.19	--		0.19		4.3	4.2	6.7	0.00056 U	0.00058 U
9/26/2024	Intermediate	30–45	50.11	11.97	38.14		0.061		2.9	3.6	5.0	0.00056 U	0.00058 U
5/6/2025	Intermediate	30–45	50.11	10.40	39.71		0.36		3.3	0.10	1,600	0.00056 U	0.00058 U
9/23/2025	Intermediate	30–45	50.11	12.21	37.90		0.064		2.9	2.9	5.7	0.00056 U	0.00058 U
BSCSS-MW-43R													
6/23/2021	Shallow	10–25	47.00	7.65	39.35	0.18			26		3.1	0.00022 U	0.0045
9/29/2022	Shallow	10–25	47.00	11.22	35.78	0.21			3.2		2.9	0.00022 U	0.00029 U
2/8/2023	Shallow	10–25	47.00	7.89	39.11	0.050 U			4.3		1.5	0.00022 U	0.00029 U
9/22/2023	Shallow	10–25	47.00	10.50	36.50	0.14			2.4		3.0	0.00022 U	0.00029 U
4/10/2024	Shallow	10–25	47.00	9.47	37.53		0.79		3.9	0.12	2.4	0.00056 U	0.00058 U

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						Conventionals (cont.)					Dissolved Gases		
Analyte						Ammonia (total as nitrogen)	Nitrate	Sulfide	Total Organic Carbon	Orthophosphate	Methane	Ethane	Ethene
CAS No.						--	14797-55-8	18496-25-8	TOC	14265-44-2	74-82-8	74-84-0	74-85-1
MTCA Method A CUL [1]						--	--	--	--	--	--	--	--
Unit						mg/L	mg-N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)								
BSCSS-MW-43R													
9/26/2024	Shallow	10–25	49.79	10.99	38.80		0.12		3.1	0.14	2.7	0.00056 U	0.00058 U
5/6/2025	Shallow	10–25	49.79	11.29	38.50		0.11		3.0	3.4	2,800	0.00056 U	0.00058 U
9/23/2025	Shallow	10–25	49.79	11.10	38.69		0.86		3.0	0.061	1.3	0.00056 U	0.00058 U
BSCSS-MW-44R													
6/23/2021	Intermediate	20–30	44.00	8.07	35.93	3.2			4.2		2.3	0.00022 U	0.0050
9/27/2022	Intermediate	20–30	44.00	8.14	35.86	4.1			4.8		0.69	0.00057	0.00030
2/8/2023	Intermediate	20–30	44.00	6.70	37.30	4.2			4.5		1.2	0.00023	0.00046
9/22/2023	Intermediate	20–30	44.00	8.15	35.85	3.0			5.7		0.62	0.00022 U	0.00029 U
9/26/2024	Intermediate	20–30	44.85	7.79	37.06		0.050 U		6.6	1.7	1.7	0.00056 U	0.00058 U
5/6/2025	Intermediate	20–30	44.85	7.13	37.72		0.050 U		7.4	0.75	180	0.00056 U	0.00058 U
9/23/2025	Intermediate	20–30	44.85	7.85	37.00		0.050 U		7.7	1.5	1.1	0.00088	0.00058 U
BSCSS-MW-45R													
6/23/2021	Shallow	7–17	43.00	8.07	34.93	0.053			3.3		0.39	0.00022 U	0.00058
9/1/2022	Shallow	7–17	43.00	7.95	35.05	0.088			18		0.0022	0.00022 U	0.00029 U
2/2/2023	Shallow	7–17	43.00	5.54	37.46	0.050 U			8.9		0.0016	0.00022 U	0.00029 U
9/19/2023	Shallow	7–17	43.00	8.04	34.96	0.050 U			5.9		0.42	0.00022 U	0.00029 U
4/9/2024	Shallow	7–17	44.55	5.67	38.88		0.052		310	0.031	3.5	0.00056 U	0.00058 U
9/24/2024	Shallow	7–17	44.55	7.85	36.70		0.050 U		14	0.022	6.5	0.00056 U	0.00058 U
5/5/2025	Shallow	7–17	44.55	7.23	37.32		0.050 U		12	0.021	2,200	0.00056 U	0.00058 U
9/22/2025	Shallow	7–17	44.55	10.36	34.19		0.36		11	0.10	11	0.00056 U	0.00058 U
BSCSS-HZ-MW-1													
12/19/2018	Shallow	5–15	42.00	6.94	35.06				1.2		0.0086 U	0.016 U	0.015 U
5/30/2019	Shallow	5–15	42.00	6.81	35.19				1.1		0.0014	0.00050 U	0.00050 U
7/29/2019	Shallow	5–15	42.00	7.20	34.80				1.0		0.0010 U	0.00050 U	0.00050 U
10/21/2019	Shallow	5–15	42.00	7.45	34.55	0.050 U			1.1		0.0010 U	0.00050 U	0.00050 U
1/24/2020	Shallow	5–15	42.00	6.39	35.61	0.050 U			1.2		1.5	0.00022 U	0.00029 U
4/14/2020	Shallow	5–15	42.00	6.33	35.67	0.050 U			1.6		12	0.00022 U	0.00029 U
7/17/2020	Shallow	5–15	42.00	6.88	35.12	0.050 U			1.7		18	0.00022 U	0.00029 U
10/27/2020	Shallow	5–15	42.00	7.42	34.58	0.13			1.7		7.4	0.00022 U	0.00029 U
3/4/2021	Shallow	5–15	42.00	5.34	36.66	0.31			2.7		8.4	0.00022 U	0.0012
6/15/2021	Shallow	5–15	42.00	7.15	34.85	0.14			2.7		1.9	0.00022 U	0.00085
9/12/2022	Shallow	5–15	42.00	9.90	32.10	0.14			2.2		0.30	0.00022 U	0.00029 U
2/15/2023	Shallow	5–15	42.00	8.64	33.36	0.050 U			3.3		6.2	0.00022 U	0.00029 U
9/20/2023	Shallow	5–15	42.00	9.81	32.19	0.058			3.6		7.3	0.00022 U	0.00029 U
4/10/2024	Shallow	5–15	43.71	8.81	34.90		0.052		2.7	0.21	7.3	0.00056 U	0.0013
9/24/2024	Shallow	5–15	43.71	8.94	34.77		0.050 U		5.9	0.14	3.2	0.00056 U	0.00089
5/6/2025	Shallow	5–15	43.71	8.60	35.11		0.071		5.7	0.15	2,700	0.00056 U	0.00058 U
9/24/2025	Shallow	5–15	43.71	15.45	28.26		0.060		4.3	0.18	2.7	0.00056 U	0.00058 U

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						Conventionals (cont.)					Dissolved Gases		
Analyte						Ammonia (total as nitrogen)	Nitrate	Sulfide	Total Organic Carbon	Orthophosphate	Methane	Ethane	Ethene
CAS No.						--	14797-55-8	18496-25-8	TOC	14265-44-2	74-82-8	74-84-0	74-85-1
MTCA Method A CUL [1]						--	--	--	--	--	--	--	--
Unit						mg/L	mg-N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)								
BSCSS-HZ-MW-14D													
12/13/2018	Intermediate	30–40	42.78	6.70	36.08				0.97		0.052	0.016 U	0.015 U
5/21/2019	Intermediate	30–40	42.78	6.16	36.62				1.0 U		0.18	0.010 U	0.010 U
7/29/2019	Intermediate	30–40	42.78	6.92	35.86				1.0		0.92	0.00050 U	0.00050 U
10/16/2019	Intermediate	30–40	42.78	7.70	35.08	0.050 U			1.0 U		1.5	0.00050 U	0.00050 U
1/22/2020	Intermediate	30–40	42.78	5.98	36.80	0.050 U			1.2		2.6	0.00022 U	0.00029 U
4/15/2020	Intermediate	30–40	42.78	6.14	36.64	0.050 U			1.2		1.8	0.00022 U	0.00029 U
7/21/2020	Intermediate	30–40	42.78	6.78	36.00	0.050 U			1.2		2.6	0.00022 U	0.00029 U
10/28/2020	Intermediate	30–40	42.78	7.34	35.44	0.050 U			1.2		1.7	0.00022 U	0.00029 U
3/4/2021	Intermediate	30–40	42.78	5.84	36.94	0.050 U			1.4		2.4	0.00022 U	0.00029 U
6/15/2021	Intermediate	30–40	42.78	6.88	35.90	0.050 U			1.6		0.40	0.00022 U	0.00029 U
9/6/2022	Intermediate	30–40	42.78	9.30	33.48	0.050 U			2.6		0.39	0.00091	0.00043
2/3/2023	Intermediate	30–40	42.78	8.36	34.42	0.050 U			2.5		0.15	0.0011	0.00029 U
9/21/2023	Intermediate	30–40	42.78	9.60	33.18	0.050 U			2.1		0.072	0.00022 U	0.00029 U
4/9/2024	Intermediate	30–40	44.49	8.55	35.94		0.050 U		2.8	0.024	0.20	0.00056 U	0.00058 U
9/24/2024	Intermediate	30–40	44.49	9.51	34.98		0.050 U		2.5	0.026	0.21	0.00056 U	0.00058 U
5/6/2025	Intermediate	30–40	44.49	9.02	35.47		0.050 U		3.1	0.34	22	0.00056 U	0.00058 U
9/23/2025	Intermediate	30–40	44.49	12.12	32.37		0.050 U		3.1	0.053	0.59	0.00056 U	0.00058 U
BSCSS-HZ-MW-14S													
12/13/2018	Shallow	5–15	42.77	6.23	36.54				1.9		0.0086 U	0.016 U	0.015 U
5/21/2019	Shallow	5–15	42.77	6.43	36.34				1.7		0.053	0.0050 U	0.0050 U
7/25/2019	Shallow	5–15	42.77	6.31	36.46				1.8		0.018	0.00050 U	0.00050 U
10/16/2019	Shallow	5–15	42.77	6.99	35.78	0.050 U			1.9		0.29	0.00050 U	0.00050 U
1/22/2020	Shallow	5–15	42.77	5.65	37.12	0.050 U			2.8		0.014	0.00022 U	0.00029 U
4/15/2020	Shallow	5–15	42.77	5.76	37.01	0.050 U			2.1		6.9	0.00022 U	0.019
7/21/2020	Shallow	5–15	42.77	7.45	35.32	0.050 U			2.0		8.6	0.00022 U	0.015
10/23/2020	Shallow	5–15	42.77	7.13	35.64	0.051			2.0		9.5	0.00022 U	0.015
3/3/2021	Shallow	5–15	42.77	4.33	38.44	0.050 U			2.5		9.5	0.00022 U	0.016
6/15/2021	Shallow	5–15	42.77	6.80	35.97	0.10			2.7		2.3	0.00022 U	0.0043
9/6/2022	Shallow	5–15	42.77	9.45	33.32	0.066			3.0		4.0	0.00022 U	0.00029 U
2/21/2023	Shallow	5–15	42.77	8.50	34.27	0.050 U			1.9		7.9	0.00022 U	0.00029 U
9/21/2023	Shallow	5–15	42.77	9.63	33.14	0.050 U			2.1		11	0.00022 U	0.00029 U
4/9/2024	Shallow	5–15	44.61	8.70	35.91		0.065		2.8	0.057	8.9	0.00056 U	0.00058 U
9/24/2024	Shallow	5–15	44.61	9.23	35.38		0.12		2.3	0.088	0.27	0.00056 U	0.00058 U
5/6/2025	Shallow	5–15	44.61	9.13	35.48		0.055		2.0	0.085	370	0.00056 U	0.00058 U
9/23/2025	Shallow	5–15	44.61	11.22	33.39		0.050 U		1.9	0.062	2.1	0.00056 U	0.00058 U
BSCSS-HZ-MW-15D													
12/27/2018	Intermediate	20–30	42.00	4.23	37.77				1.1		0.046 UJ	0.16 U	0.15 U
6/4/2019	Intermediate	20–30	42.00	6.11	35.89				1.5		5.0	0.25 U	0.25 U
7/23/2019	Intermediate	20–30	42.00	6.83	35.17				1.6		5.0	0.00050 U	0.00050 U
10/17/2019	Intermediate	20–30	42.00	7.02	34.98	0.050 U			1.3		5.0	0.00050 U	0.00050 U
1/22/2020	Intermediate	20–30	42.00	6.05	35.95	0.050 U			1.2		2.4	0.00022 U	0.00029 U
4/15/2020	Intermediate	20–30	42.00	6.67	35.33	0.050 U			1.2		3.0	0.00022 U	0.00029 U

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						Conventionals (cont.)					Dissolved Gases		
Analyte						Ammonia (total as nitrogen)	Nitrate	Sulfide	Total Organic Carbon	Orthophosphate	Methane	Ethane	Ethene
CAS No.						--	14797-55-8	18496-25-8	TOC	14265-44-2	74-82-8	74-84-0	74-85-1
MTCA Method A CUL [1]						--	--	--	--	--	--	--	--
Unit						mg/L	mg-N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)								
BSCSS-HZ-MW-15D (cont.)													
7/22/2020	Intermediate	20–30	42.00	6.45	35.55	0.050 U			1.4		4.0	0.00022 U	0.00029 U
10/23/2020	Intermediate	20–30	42.00	6.79	35.21	0.050 U			1.0 U		4.6	0.022 U	0.029 U
3/3/2021	Intermediate	20–30	42.00	6.23	35.77	0.050 U			1.0 U		6.1	0.00022 U	0.00029 U
6/22/2021	Intermediate	20–30	42.00	5.80	36.20	0.050 U			1.6		1.9	0.00022 U	0.00029 U
9/8/2022	Intermediate	20–30	42.00	9.44	32.56	0.050 U			1.3		8.2	0.00022 U	0.00029 U
2/21/2023	Intermediate	20–30	42.00	8.30	33.70	0.050 U			1.2		6.5	0.00022 U	0.00029 U
9/20/2023	Intermediate	20–30	42.00	9.68	32.32	0.050 U			1.3		5.7	0.00022 U	0.00029 U
4/10/2024	Intermediate	20–30	44.60	8.61	35.99		0.050 U		1.6	0.020	7.4	0.00056 U	0.00058 U
9/24/2024	Intermediate	20–30	44.60	9.58	35.02		0.050 U		1.4	0.018	4.8	0.00056 U	0.00058 U
5/5/2025	Intermediate	20–30	44.60	9.10	35.50		0.050 U		1.3	0.30	930	0.00056 U	0.00058 U
9/22/2025	Intermediate	20–30	44.60	10.88	33.72		0.050 U		22	14	6.2	0.00056 U	0.00058 U
BSCSS-HZ-MW-15S													
12/27/2018	Shallow	10–15	42.07	4.40	37.67				1.4		0.0086 U	0.016 U	0.015 U
6/4/2019	Shallow	10–15	42.07	4.92	37.15				1.1		0.019	0.0010 U	0.0010 U
7/23/2019	Shallow	10–15	42.07	5.66	36.41				1.0		0.020	0.00050 U	0.00050 U
10/17/2019	Shallow	10–15	42.07	5.87	36.20	0.050 U			1.2		0.0076	0.00050 U	0.00050 U
1/22/2020	Shallow	10–15	42.07	4.02	38.05	0.050 U			1.4		0.0086	0.00022 U	0.00029 U
4/15/2020	Shallow	10–15	42.07	4.51	37.56	0.050 U			1.3		0.0012	0.00022 U	0.00029 U
7/22/2020	Shallow	10–15	42.07	5.85	36.22	0.050 U			1.2		0.0089	0.00022 U	0.00029 U
10/23/2020	Shallow	10–15	42.07	6.23	35.84	0.050 U			1.3		0.36	0.0022 U	0.0029 U
3/3/2021	Shallow	10–15	42.07	4.82	37.25	0.050 U			1.2		0.56	0.00022 U	0.00039
6/22/2021	Shallow	10–15	42.07	5.77	36.30	0.050 U			1.6		0.28	0.00022 U	0.00029 U
9/6/2022	Shallow	10–15	42.07	9.30	32.77	0.14			36		3.5	0.00022 U	0.00029 U
2/15/2023	Shallow	10–15	42.07	7.95	34.12	0.050 U			3.3		5.7	0.00022 U	0.00029 U
9/20/2023	Shallow	10–15	42.07	9.33	32.74	0.050 U			2.5		2.2	0.00022 U	0.00029 U
4/9/2024	Shallow	10–15	44.73	8.33	36.40		0.050 U		3.5	0.050	0.39	0.00056 U	0.00058 U
9/23/2024	Shallow	10–15	44.73	8.82	35.91		0.050 U		3.0	0.060	0.52	0.00056 U	0.00058 U
5/5/2025	Shallow	10–15	44.73	8.58	36.15		0.050 U		4.5	0.056	190	0.00056 U	0.00058 U
9/22/2025	Shallow	10–15	44.73	10.67	34.06		0.050 U		7.5	0.16	0.88	0.00056 U	0.00058 U
BSCSS-HZ-MW-24													
12/10/2018	Intermediate	25–35	41.53	6.04	35.49				7.0		0.0086 U	0.016 U	0.015 U
5/31/2019	Intermediate	25–35	41.53	6.06	35.47				3.5		5.4	0.25 U	0.25 U
7/17/2019	Intermediate	25–35	41.53	7.10	34.43				3.8		6.3	0.00050 U	0.00050 U
10/24/2019	Intermediate	25–35	41.53	6.82	34.71	1.1			4.7		9.7	0.00050 U	0.00050 U
1/27/2020	Intermediate	25–35	41.53	5.71	35.82	2.5			4.9		9.5	0.00022 U	0.00029 U
4/14/2020	Intermediate	25–35	41.53	6.01	35.52	4.1			5.4		4.0	0.00022 U	0.0027
7/22/2020	Intermediate	25–35	41.53	6.78	34.75	2.5			4.5		2.1	0.0022 U	0.0076
10/28/2020	Intermediate	25–35	41.53	6.91	34.62	1.9			3.8		1.6	0.00022 U	0.00029 U
3/2/2021	Intermediate	25–35	41.53	5.18	36.35	0.96			2.8		0.20	0.00022 U	0.00029 U
6/18/2021	Intermediate	25–35	41.53	6.50	35.03	0.96			4.9		0.31	0.0022 U	0.0029 U

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						Conventionals (cont.)					Dissolved Gases		
Analyte						Ammonia (total as nitrogen)	Nitrate	Sulfide	Total Organic Carbon	Orthophosphate	Methane	Ethane	Ethene
CAS No.						--	14797-55-8	18496-25-8	TOC	14265-44-2	74-82-8	74-84-0	74-85-1
MTCA Method A CUL [1]						--	--	--	--	--	--	--	--
Unit						mg/L	mg-N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)								
BSCSS-HZ-MW-24 (cont.)													
9/20/2022	Intermediate	25–35	41.53	5.60	35.93	0.51			5.3		0.30	0.00022 U	0.00029 U
2/7/2023	Intermediate	25–35	41.53	1.90	39.63	0.47			2.3		0.46	0.00022 U	0.00029 U
9/8/2023	Intermediate	25–35	41.53	5.61	35.92	0.52			2.6		1.7	0.00022 U	0.00029 U
4/10/2024	Intermediate	25–35	39.78	4.78	35.00		0.050 U		1.9	0.076	3.2	0.00056 U	0.00058 U
9/24/2024	Intermediate	25–35	39.78	5.59	34.19		0.050 U		2.7	0.057	0.21	0.00056 U	0.00058 U
5/7/2025	Intermediate	25–35	39.78	5.30	34.48		0.050 U		2.3	0.042	22	0.00056 U	0.00058 U
9/24/2025	Intermediate	25–35	39.78	6.40	33.38		0.050 U		1.7	0.072	0.043	0.00056 U	0.00058 U
BSCSS-HZ-MW-26													
12/4/2018	Intermediate	25–35	41.30	7.23	34.07				2.3		0.0086 U	0.016 U	0.015 U
5/30/2019	Intermediate	25–35	41.30	6.85	34.45				1.0 U		0.0042	0.00050 U	0.00050 U
7/29/2019	Intermediate	25–35	41.30	7.34	33.96				1.0 U		0.010	0.00050 U	0.00050 U
10/16/2019	Intermediate	25–35	41.30	7.91	33.39	0.050 U			1.0 U		0.022	0.00050 U	0.00050 U
1/24/2020	Intermediate	25–35	41.30	6.86	34.44	0.050 U			1.0 U		0.035	0.00022 U	0.00052
4/13/2020	Intermediate	25–35	41.30	6.33	34.97	0.050 U			1.0 U		0.059	0.00022 U	0.00029 U
7/17/2020	Intermediate	25–35	41.30	6.82	34.48	0.050 U			1.0 U		0.090	0.00022 U	0.00029 U
10/27/2020	Intermediate	25–35	41.30	7.34	33.96	0.050 U			1.0 U		0.038	0.00022 U	0.00029 U
3/5/2021	Intermediate	25–35	41.30	6.66	34.64	0.050 U			1.0 U		0.0015	0.00022 U	0.00029 U
6/14/2021	Intermediate	25–35	41.30	6.99	34.31	0.050 U			1.0 U		0.0032	0.00022 U	0.00029 U
6/22/2021	Intermediate	25–35	41.30	--	--	0.050 U			1.1		0.0033	0.00022 U	0.00029 U
9/8/2022	Intermediate	25–35	41.30	11.98	29.32	0.050 U			1.0 U		0.18	0.00022 U	0.00029 U
2/21/2023	Intermediate	25–35	41.30	9.83	31.47	0.050 U			1.0 U		0.14	0.00022 U	0.00029 U
9/12/2023	Intermediate	25–35	41.30	11.14	30.16	0.072			1.0 U		0.15	0.00022 U	0.00029 U
4/10/2024	Intermediate	25–35	44.48	10.16	34.32		0.26		1.6	0.045	0.065	0.00056 U	0.00058 U
9/23/2024	Intermediate	25–35	44.48	11.14	33.34		0.36		1.0 U	0.048	0.067	0.00056 U	0.00058 U
5/7/2025	Intermediate	25–35	44.48	10.77	33.71		0.20		1.0 U	0.036	8.0	0.00056 U	0.00058 U
9/24/2025	Intermediate	25–35	44.48	12.79	31.69		0.29		1.0 U	0.036	0.052	0.00056 U	0.00058 U
BSCSS-HZ-MW-29													
12/10/2018	Intermediate	25–35	40.74	5.68	35.06				2.7		0.0086 U	0.016 U	0.015 U
5/31/2019	Intermediate	25–35	40.74	6.29	34.45				52		3.9	0.25 U	0.25 U
7/17/2019	Intermediate	25–35	40.74	7.03	33.71				15		9.5	0.00050 U	0.00050 U
10/24/2019	Intermediate	25–35	40.74	7.98	32.76	1.6			2.1		9.9	0.00050 U	0.00050 U
1/27/2020	Intermediate	25–35	40.74	6.41	34.33	3.2			1.8		8.6	0.00022 U	0.00029 U
4/13/2020	Intermediate	25–35	40.74	6.31	34.43	3.0			3.2		19	0.00022 U	0.00029 U
7/17/2020	Intermediate	25–35	40.74	10.22	30.52	1.8			12		14	0.00022 U	0.014
10/28/2020	Intermediate	25–35	40.74	6.88	33.86	2.0			5.8		14	0.00022 U	0.026
3/5/2021	Intermediate	25–35	40.74	5.47	35.27	1.8			1.9		0.82	0.0022 U	0.0029 U
6/22/2021	Intermediate	25–35	40.74	6.70	34.04	1.8			2.1		2.6	0.00022 U	0.0017
9/20/2022	Intermediate	25–35	40.74	6.35	34.39	0.75			1.3		4.9	0.00022 U	0.0018
2/7/2023	Intermediate	25–35	40.74	5.16	35.58	0.37			1.1		8.2	0.00022 U	0.00029 U
9/8/2023	Intermediate	25–35	40.74	6.44	34.30	0.58			1.1		7.3	0.00022 U	0.00029 U
4/10/2024	Intermediate	25–35	39.67	5.48	35.26		0.050 U		7.7	1.0	12	0.00056 U	0.00058 U
9/24/2024	Intermediate	25–35	39.67	6.30	34.44		0.050 U		1.6	0.94	1.5	0.00056 U	0.00058 U
5/7/2025	Intermediate	25–35	39.67	5.89	33.78		0.11		1.2	0.97	3.0	0.00056 U	0.00058 U
9/24/2025	Intermediate	25–35	39.67	7.55	32.12		0.065		1.0 U	1.3	0.010	0.00056 U	0.00058 U

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						Conventionals (cont.)					Dissolved Gases		
Analyte						Ammonia (total as nitrogen)	Nitrate	Sulfide	Total Organic Carbon	Orthophosphate	Methane	Ethane	Ethene
CAS No.						--	14797-55-8	18496-25-8	TOC	14265-44-2	74-82-8	74-84-0	74-85-1
MTCA Method A CUL [1]						--	--	--	--	--	--	--	--
Unit						mg/L	mg-N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)								
BSCSS-HZ-MW-31													
12/18/2018	Shallow	15–25	37.00	9.40	27.60				5.0		0.15	0.016 U	0.015 U
5/29/2019	Shallow	15–25	37.00	9.34	27.66				4.6		0.34	0.025 U	0.025 U
7/23/2019	Shallow	15–25	37.00	9.45	27.55				4.4		0.62	0.00050 U	0.00050 U
10/25/2019	Shallow	15–25	37.00	9.16	27.84	0.30			4.8		0.90	0.00050 U	0.00050 U
1/28/2020	Shallow	15–25	37.00	8.75	28.25	0.29			4.8		0.76	0.00022 U	0.00029 U
4/27/2020	Shallow	15–25	37.00	24.75	12.25	0.29			4.7		0.84	0.00022 U	0.00029 U
7/29/2020	Shallow	15–25	37.00	9.02	27.98	0.40			4.9		0.92	0.00022 U	0.00029 U
10/29/2020	Shallow	15–25	37.00	9.21	27.79	0.44			4.6		0.84	0.00022 U	0.00029 U
3/5/2021	Shallow	15–25	37.00	8.30	28.70	0.37			6.0		0.11	0.00022 U	0.00037
6/21/2021	Shallow	15–25	37.00	6.35	30.65	0.38			5.6		0.22	0.00022 U	0.00029 U
9/29/2022	Shallow	15–25	37.00	9.06	27.94	0.38			6.2		1.5	0.00022 U	0.027
2/6/2023	Shallow	15–25	37.00	8.20	28.80	0.30			6.0		1.4	0.00022 U	0.024
9/26/2023	Shallow	15–25	37.00	8.61	28.39	0.23			4.8		0.95	0.00022 U	0.011
9/26/2024	Shallow	15–25	37.00	8.70	28.30		0.050 U		6.1	0.29	0.41	0.00056 U	0.0028
5/6/2025	Shallow	15–25	37.00	8.48	28.52		0.12		6.1	0.12	38	0.00056 U	0.00058 U
9/23/2025	Shallow	15–25	37.00	9.39	27.61		0.12		6.7	0.20	0.21	0.00056 U	0.00058 U
BSCSS-HZ-MW-33R													
8/11/2021	Intermediate	25–35	35.00	7.93	27.07	0.050 U			2.2		0.0098	0.00022 U	0.00029 U
10/3/2022	Intermediate	25–35	35.00	--	--	0.050 U			1.0 U		0.12	0.00022 U	0.00029 U
2/7/2023	Intermediate	25–35	35.00	--	--	0.050 U			1.0 U		0.23	0.00022 U	0.00029 U
9/21/2023	Intermediate	25–35	35.00	--	--	0.050 U			1.0 U		0.26	0.00022 U	0.00029 U
4/11/2024	Intermediate	25–35	35.00	--	--		0.28		1.0 U	0.012 U	0.20	0.00056 U	0.00058 U
9/24/2024	Intermediate	25–35	38.38	--	--		0.30		1.0 U	0.012 U	0.37	0.00056 U	0.00058 U
5/7/2025	Intermediate	25–35	38.38	--	--		0.34		1.0 U	0.025	61	0.00056 U	0.00058 U
9/23/2025	Intermediate	25–35	38.38	--	--		0.19		1.0 U	0.012 U	0.22	0.00056 U	0.00058 U
BSCSS-HZ-MW-34													
12/7/2018	Shallow	15–25	37.00	5.77	31.23				4.0		0.0086 U	0.016 U	0.015 U
5/31/2019	Shallow	15–25	37.00	5.88	31.12				42		1.1	0.050 U	0.050 U
7/17/2019	Shallow	15–25	37.00	6.41	30.59				24		3.1	0.00050 U	0.00050 U
10/23/2019	Shallow	15–25	37.00	6.60	30.40	0.69			5.8		7.7	0.00050 U	0.00050 U
1/27/2020	Shallow	15–25	37.00	5.22	31.78	0.67			2.3		11	0.00022 U	0.00029 U
4/14/2020	Shallow	15–25	37.00	5.83	31.17	0.68			2.1		16	0.00022 U	0.0043
7/21/2020	Shallow	15–25	37.00	6.78	30.22	1.4			4.4		20	0.00022 U	0.014
10/28/2020	Shallow	15–25	37.00	6.74	30.26	1.1			1.9		11	0.00022 U	0.012
3/2/2021	Shallow	15–25	37.00	5.15	31.85	0.47			1.7		14	0.00022 U	0.0055
6/18/2021	Shallow	15–25	37.00	6.35	30.65	5.6			14		1.2	0.00022 U	0.00029 U
9/20/2022	Shallow	15–25	37.00	5.50	31.50	0.17			1.6		0.25	0.00022 U	0.00082
2/7/2023	Shallow	15–25	37.00	2.40	34.60	0.15			1.1		0.15	0.00022 U	0.00034
9/8/2023	Shallow	15–25	37.00	5.54	31.46	0.19			1.2		0.14	0.00022 U	0.00029 U
4/10/2024	Shallow	15–25	39.69	4.64	35.05		0.050 U		1.8	0.20	0.15	0.00056 U	0.00058 U
9/24/2024	Shallow	15–25	39.69	5.52	34.17		0.050 U		1.4	0.16	0.18	0.00056 U	0.00058 U
5/7/2025	Shallow	15–25	39.69	5.18	34.51		0.050 U		1.4	0.12	44	0.00056 U	0.00058 U
9/24/2025	Shallow	15–25	39.69	6.72	32.97		0.050 U		1.0 U	0.16	0.081	0.00056 U	0.00058 U

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						Conventionals (cont.)					Dissolved Gases		
Analyte						Ammonia (total as nitrogen)	Nitrate	Sulfide	Total Organic Carbon	Orthophosphate	Methane	Ethane	Ethene
CAS No.						--	14797-55-8	18496-25-8	TOC	14265-44-2	74-82-8	74-84-0	74-85-1
MTCA Method A CUL [1]						--	--	--	--	--	--	--	--
Unit						mg/L	mg-N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)								
BSCSS-S-MW-1													
6/6/2019	Shallow	5.5–15.5	43.53	6.00	37.53				1.4		0.0010 U	0.00050 U	0.00050 U
7/23/2019	Shallow	5.5–15.5	43.53	6.61	36.92				1.0 U		0.0010 U	0.00050 U	0.00050 U
10/23/2019	Shallow	5.5–15.5	43.53	6.18	37.35	0.050 U			1.0 U		0.0010 U	0.00050 U	0.00050 U
1/21/2020	Shallow	5.5–15.5	43.53	4.78	38.75	0.050 U			1.0 U		0.00055 U	0.00022 U	0.00029 U
4/23/2020	Shallow	5.5–15.5	43.53	5.01	38.52	0.050 U			1.0 U		0.00055 U	0.00022 U	0.00029 U
7/28/2020	Shallow	5.5–15.5	43.53	6.97	36.56	0.050 U			1.1		0.00096	0.00022 U	0.00029 U
11/2/2020	Shallow	5.5–15.5	43.53	7.30	36.23	0.050 U			1.0		0.0012	0.00022 U	0.00029 U
3/1/2021	Shallow	5.5–15.5	43.53	4.99	38.54	0.050 U			1.0 U		0.0061	0.00022 U	0.00029 U
6/14/2021	Shallow	5.5–15.5	43.53	7.23	36.30	0.050 U			1.0 U		0.0011	0.00022 U	0.00029 U
9/27/2022	Shallow	5.5–15.5	43.53	8.55	34.98	0.050 U			1.2		0.0016	0.00022 U	0.00029 U
2/16/2023	Shallow	5.5–15.5	43.53	6.87	36.66	0.050 U			1.0 U		0.0051	0.00022 U	0.00029 U
9/7/2023	Shallow	5.5–15.5	43.53	8.71	34.82	0.050 U			1.0 U		0.086	0.00022 U	0.00029 U
9/25/2024	Shallow	5.5–15.5	45.25	8.29	36.96		2.1		1.5	0.060	0.030	0.00056 U	0.00058 U
5/6/2025	Shallow	5.5–15.5	45.25	8.53	36.72		2.2		1.4	0.10	1.3	0.00056 U	0.00058 U
9/23/2025	Shallow	5.5–15.5	45.25	10.04	35.21		1.8		1.1	0.050	0.051	0.00056 U	0.00058 U
BSCSS-S-MW-2RR													
8/5/2021	Shallow	5–15	39.00	6.65	32.35	5.2			2.8		0.78	0.00022 U	0.00030
9/8/2022	Shallow	5–15	39.00	8.60	30.40	11			3.8		2.1	0.00022 U	0.00029 U
2/10/2023	Shallow	5–15	39.00	6.85	32.15	4.7			24		0.40	0.00022 U	0.00029 U
9/12/2023	Shallow	5–15	39.00	8.88	30.12	7.1			3.0		0.83	0.00022 U	0.00029 U
4/10/2024	Shallow	5–15	44.65	7.51	37.14		0.050 U		1.1	1.5	0.23	0.00056 U	0.00058 U
9/23/2024	Shallow	5–15	44.65	8.93	35.72		0.050 U		2.3	2.4	0.30	0.00056 U	0.00058 U
5/7/2025	Shallow	5–15	44.65	7.42	37.23		0.050 U		9.3	3.6	290	0.00056 U	0.00058 U
9/22/2025	Shallow	5–15	44.65	9.10	35.55		0.050 U		3.0	4.2	1.3	0.00056 U	0.00058 U
BSCSS-S-MW-3RR													
8/20/2021	Intermediate	24–39	40.00	11.12	28.88	0.050 U			1.0		1.3	0.00022 U	0.00029 U
10/14/2022	Intermediate	24–39	40.00	--	--	0.050 U			1.3		14	0.00022 U	0.00029 U
2/10/2023	Intermediate	24–39	40.00	13.90	26.10	0.050 U			1.0 U		11	0.00022 U	0.00029 U
2/17/2024	Intermediate	24–39	40.00	9.11	30.89	0.053 U			9.1		6.9	0.00056 U	0.00058 U
4/10/2024	Intermediate	24–39	40.00	10.58	29.42		0.11		11	0.11	15	0.00056 U	0.00058 U
BSCSS-S-MW-3RRR													
9/26/2024	Intermediate	--	45.91	11.30	34.61		2.6		1.1	0.12	1.8	0.00056 U	0.00058 U
5/7/2025	Intermediate	--	45.91	12.30	33.61		0.47		1.0	0.012 U	330	0.00056 U	0.00058 U
9/23/2025	Intermediate	--	45.91	13.20	32.71		0.085		1.1	0.012 U	4.4	0.00056 U	0.00058 U
BSCSS-S-MW-5R													
8/11/2021	Shallow	15–25	39.00	8.30	30.70	0.050 U			1.0 U		0.0029	0.00022 U	0.00029 U
10/3/2022	Shallow	15–25	39.00	10.88	28.12	0.050 U			1.0 U		0.30	0.00022 U	0.00029 U
2/10/2023	Shallow	15–25	39.00	7.14	31.86	0.050 U			1.2		1.3	0.00022 U	0.00029 U
9/12/2023	Shallow	15–25	39.00	8.59	30.41	0.096			1.0 U		0.40	0.00022 U	0.00029 U

Table 5
All Wells: Groundwater Elevations and Field Parameters

Analyte Class						Conventionals (cont.)					Dissolved Gases		
Analyte						Ammonia (total as nitrogen)	Nitrate	Sulfide	Total Organic Carbon	Orthophosphate	Methane	Ethane	Ethene
CAS No.						--	14797-55-8	18496-25-8	TOC	14265-44-2	74-82-8	74-84-0	74-85-1
MTCA Method A CUL [1]						--	--	--	--	--	--	--	--
Unit						mg/L	mg-N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sample Date	Aquifer Zone	Screen Interval (feet bgs)	Elevation TOC (feet NAVD 88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD 88)								
BSCSS-S-MW-5R													
4/10/2024	Shallow	15–25	43.66	7.56	36.10		0.41		1.0	0.026	0.41	0.00056 U	0.00058 U
9/23/2024	Shallow	15–25	43.66	8.39	35.27		0.47		1.0 U	0.031	0.56	0.00056 U	0.00058 U
5/5/2025	Shallow	15–25	43.66	7.97	35.69		1.4		1.0 U	0.22	15	0.00056 U	0.00058 U
9/22/2025	Shallow	15–25	43.66	15.45	28.21		0.15		920	110	0.14	0.00056 U	0.0022

Notes:

All blank cells are intentional.
All chemistry results are rounded to two significant figures.
Field parameters are reported as displayed by the sampling equipment.
-- Not available.
Italic Analyte was not detected at a reporting limit greater than the CUL.
RED/BOLD Analyte was detected at a concentration greater than the CUL.
Well is inactive or decommissioned.
1 CULs are based on MTCA Method A values, except for cis- and trans-1,2-dichloroethene, which use MTCA Method B.
2 Ferrous iron result not recorded.

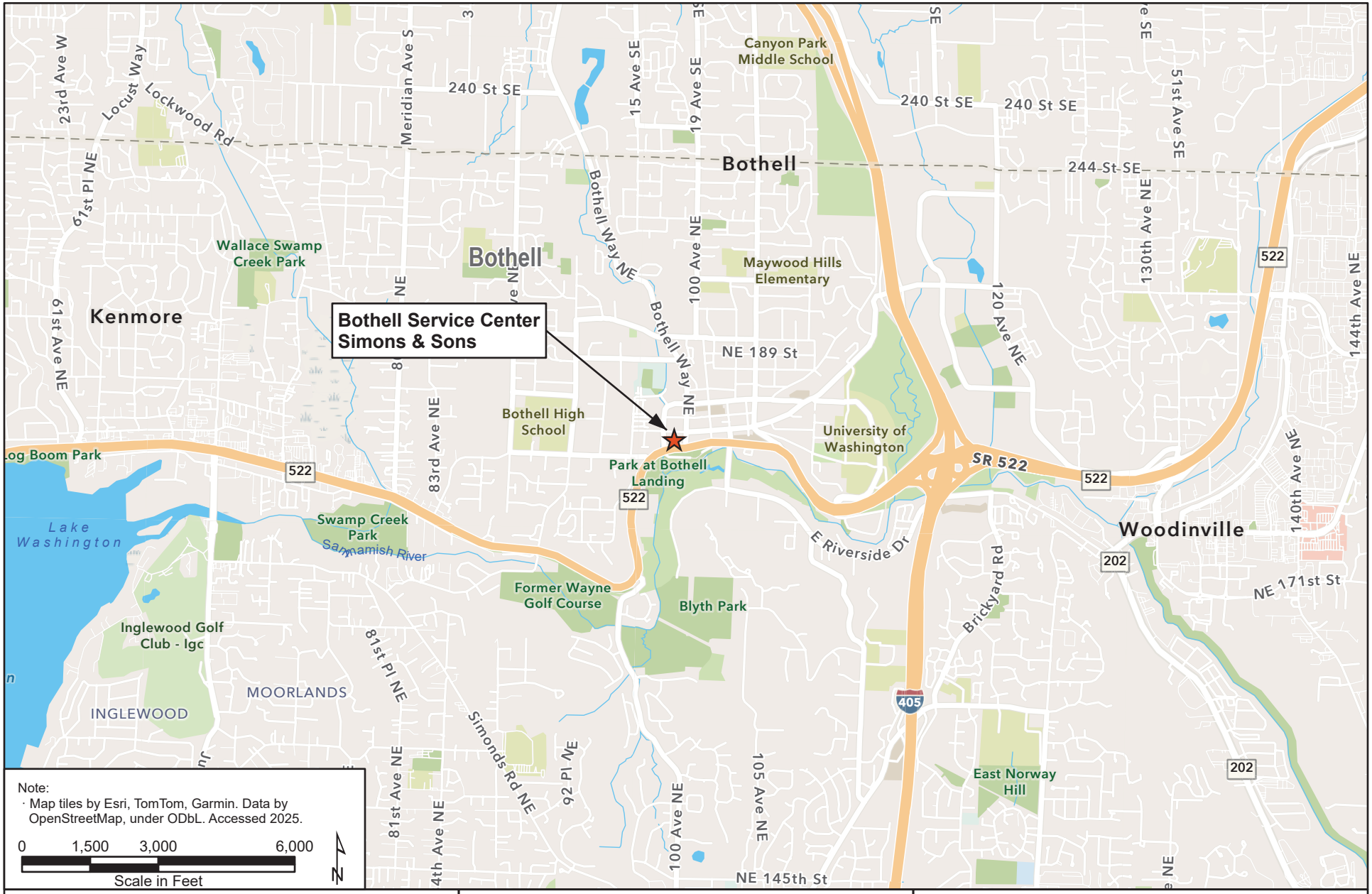
Abbreviations:

bgs Below ground surface
BTOC Below top of casing
°C Degrees Celsius
CAS Chemical Abstracts Service
CUL Cleanup level
µg/L Micrograms per liter
µS/cm Microsiemens per centimeter
mg/L Milligrams per liter
mg-N/L Milligrams of nitrogen per liter
MTCA Model Toxics Control Act
mV Millivolts
NAVD 88 North American Vertical Datum of 1988
NTU Nephelometric turbidity units
ORP Oxidation–reduction potential
TOC Top of casing
VOC Volatile organic compound

Qualifiers:

J Analyte was detected; concentration is an estimate.
U Analyte was not detected at the associated reporting limit.
UJ Analyte was not detected at the associated reporting limit, which is an estimate.

Figures



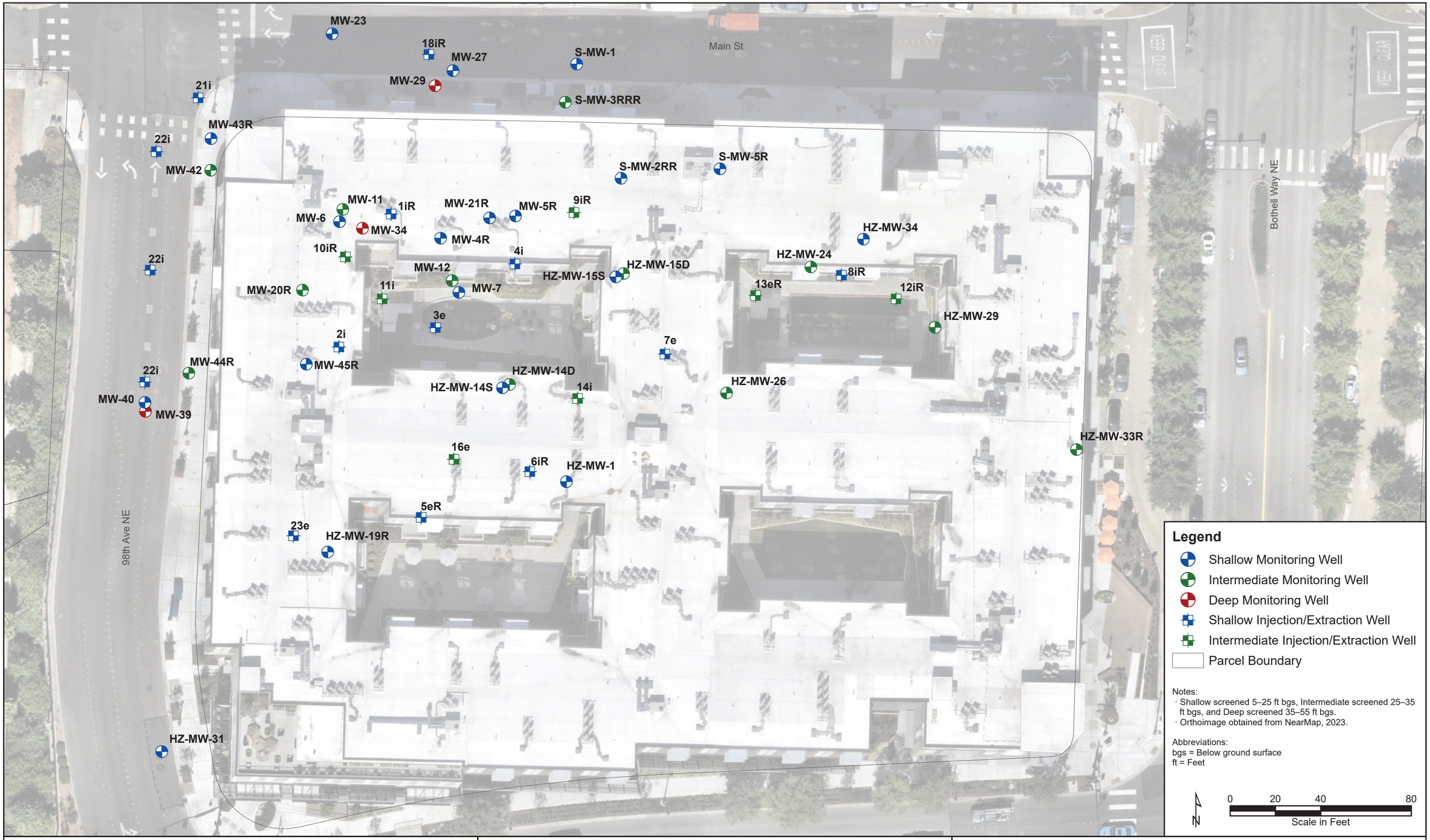
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Figure 1
Vicinity Map

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Legend

- Shallow Monitoring Well
- Intermediate Monitoring Well
- Deep Monitoring Well
- Shallow Injection/Extraction Well
- Intermediate Injection/Extraction Well
- Parcel Boundary

Notes:
- Shallow screened 5–25 ft bgs, Intermediate screened 25–35 ft bgs, and Deep screened 35–55 ft bgs.
- Orthoimage obtained from NearMap, 2023.

Abbreviations:
bgs = Below ground surface
ft = Feet

N

0 20 40 80
Scale in Feet

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Figure 2
Site Map

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Figure 3
Shallow Aquifer Zone Wells (5–25 ft bgs)

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Figure 4
Intermediate Aquifer Zone Wells (25–35 ft bgs)

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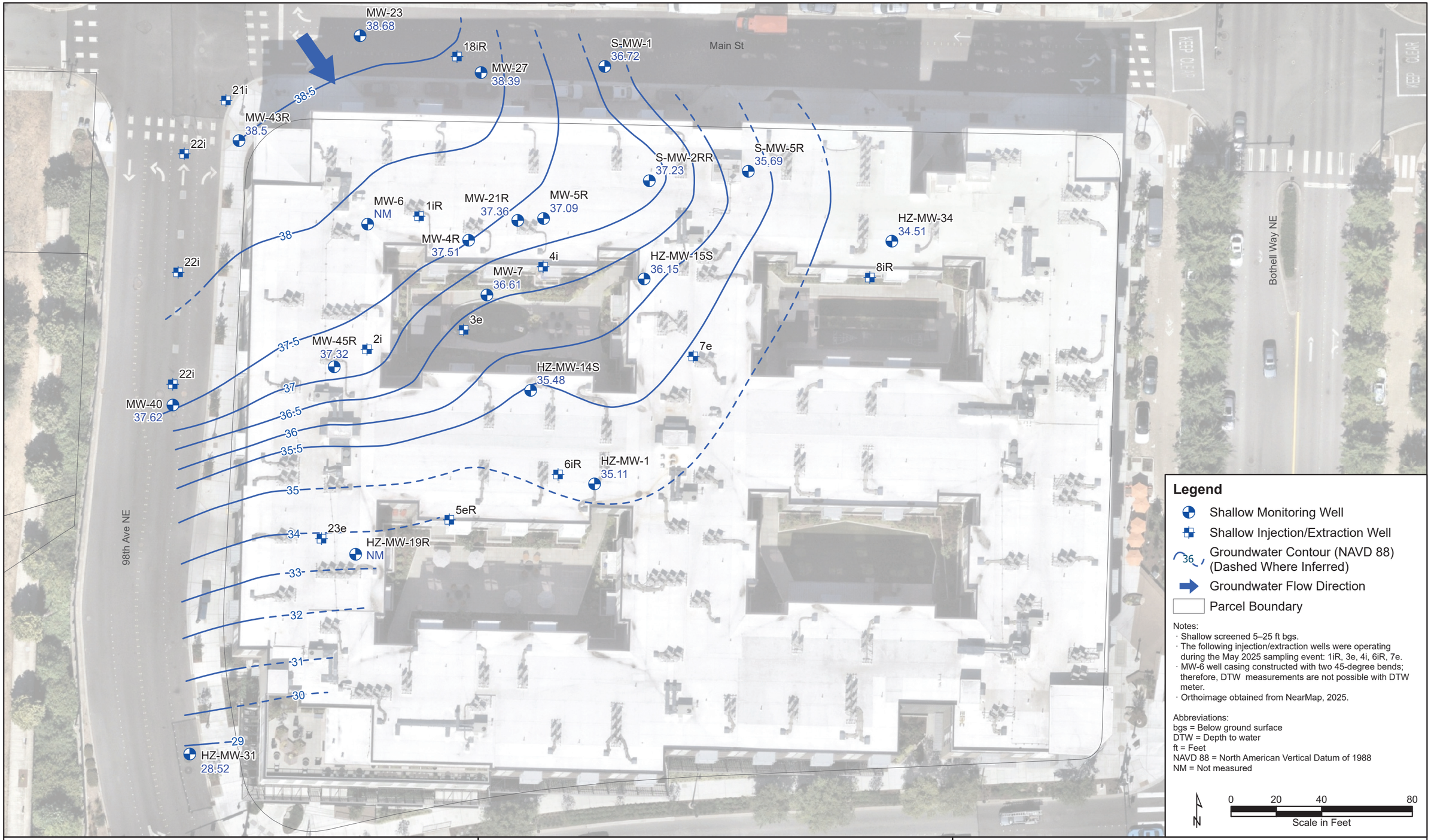
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Figure 5
Deep Aquifer Zone Wells (35–55 ft bgs)

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Legend

- Shallow Monitoring Well
- Shallow Injection/Extraction Well
- Groundwater Contour (NAVD 88) (Dashed Where Inferred)
- Groundwater Flow Direction
- Parcel Boundary

Notes:
- Shallow screened 5–25 ft bgs.
- The following injection/extraction wells were operating during the May 2025 sampling event: 1iR, 3e, 4i, 6iR, 7e.
- MW-6 well casing constructed with two 45-degree bends; therefore, DTW measurements are not possible with DTW meter.
- Orthoimage obtained from NearMap, 2025.

Abbreviations:
bgs = Below ground surface
DTW = Depth to water
ft = Feet
NAVD 88 = North American Vertical Datum of 1988
NM = Not measured

N

0 20 40 80
Scale in Feet

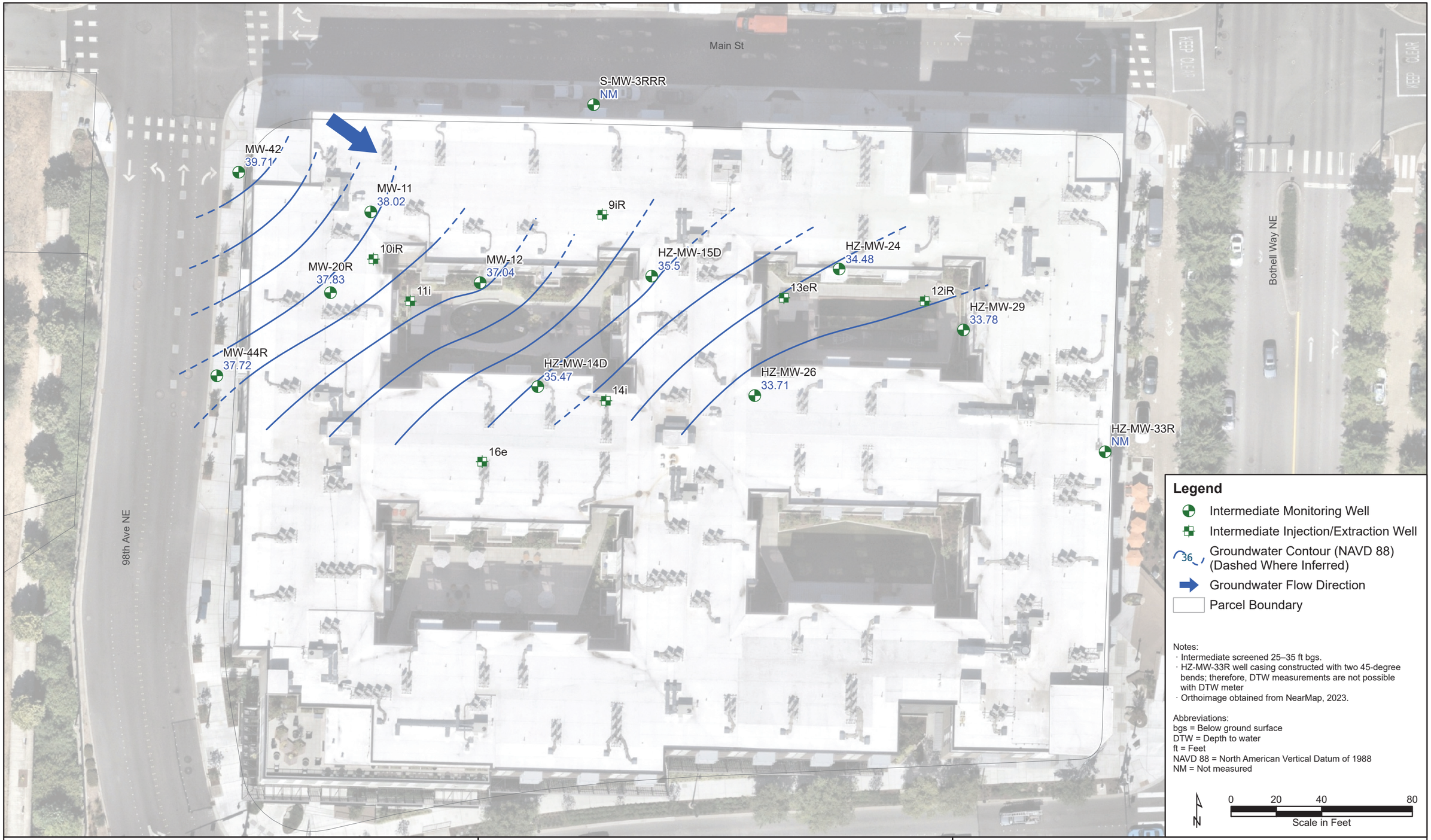
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Figure 6a
Groundwater Elevation & Contour Map
Shallow Aquifer Zone Wells (5–25 ft bgs)
May 2025 (System On)

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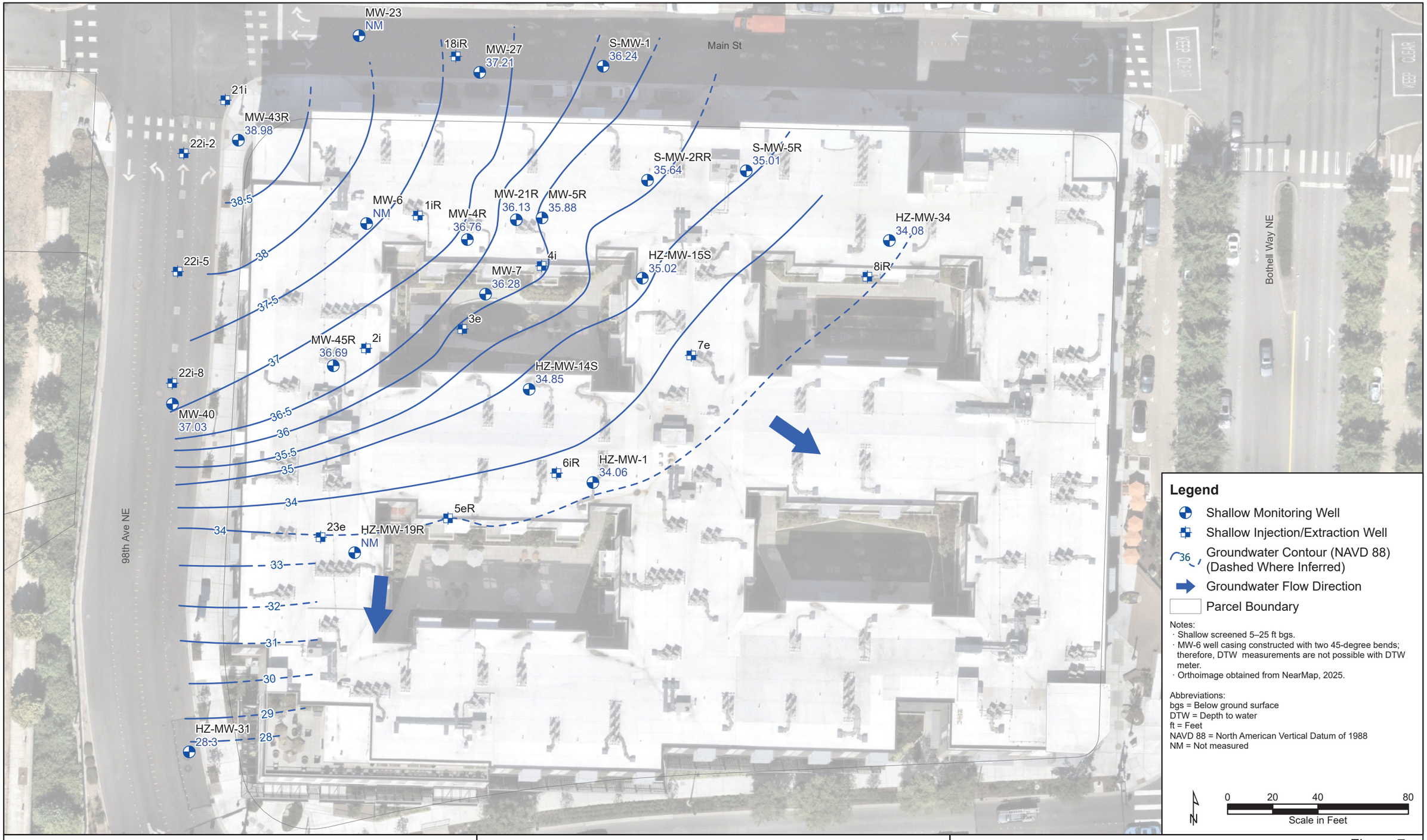
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Figure 6b
Groundwater Elevation & Contour Map
Intermediate Aquifer Zone Wells (25–35 ft bgs)
May 2025 (System On)

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Legend

- Shallow Monitoring Well
- Shallow Injection/Extraction Well
- Groundwater Contour (NAVD 88) (Dashed Where Inferred)
- Groundwater Flow Direction
- Parcel Boundary

Notes:
- Shallow screened 5–25 ft bgs.
- MW-6 well casing constructed with two 45-degree bends; therefore, DTW measurements are not possible with DTW meter.
- Orthoimage obtained from NearMap, 2025.

Abbreviations:
bgs = Below ground surface
DTW = Depth to water
ft = Feet
NAVD 88 = North American Vertical Datum of 1988
NM = Not measured

N

0 20 40 80
Scale in Feet

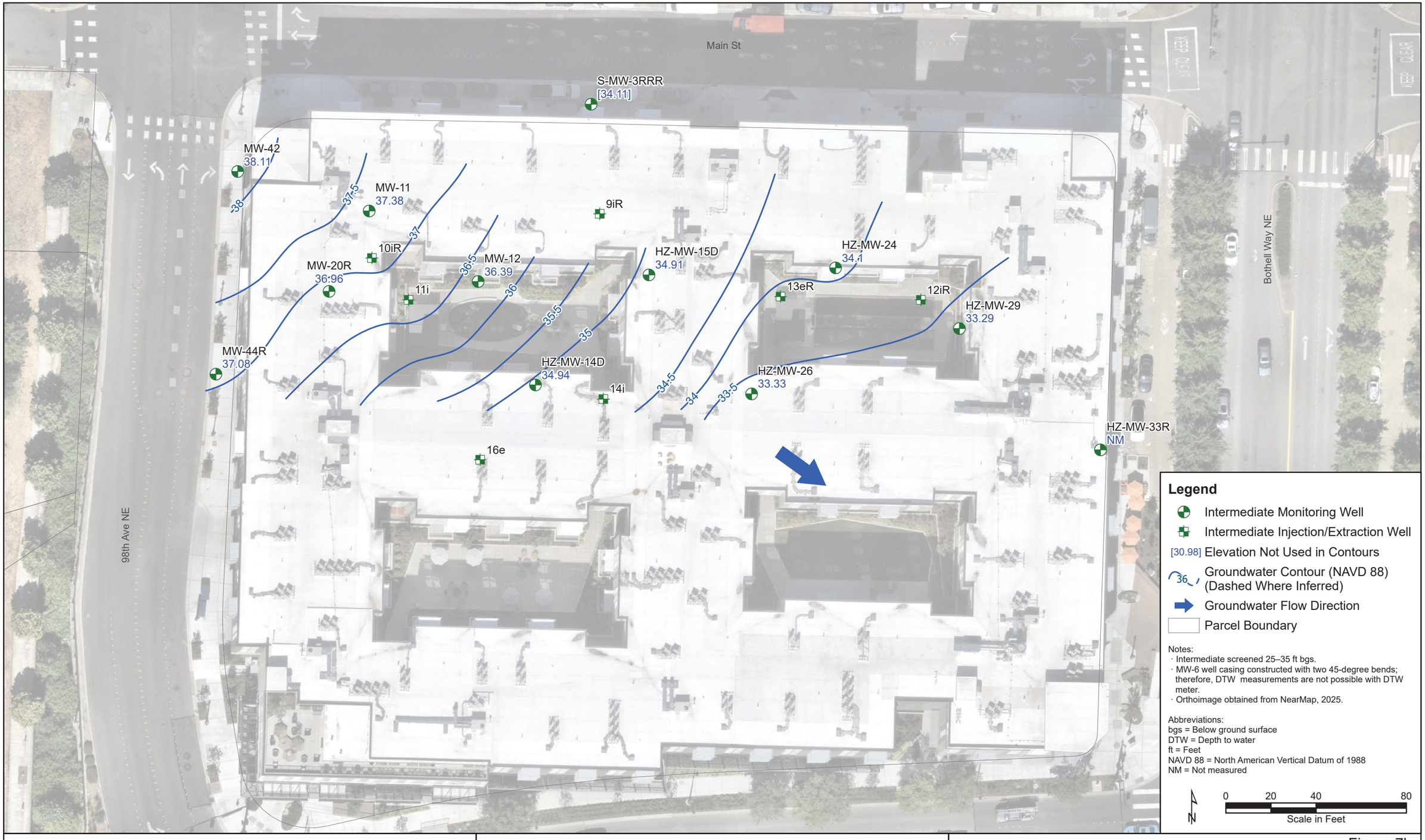
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Figure 7a
Groundwater Elevation & Contour Map
Shallow Aquifer Zone Wells (5–25 ft bgs)
September 2025 (System Off)

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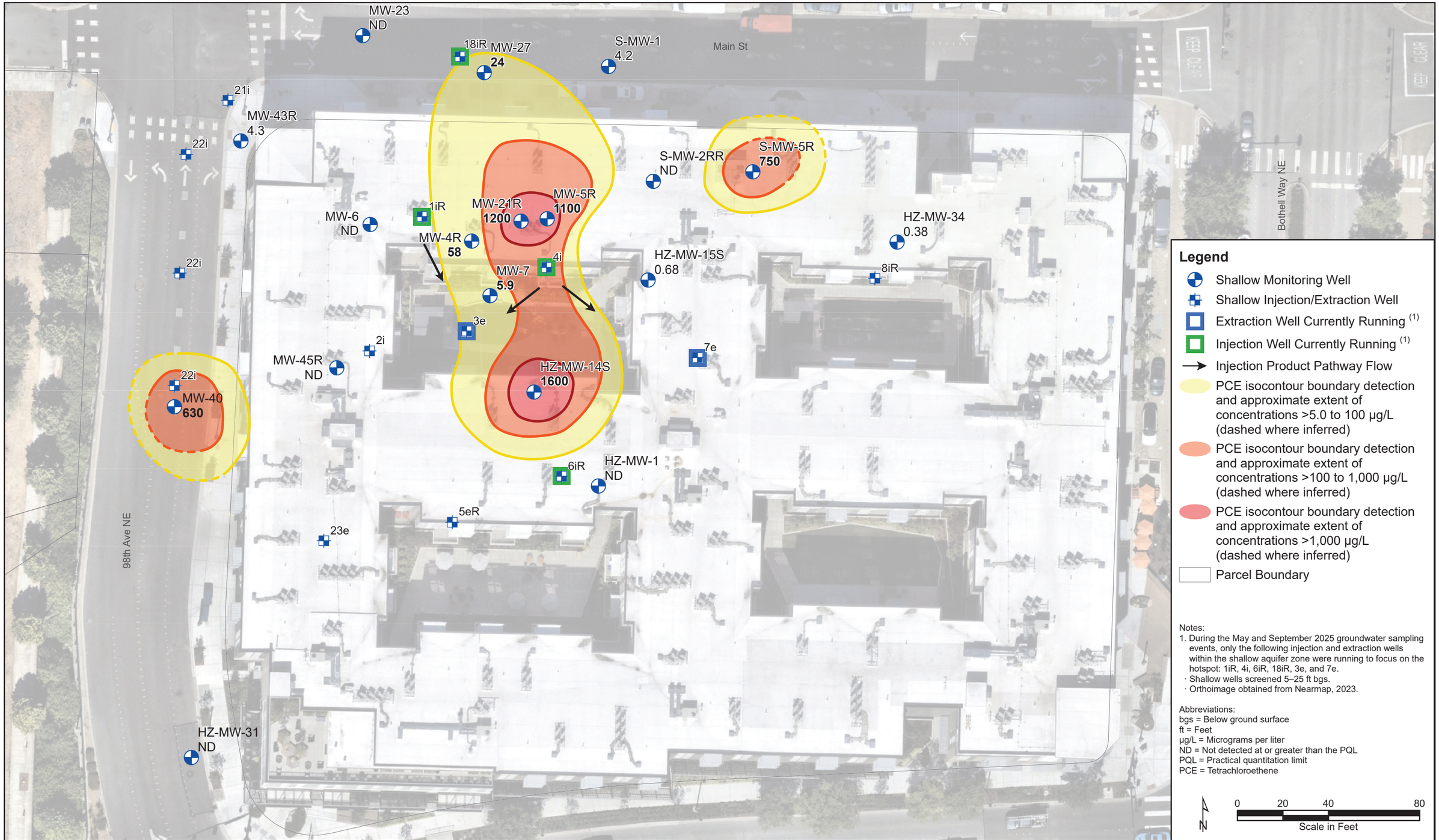
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Figure 7b
Groundwater Elevation & Contour Map
Intermediate Aquifer Zone Wells (25–35 ft bgs)
September 2025 (System Off)

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Legend

- Shallow Monitoring Well
- Shallow Injection/Extraction Well
- Extraction Well Currently Running (1)
- Injection Well Currently Running (1)
- Injection Product Pathway Flow
- PCE isocontour boundary detection and approximate extent of concentrations >5.0 to 100 µg/L (dashed where inferred)
- PCE isocontour boundary detection and approximate extent of concentrations >100 to 1,000 µg/L (dashed where inferred)
- PCE isocontour boundary detection and approximate extent of concentrations >1,000 µg/L (dashed where inferred)
- Parcel Boundary

Notes:
1. During the May and September 2025 groundwater sampling events, only the following injection and extraction wells within the shallow aquifer zone were running to focus on the hotspot: 1iR, 4i, 6iR, 18iR, 3e, and 7e.
· Shallow wells screened 5–25 ft bgs.
· Orthoimage obtained from Nearmap, 2023.

Abbreviations:
bgs = Below ground surface
ft = Feet
µg/L = Micrograms per liter
ND = Not detected at or greater than the PQL
PQL = Practical quantitation limit
PCE = Tetrachloroethene

N

0 20 40 80
Scale in Feet

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Figure 8a
September 2025 PCE Isocontours and Concentrations
Shallow Aquifer Zone Wells (5–25 ft bgs)

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Legend

- Intermediate Monitoring Well
- Intermediate Injection/Extraction Well
- Extraction Well Currently Running (1)
- Injection Well Currently Running (1)
- Injection Product Pathway Flow
- PCE isocontour boundary detection and approximate extent of concentrations >5.0 to 100 µg/L (dashed where inferred)
- PCE isocontour boundary detection and approximate extent of concentrations >100 to 1,000 µg/L (dashed where inferred)
- PCE isocontour boundary detection and approximate extent of concentrations >1,000 µg/L (dashed where inferred)
- Parcel Boundary

Notes:
1. During the May and September 2025 groundwater sampling events, only the following injection and extraction wells within the intermediate aquifer zone were running to focus on the hotspot: 11i, 9iR, and 13eR.
· Intermediate wells screened 25–35 ft bgs.
· Orthoimage obtained from Nearmap, 2025.

Abbreviations:
bgs = Below ground surface
ft = Feet
µg/L = Micrograms per liter
ND = Not detected at or greater than the PQL
PQL = Practical quantitation limit
PCE = Tetrachloroethene

N

0 20 40 80
Scale in Feet

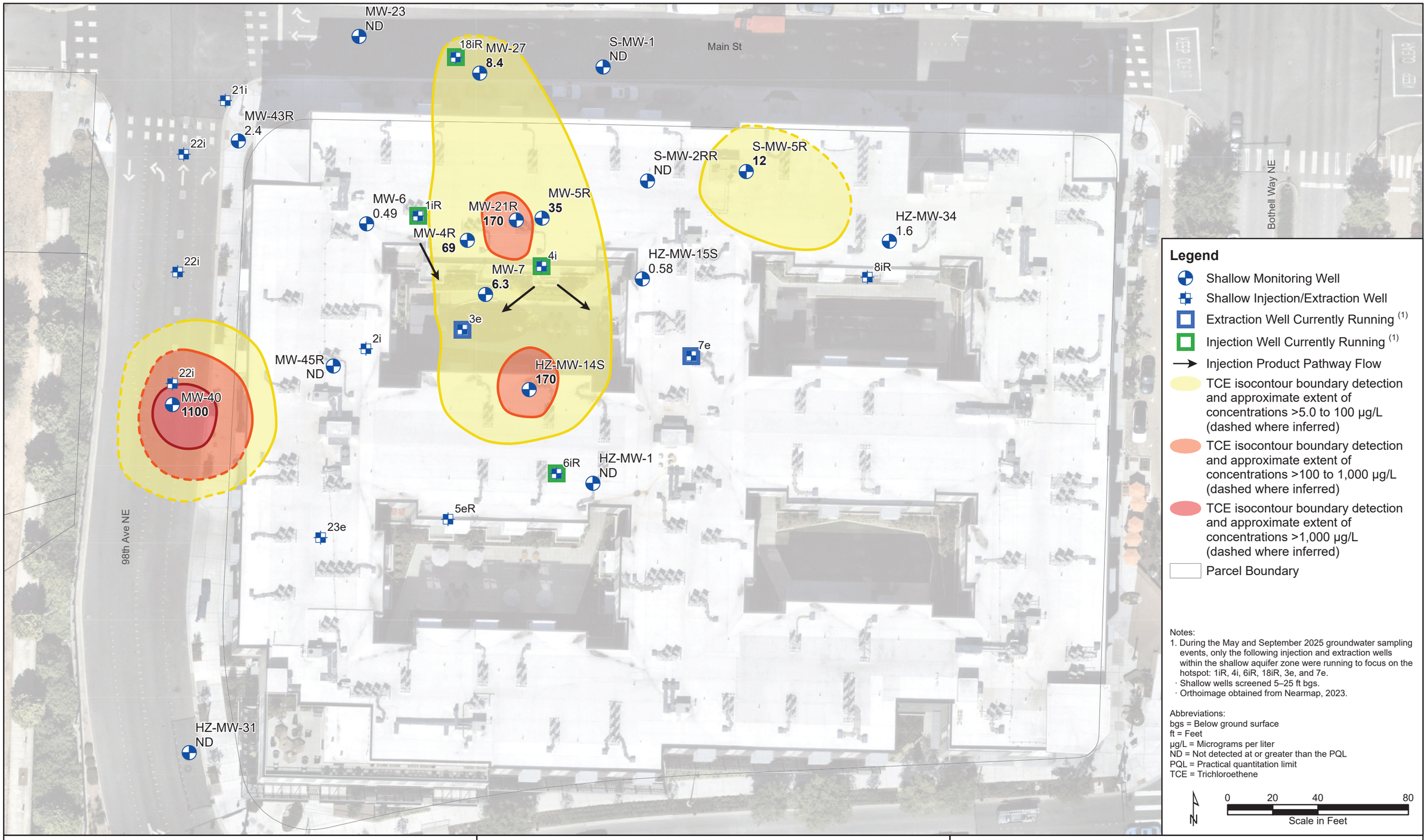
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Figure 8b
September 2025 PCE Isocontours and Concentrations
Intermediate Aquifer Zone Wells (25–35 ft bgs)

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Legend

- Shallow Monitoring Well
- Shallow Injection/Extraction Well
- Extraction Well Currently Running (1)
- Injection Well Currently Running (1)
- Injection Product Pathway Flow
- TCE isocontour boundary detection and approximate extent of concentrations >5.0 to 100 µg/L (dashed where inferred)
- TCE isocontour boundary detection and approximate extent of concentrations >100 to 1,000 µg/L (dashed where inferred)
- TCE isocontour boundary detection and approximate extent of concentrations >1,000 µg/L (dashed where inferred)
- Parcel Boundary

Notes:
1. During the May and September 2025 groundwater sampling events, only the following injection and extraction wells within the shallow aquifer zone were running to focus on the hotspot: 1iR, 4i, 6iR, 18iR, 3e, and 7e.
· Shallow wells screened 5–25 ft bgs.
· Orthoimage obtained from Nearmap, 2023.

Abbreviations:
bgs = Below ground surface
ft = Feet
µg/L = Micrograms per liter
ND = Not detected at or greater than the PQL
PQL = Practical quantitation limit
TCE = Trichloroethene

N

0 20 40 80
Scale in Feet

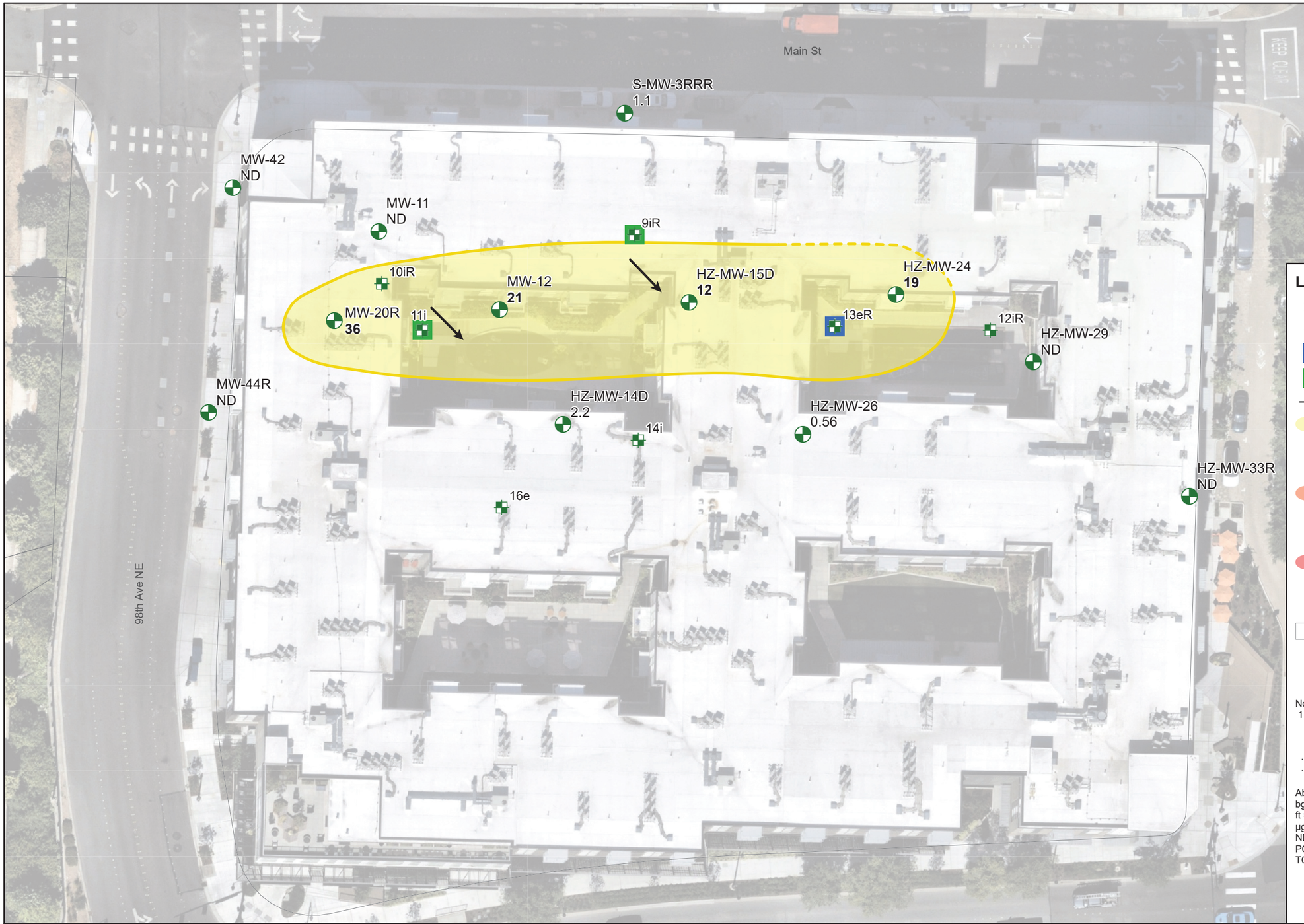
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Figure 9a
September 2025 TCE Isocontours and Concentrations
Shallow Aquifer Zone Wells (5–25 ft bgs)

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Legend

- Intermediate Monitoring Well
- Intermediate Injection/Extraction Well
- Extraction Well Currently Running (1)
- Injection Well Currently Running (1)
- Injection Product Pathway Flow
- TCE isocontour boundary detection and approximate extent of concentrations >5.0 to 100 µg/L (dashed where inferred)
- TCE isocontour boundary detection and approximate extent of concentrations >100 to 1,000 µg/L (dashed where inferred)
- TCE isocontour boundary detection and approximate extent of concentrations >1,000 µg/L (dashed where inferred)
- Parcel Boundary

Notes:
1. During the May and September 2025 groundwater sampling events, only the following injection and extraction wells within the intermediate aquifer zone were running to focus on the hotspot: 11i, 9iR, and 13eR.
- Intermediate wells screened 25–35 ft bgs.
- Orthoimage obtained from Nearmap, 2025.

Abbreviations:
bgs = Below ground surface
ft = Feet
µg/L = Micrograms per liter
ND = Not detected at or greater than the PQL
PQL = Practical quantitation limit
TCE = Trichloroethene

N

0 20 40 80
Scale in Feet

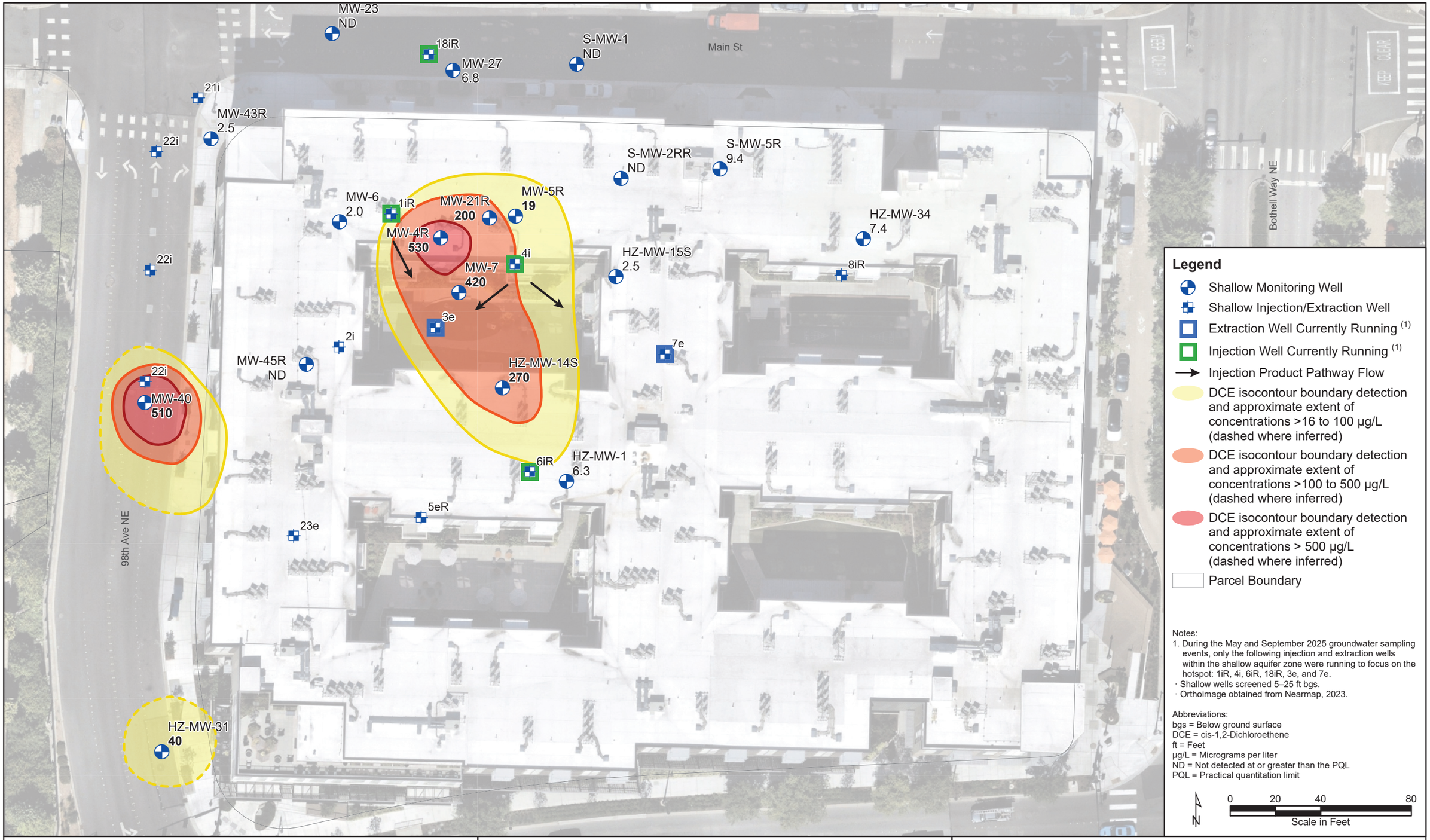
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Figure 9b
September 2025 TCE Isocontours and Concentrations
Intermediate Aquifer Zone Wells (25–35 ft bgs)

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Legend

- Shallow Monitoring Well
- Shallow Injection/Extraction Well
- Extraction Well Currently Running (1)
- Injection Well Currently Running (1)
- Injection Product Pathway Flow
- DCE isocontour boundary detection and approximate extent of concentrations >16 to 100 µg/L (dashed where inferred)
- DCE isocontour boundary detection and approximate extent of concentrations >100 to 500 µg/L (dashed where inferred)
- DCE isocontour boundary detection and approximate extent of concentrations > 500 µg/L (dashed where inferred)
- Parcel Boundary

Notes:
1. During the May and September 2025 groundwater sampling events, only the following injection and extraction wells within the shallow aquifer zone were running to focus on the hotspot: 1iR, 4i, 6iR, 18iR, 3e, and 7e.
· Shallow wells screened 5–25 ft bgs.
· Orthoimage obtained from Nearmap, 2023.

Abbreviations:
bgs = Below ground surface
DCE = cis-1,2-Dichloroethene
ft = Feet
µg/L = Micrograms per liter
ND = Not detected at or greater than the PQL
PQL = Practical quantitation limit

N

0 20 40 80
Scale in Feet

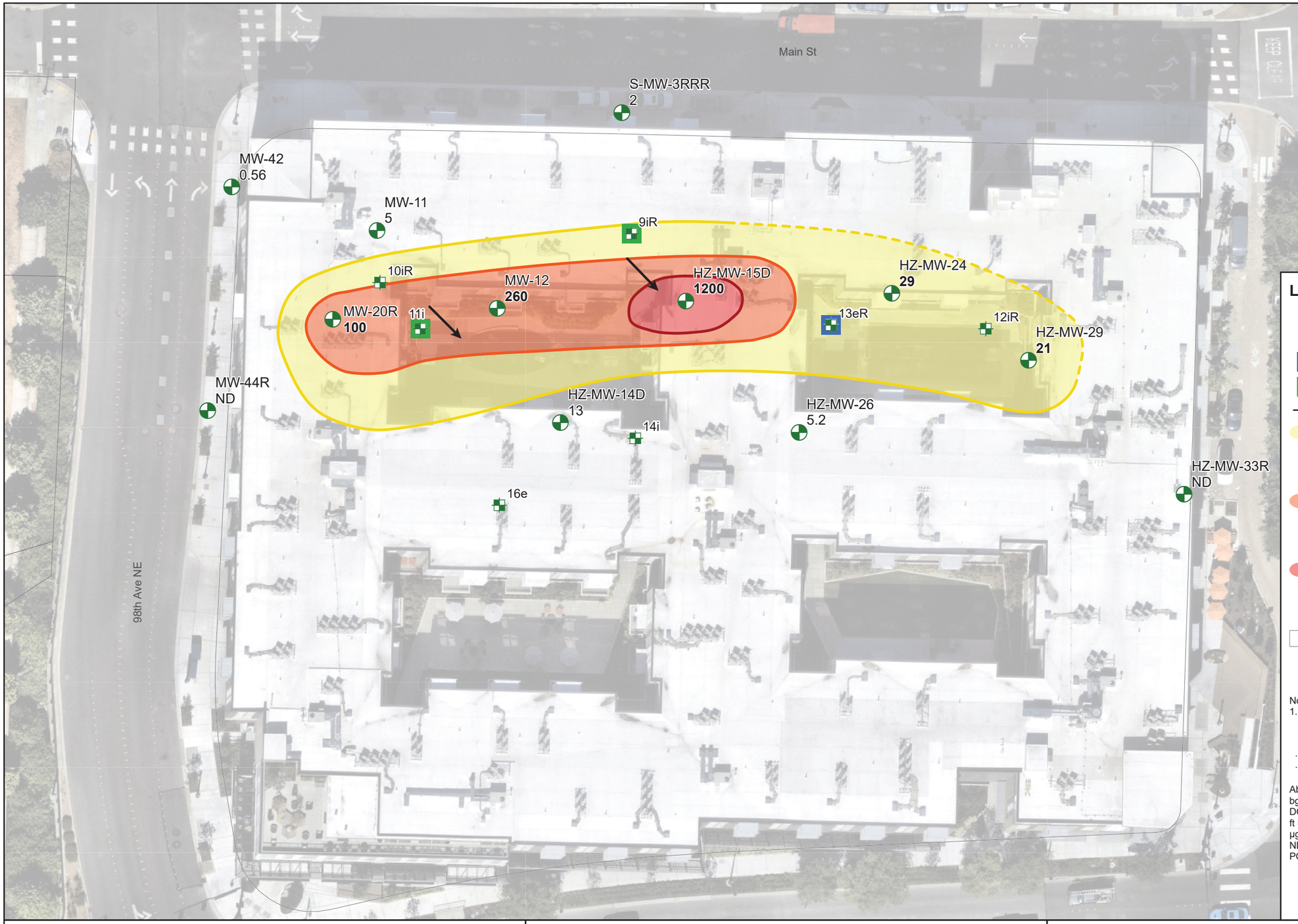
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Figure 10a
September 2025 DCE Isocontours and Concentrations
Shallow Aquifer Zone Wells (5–25 ft bgs)

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Legend

- Intermediate Monitoring Well
- Intermediate Injection/Extraction Well
- Extraction Well Currently Running (1)
- Injection Well Currently Running (1)
- Injection Product Pathway Flow
- DCE isocontour boundary detection and approximate extent of concentrations >16 to 100 µg/L (dashed where inferred)
- DCE isocontour boundary detection and approximate extent of concentrations >100 to 500 µg/L (dashed where inferred)
- DCE isocontour boundary detection and approximate extent of concentrations > 500 µg/L (dashed where inferred)
- Parcel Boundary

Notes:
1. During the May and September 2025 groundwater sampling events, only the following injection and extraction wells within the intermediate aquifer zone were running to focus on the hotspot: 11i, 9iR, and 13eR.
   · Intermediate wells screened 25–35 ft bgs.
   · Orthoimage obtained from Nearmap, 2025.

Abbreviations:
bgs = Below ground surface
DCE = cis-1,2-Dichloroethene
ft = Feet
µg/L = Micrograms per liter
ND = Not detected at or greater than the PQL
PQL = Practical quantitation limit

N

0 20 40 80
Scale in Feet

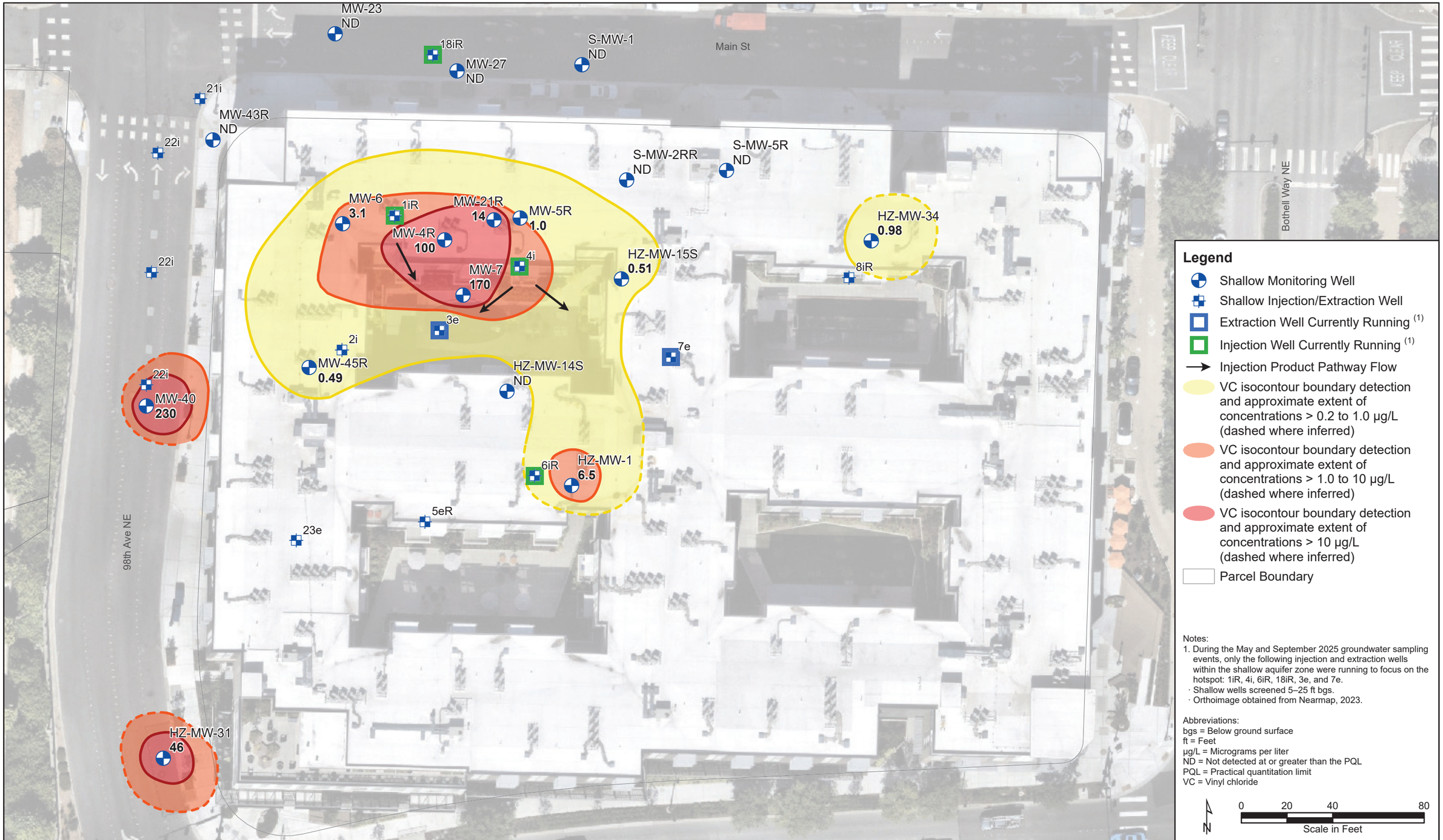
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Figure 10b
September 2025 DCE Isocontours and Concentrations
Intermediate Aquifer Zone Wells (25–35 ft bgs)

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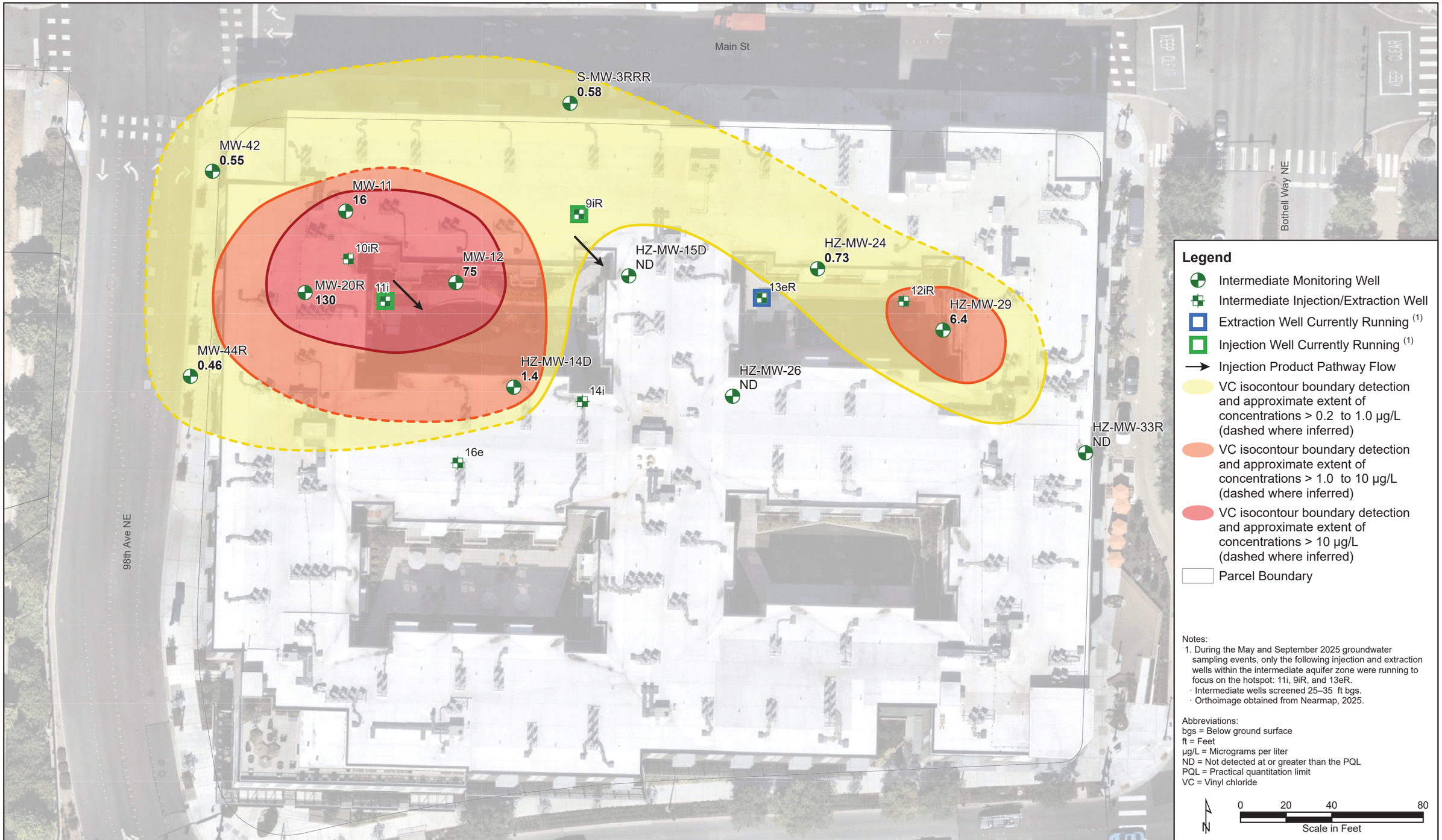
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Figure 11a
September 2025 Vinyl Chloride Isocontours and Concentrations
Shallow Aquifer Zone Wells (5–25 ft bgs)

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Notes:
1. During the May and September 2025 groundwater sampling events, only the following injection and extraction wells within the intermediate aquifer zone were running to focus on the hotspot: 11i, 9iR, and 13eR.
   · Intermediate wells screened 25–35 ft bgs.
   · Orthoimage obtained from Nearmap, 2025.

Abbreviations:
bgs = Below ground surface
ft = Feet
µg/L = Micrograms per liter
ND = Not detected at or greater than the PQL
PQL = Practical quantitation limit
VC = Vinyl chloride

N

0 20 40 80
Scale in Feet

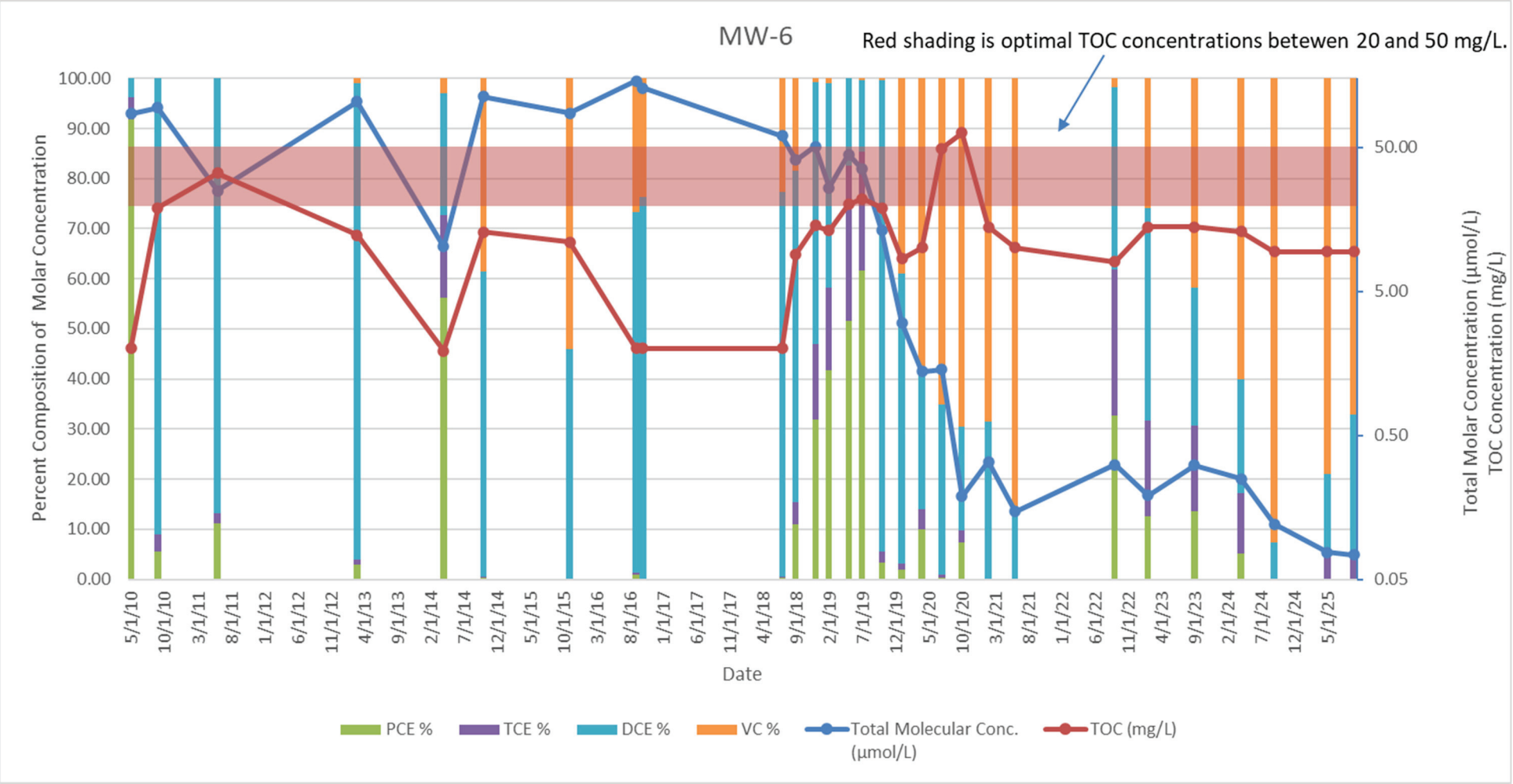
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2025 Annual Groundwater Monitoring
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Figure 11b
September 2025 Vinyl Chloride Isocontours and Concentrations
Intermediate Aquifer Zone Wells (25–35 ft bgs)

I:\GIS\Projects\COB\COB-BSC\01-Tasks\01-Annual GW Monitoring Report\02-2025\GWMonitoring2025.aprx
12/10/2025

Draft



Abbreviations:
DCE = cis- and trans-1,2-Dichloroethene, µmol/L = Micromoles per liter, mg/L = Milligrams per liter, PCE = Tetrachloroethene, TCE = Trichloroethene, TOC = Total organic carbon, VC = Vinyl chloride

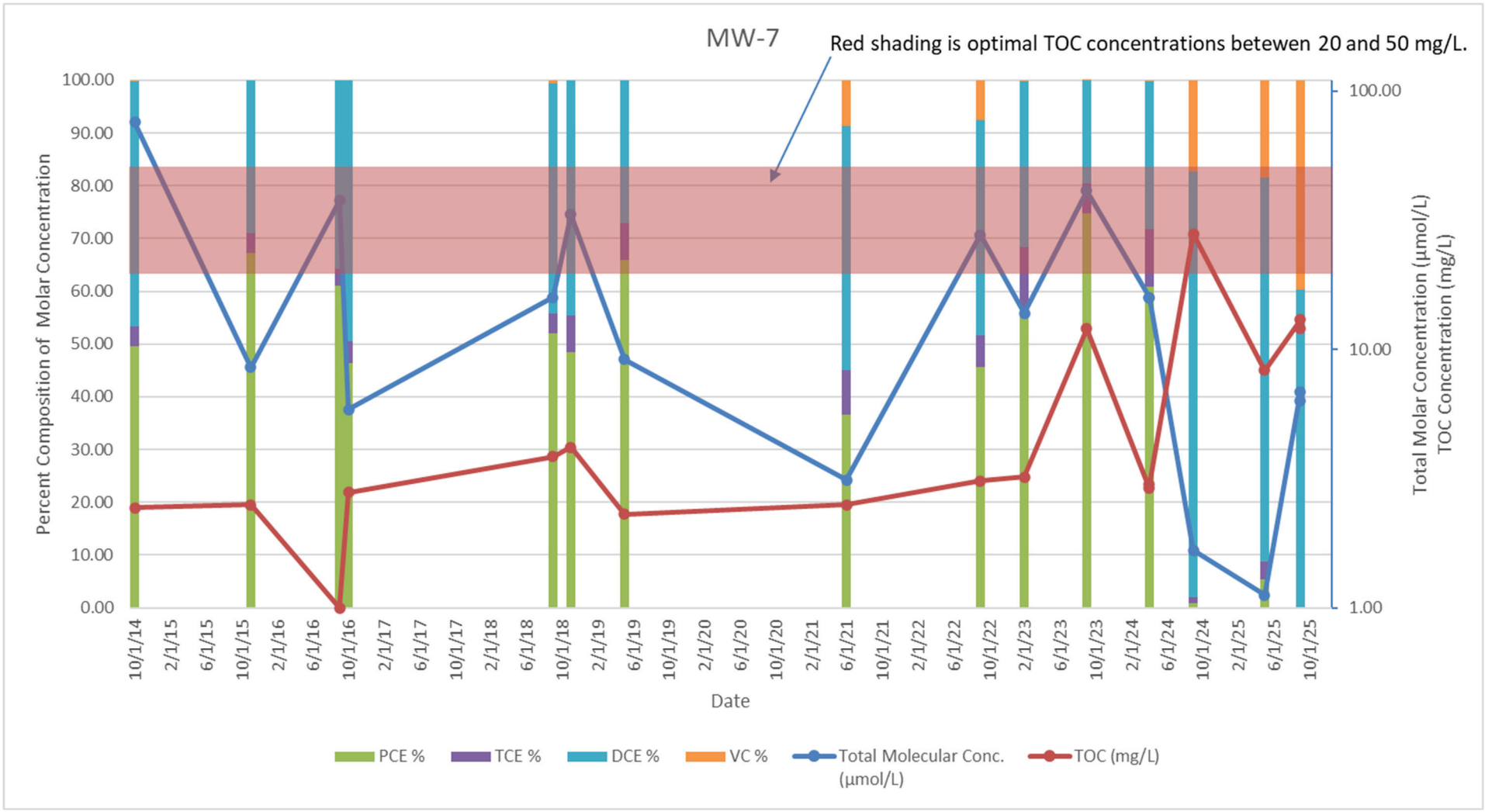
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Figure 12
MW-6 Stacked Molar Concentrations

12/11/2025

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Abbreviations:
DCE = cis- and trans-1,2-Dichloroethene, µmol/L = Micromoles per liter, mg/L = Milligrams per liter, PCE = Tetrachloroethene, TCE = Trichloroethene, TOC = Total organic carbon, VC = Vinyl Chloride

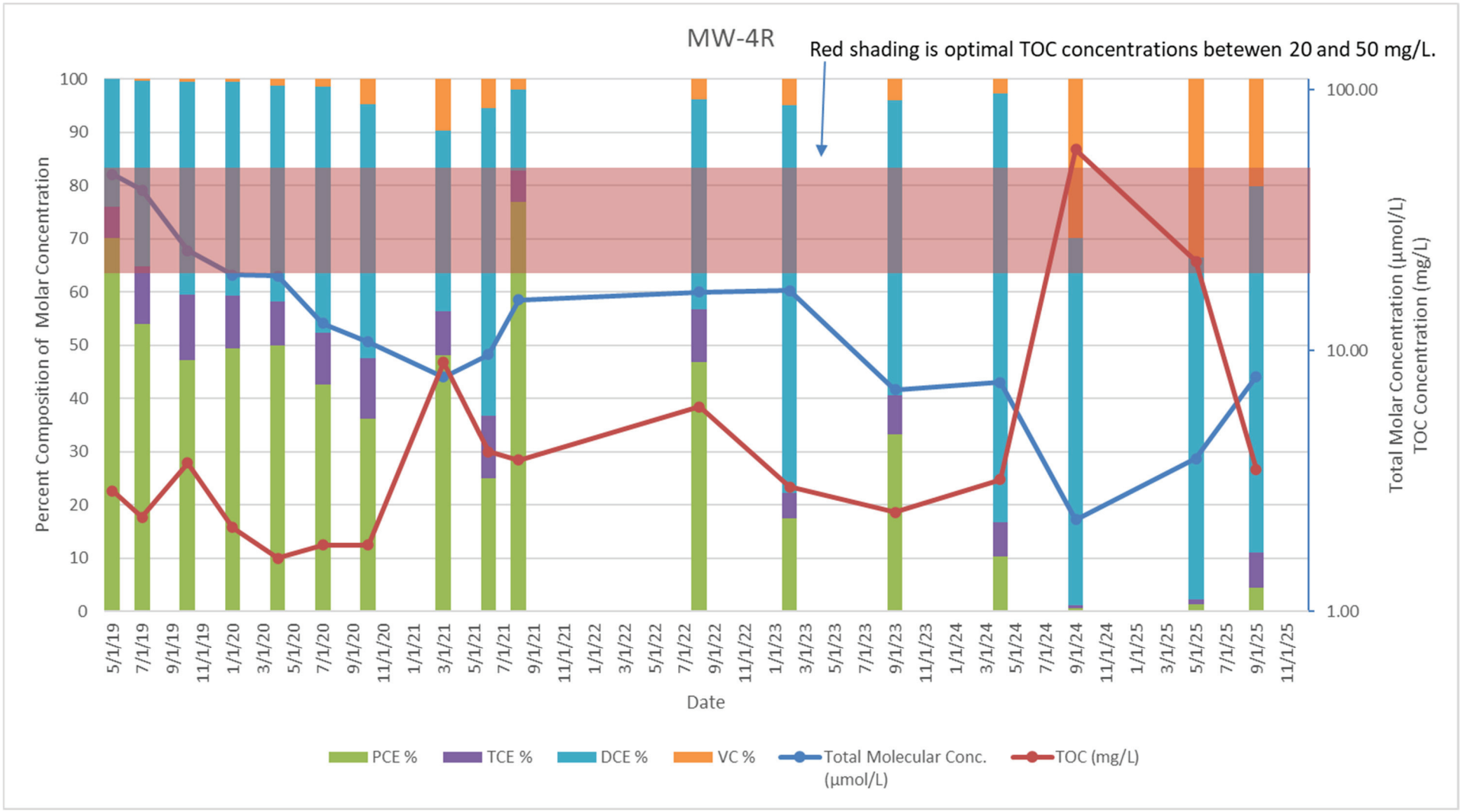
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Figure 13
MW-7 Stacked Molar Concentrations

12/11/2025

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Abbreviations:
DCE = cis- and trans-1,2-Dichloroethene, µmol/L = Micromoles per liter, mg/L = Milligrams per liter, PCE = Tetrachloroethene, TCE = Trichloroethene, TOC = Total organic carbon, VC = Vinyl chloride

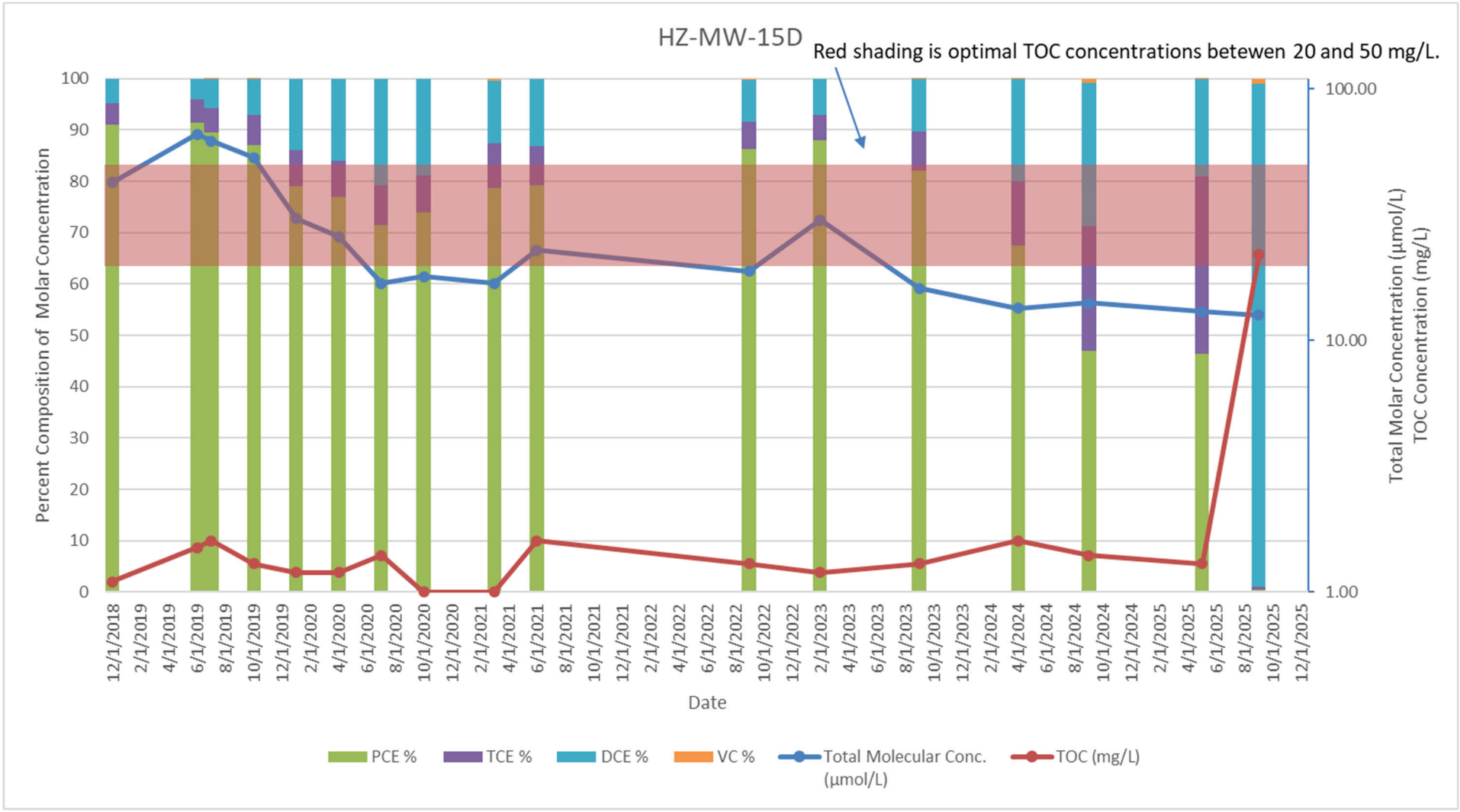
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Figure 14
MW-4R Stacked Molar Concentrations

12/11/2025

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Abbreviations:
DCE = cis- and trans-1,2-Dichloroethene, µmol/L = Micromoles per liter, mg/L = Milligrams per liter, PCE = Tetrachloroethene, TCE = Trichloroethene, TOC = Total organic carbon, VC = Vinyl chloride

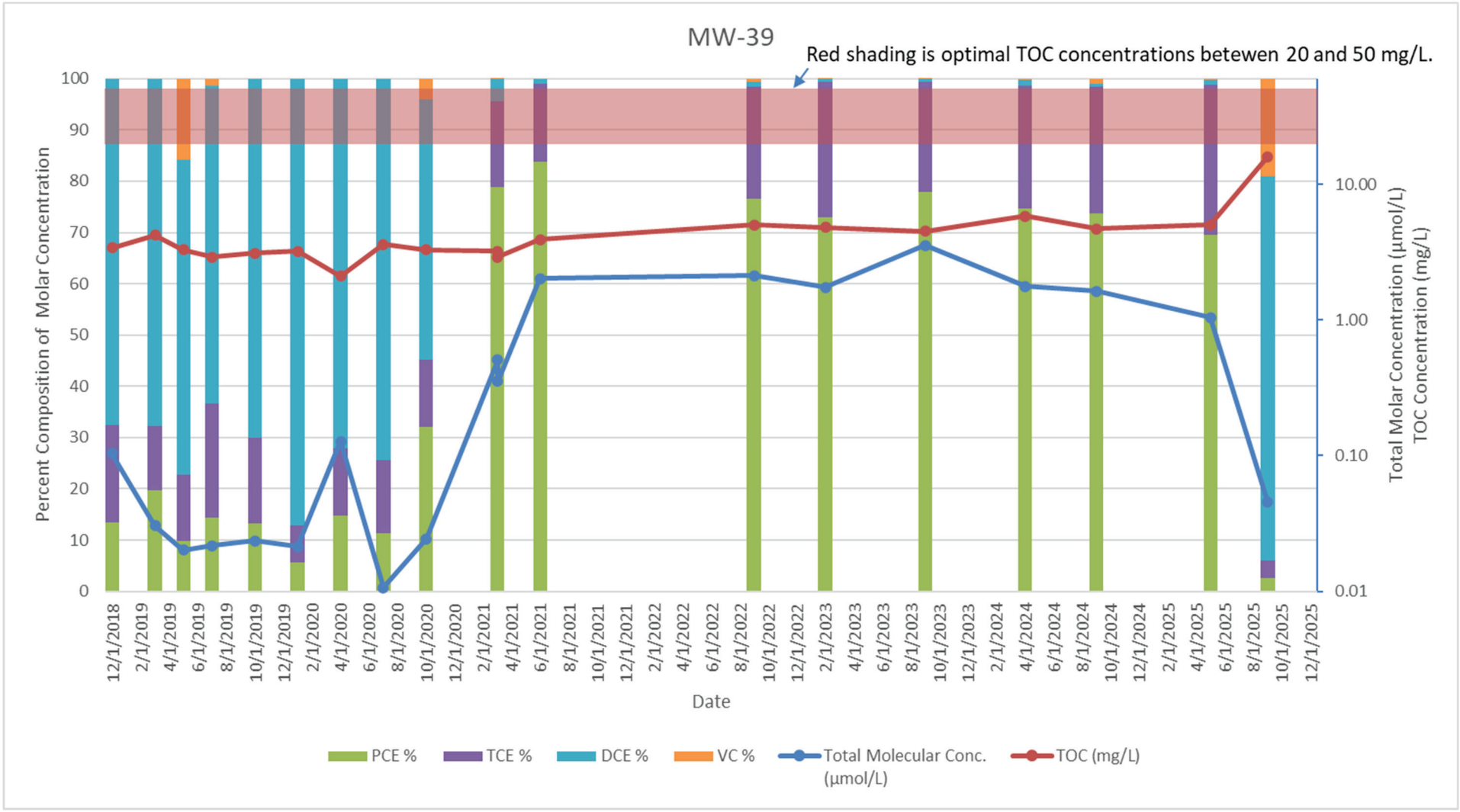
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Figure 15
HZ-MW-15D Stacked Molar Concentrations

12/11/2025

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Abbreviations:
DCE = cis- and trans-1,2-Dichloroethene, µmol/L = Micromoles per liter, mg/L = Milligrams per liter, PCE = Tetrachloroethene, TCE = Trichloroethene, TOC = Total organic carbon, VC = Vinyl chloride

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Figure 16
MW-39 Stacked Molar Concentrations

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Attachment 1
Groundwater Sampling Field Forms and O&M Forms

Groundwater Sample Form

HZ-MW-1

Submitted Time: May 8, 2025 1:38 PM
Date of Collection: 05, 6, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Danielle G
Ecology Tag #:
Location ID: HZ-MW-1
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 5
Screen Interval Lower Depth: 15
Total Depth: 16.79
Casing Diameter: 1.25

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 8.6
Initial Depth to Water Collection Time: 13:04
Begin Purge: 13:11
Depth to Water After 5 Minutes of Purging:
Ferrous Iron Field Measurement Result (mg/L): 4.75

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
13:15	10.48	0	6.37	5.97	789	9.1	13.3	233.8	
13:20	13	0.5	6.39	3.61	786	8.51	13.2	229.7	Ran dry, turned pump off
13:37	10.1	1	6.43	2.09	791	8.19	13.9	220.7	
13:40	13.1	1.5	6.45	1.89	772	9.95	12.9	220.1	Run dry, pump off

Sampling Data

Sample ID: HZ-MW-1-050625
Sample Time Collected: 14:10
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 15
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.: 3323
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Sampled before fully purging due to repetitive run dry
Clear w/ particulates

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

HZ-MW-14D

Submitted Time: May 7, 2025 7:13 AM
Date of Collection: 05, 6, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Ryne A
Ecology Tag #:
Location ID: HZ-MW-14D
Weather: Sunny, Cold (< 70° F)

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 30
Screen Interval Lower Depth: 40
Total Depth: 40.99
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 8.63
Initial Depth to Water Collection Time: 13:04
Begin Purge: 13:14
Depth to Water After 5 Minutes of Purging: 9.3
Ferrous Iron Field Measurement Result (mg/L): 0.5

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
13:14	9.3	1	6.29	1.07	444.6	4.01	14.6	169.5	
13:17	9.64	1.5	6.35	0.66	446.2	2.14	14.5	155.6	
13:23	9.96	2	6.38	0.43	445.5	2.38	14.4	136.7	
13:28	10.05	2.5	6.37	0.35	446.3	3.12	14.5	124	
13:31	10.05	3.5	6.36	0.31	446.1	4.21	14.5	115.4	
13:37	10.05	4	6.38	0.27	447.4	6.37	14.5	106.9	
13:41	10.05	4	6.38	0.23	446.4	4.76	14.4	98.9	
13:46	10.05	5.5	6.38	0.2	447.5	6.31	14.5	93	
13:50	10.05	5.5	6.38	0.18	448.2	6.33	14.6	90.3	

Sampling Data

Sample ID: HZ-MW-14D-050625
Sample Time Collected: 13:50
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 35
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: No odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

HZ-MW-14S

Submitted Time: May 8, 2025 1:40 PM
Date of Collection: 05, 6, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Nathan S
Ecology Tag #:
Location ID: HZ-MW-14S
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 5
Screen Interval Lower Depth: 15
Total Depth: 14.83
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 8.63
Initial Depth to Water Collection Time: 13:05
Begin Purge: 13:10
Depth to Water After 5 Minutes of Purging: 9.37
Ferrous Iron Field Measurement Result (mg/L): 6.0

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
13:15	9.37	1	6.4	1.81	314.7	10.54	13.1	208.4	
13:20	9.51	2	6.41	1.13	308.5	4.02	13.1	202.5	
13:25	9.63	3	6.41	0.91	304.3	2.97	13	197.7	
13:30	9.73	4	6.42	0.77	301.2	2.18	13	192.4	
13:35	9.82	5	6.42	0.68	298.4	2.17	13	186	

Sampling Data

Sample ID: HZ-MW-14S-050625
Sample Time Collected: 13:40
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 10
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.: 3311
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear no odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

HZ-MW-15D

Submitted Time: May 8, 2025 1:38 PM
Date of Collection: 05, 5, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Ryne A
Ecology Tag #:
Location ID: HZ-MW-15D
Weather: Sunny, Cold (< 70° F)

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 25
Screen Interval Lower Depth: 35
Total Depth: 35.14
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 8.8
Initial Depth to Water Collection Time: 13:39
Begin Purge: 13:43
Depth to Water After 5 Minutes of Purging: 9.79
Ferrous Iron Field Measurement Result (mg/L): 0.5

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
	9.79	1	6.22	0.89	431	1.1	13.9	190.1	
13:50	10.05	1.5	6.22	0.62	428	1.38	13.9	194.8	
13:55	10.43	2	6.19	0.35	426	1.23	13.9	198	
13:58	10.6	3	6.22	0.27	427	1.36	13.9	194.1	
14:01	10.71	3.5	6.23	0.23	427	2.18	13.9	190.6	

Sampling Data

Sample ID: HZ-MW-15D-050525
Sample Time Collected: 14:15
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 30
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.: 071X
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description:

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

HZ-MW-15S

Submitted Time: May 8, 2025 1:38 PM
Date of Collection: 05, 5, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Ryne A
Ecology Tag #:
Location ID: HZ-MW-15S
Weather: Sunny, Cold (< 70° F)

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 5
Screen Interval Lower Depth: 15
Total Depth: 15.17
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 8.43
Initial Depth to Water Collection Time: 14:40
Begin Purge: 15:10
Depth to Water After 5 Minutes of Purging: 8.54
Ferrous Iron Field Measurement Result (mg/L): 4.0

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
14:44	8.54	0.5	6.73	5.15	698	903	13.2	119.3	
14:49	8.81	1.5	6.41	5.36	700	346	13.2	70.3	
14:54	9.05	2.5	6.49	6.3	713	180	13.2	46.9	
14:58	9.21	3.5	6.46	5.6	713	86.9	13.1	26	
15:02	9.3	4.5	6.46	5.08	716	55.1	13.1	16.7	
15:05	9.35	5	6.45	4.75	730	55.3	13.1	12.8	
15:08	9.4	6	6.44	4.41	743	56.6	13.1	9.8	
15:11	9.45	6.5	6.44	4.08	760	56.1	13.2	7.5	
15:14	9.48	7	6.44	3.22	778	36.3	13.2	5.1	

Sampling Data

Sample ID: HZ-MW-15S-050525
Sample Time Collected: 15:30
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 10
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description:

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

HZ-MW-24

Submitted Time: May 8, 2025 1:40 PM
Date of Collection: 05, 7, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Danielle G
Ecology Tag #:
Location ID: HZ-MW-24
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 25
Screen Interval Lower Depth: 35
Total Depth: 32.98
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 4.98
Initial Depth to Water Collection Time: 08:24
Begin Purge: 08:28
Depth to Water After 5 Minutes of Purging:
Ferrous Iron Field Measurement Result (mg/L): 6.0

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
08:30	5.33	0	7.03	4.69	274.3	68	13.2	165.7	Orange particulates in flow, clearing YSI
08:35	5.45	1.5	6.6	2.3	259.7	41.2	13.1	177.6	
08:40	5.45	2.5	6.55	1.22	256.8	59.7	13.1	171.1	Continued plug flow of orange particulates
08:45	5.4	3.5	6.54	0.93	254	71.3	13	161.4	Flow slowed as much as possible
08:50	5.41	4	6.58	1.57	251.8	66.2	13.1	151.6	Persistent turbidity
08:55	5.42	5	6.6	0.93	249.9	69.1	13.1	137	
08:58	5.43	5.5	6.54	0.79	248.8	54.6	13.1	137.4	
09:01	5.43	6	6.54	0.72	248.3	23.6	13.1	135.5	Everything stable except turbidity, will continue monitoring before sampling, see below

Sampling Data

Sample ID: HZ-MW-24-050725
Sample Time Collected: 09:10
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 30
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.: 3311
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing

Sample Description:	Turbidity readings no YSI: 3.83 - suspect that residual turbidity buildup in the YSI biased readings higher, 4.27 last reading before sample Lots of orange particulates

Sample Analyses and Field Quality Control

Field Duplicate: No MS/MSD: No

Groundwater Sample Form

HZ-MW-26

Submitted Time: May 8, 2025 12:39 PM
Date of Collection: 05, 7, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Ryne A
Ecology Tag #:
Location ID: HZ-MW-26
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 25
Screen Interval Lower Depth: 35
Total Depth: 38.7
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 10.41
Initial Depth to Water Collection Time: 12:52
Begin Purge: 12:56
Depth to Water After 5 Minutes of Purging: 10.01
Ferrous Iron Field Measurement Result (mg/L): 0.0

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
13:00	10.05	0	6.72	5.91	293.4	2.23	13.7	82.2	
13:06	11.76	2	6.65	1.35	288.6	1.16	13.5	93.4	
13:10	11.95	3	6.64	1.09	288.4	0.64	13.6	97.2	
13:13	12.07	4	6.65	0.67	288.6	0.98	13.6	99	
13:16	12.1	4.5	6.65	0.71	288.6	0.87	13.6	100	

Sampling Data

Sample ID: HZ-MW-26-050725
Sample Time Collected: 13:45
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 30
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: None

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

HZ-MW-29

Submitted Time: May 8, 2025 12:39 PM
Date of Collection: 05, 7, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Ryne A
Ecology Tag #:
Location ID: HZ-MW-29
Weather: Cold (< 70° F), Partly Cloudy

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 25
Screen Interval Lower Depth: 35
Total Depth: 34.30
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 5.7
Initial Depth to Water Collection Time: 08:25
Begin Purge: 08:30
Depth to Water After 5 Minutes of Purging: 6.14
Ferrous Iron Field Measurement Result (mg/L): 3.5

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
08:31	6.14	0	6.62	1.13	239.6	13	13.6	29.5	
08:36	6.66	2	6.6	0.39	236.8	5.04	13.6	-36.8	
08:40	6.77	3	6.59	0.48	238.2	17.4	13.6	-44.5	
08:45	6.8	4.5	6.58	0.93	238.5	9.06	13.6	-42.3	
08:49	6.68	5.5	6.59	0.89	239	4.84	13.6	-41.6	

Sampling Data

Sample ID: HZ-MW-29-050725
Sample Time Collected: 09:15
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 30
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Weird odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

HZ-MW-31

Submitted Time: May 8, 2025 1:40 PM
Date of Collection: 05, 6, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Nathan S
Ecology Tag #:
Location ID: HZ-MW-31
Weather: Sunny, Cold (< 70° F)

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 15
Screen Interval Lower Depth: 25
Total Depth: 25
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 8.36
Initial Depth to Water Collection Time: 09:30
Begin Purge: 09:35
Depth to Water After 5 Minutes of Purging: 9.12
Ferrous Iron Field Measurement Result (mg/L): 3.0

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
09:40	9.12	1	6.6	2.23	301.5	87.7	13.9	158.8	Cloudy
09:45	9.14	2	6.57	1.08	295.2	14.1	13.9	114.4	
09:50	9.16	3	6.56	0.84	290.8	6.05	14	96	
09:55	9.16	4	6.56	0.7	286.7	6.58	14	84.1	
10:00	9.18	5	6.56	0.64	283.9	7.26	14.1	77.7	
10:05	9.18	6	6.55	0.6	282.3	6.67	14.1	74.2	

Sampling Data

Sample ID: HZ-MW-31-050625
Sample Time Collected: 10:10
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 20
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.: 3311
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear no odor, monument filled with water with sheen

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

HZ-MW-33R

Submitted Time: May 8, 2025 1:38 PM
Date of Collection: 05, 7, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Lydia J
Ecology Tag #:
Location ID: HZ-MW-33R
Weather: Cloudy

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 25
Screen Interval Lower Depth: 35
Total Depth: 35
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water:
Initial Depth to Water Collection Time:
Begin Purge: 09:47
Depth to Water After 5 Minutes of Purging:
Ferrous Iron Field Measurement Result (mg/L): 0.0

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
09:52		1	6.96	5.52	150.2	3.43	14.1	236.7	
09:57		1.5	6.83	3.73	147.6	0.84	14.1	236.7	
10:02		2	6.79	2.71	146.6	0.73	14	236.7	
10:07		2.5	6.77	2.29	146.2	0.87	14	236.7	
10:12		3.5	6.76	1.96	145.8	0.75	14	236.9	
10:17		4.5	6.75	1.75	145.4	0.64	14	237	
10:22		5.5	6.73	1.6	144.8	0.7	14	237.2	

Sampling Data

Sample ID: HZ-MW-33R-050725
Sample Time Collected: 10:25
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 30
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.: 3323
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear, no color

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

HZ-MW-34

Submitted Time: May 8, 2025 1:38 PM
Date of Collection: 05, 7, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Lydia J
Ecology Tag #:
Location ID: HZ-MW-34
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 5
Screen Interval Lower Depth: 25
Total Depth: 22.71
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 5.01
Initial Depth to Water Collection Time: 08:21
Begin Purge: 08:26
Depth to Water After 5 Minutes of Purging:
Ferrous Iron Field Measurement Result (mg/L): 1.5

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
08:36	5.7	1.5	6.48	3.45	294.6	89.6	12.1	238.2	
08:41	5.73	2.5	6.46	2.72	293.3	14.8	12.2	238.3	
08:46	5.63	3	6.45	2.33	292.2	3.73	12.2	237.9	
08:51	5.63	4	6.44	2.03	291.1	6	12.2	237.6	
08:56	5.63	4.5	6.44	1.85	290.2	5.19	12.2	237.1	

Sampling Data

Sample ID: HZ-MW-34-050725
Sample Time Collected: 09:00
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 18
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.: 3323
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear, colorless

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-4R

Submitted Time: May 8, 2025 1:39 PM
Date of Collection: 05, 5, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Lydia J
Ecology Tag #:
Location ID: MW-4R
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 10
Screen Interval Lower Depth: 25
Total Depth: 23.94
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 6.92
Initial Depth to Water Collection Time: 11:25
Begin Purge: 11:29
Depth to Water After 5 Minutes of Purging: 7.3
Ferrous Iron Field Measurement Result (mg/L): 2.5

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
11:33	7.28	1	6.61	2.47	814	0.38	13.2	176	
11:38	7.29	2	6.61	0.97	803	0.3	13.3	141.8	
11:43	7.3	3	6.62	0.78	793	0.23	13.3	125.1	
11:48	7.3	4	6.62	0.65	782	0.18	13.3	108.6	
11:53	7.3	5	6.62	0.57	778	0.2	13.3	96.2	
11:58	7.3	6	6.62	0.53	772	0.62	13.4	89.1	
12:03	7.3	7	6.62	0.5	766	0.5	13.4	82.6	
12:08	7.3	8	6.62	0.48	757	0.89	13.4	77.2	

Sampling Data

Sample ID: MW-4R-050525
Sample Time Collected: 12:12
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 17
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.: 3311
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear, no color, sulfur odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-5R

Submitted Time: May 8, 2025 1:39 PM
Date of Collection: 05, 5, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Lydia J
Ecology Tag #:
Location ID: MW-5R
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 10
Screen Interval Lower Depth: 25
Total Depth: 25.36
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 7.54
Initial Depth to Water Collection Time: 13:26
Begin Purge: 13:29
Depth to Water After 5 Minutes of Purging: 7.8
Ferrous Iron Field Measurement Result (mg/L): 2.0

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
13:33	7.8	0.75	6.51	2.5	543	0.42	13.6	148.3	
13:38	7.91	1.5	6.45	1.19	523	0.1	13.6	146.5	
13:43	7.95	2	6.43	0.84	516	0.09	13.6	142.9	
13:48	7.99	3	6.43	0.7	507	0.14	13.6	140.6	
13:53	8.03	4	6.42	0.62	504	0.09	13.6	139.1	
13:58	8.05	5	6.42	0.56	497.5	0.11	13.6	137.7	
14:03	8.05	6	6.42	0.53	487.9	0.05	13.6	136.6	

Sampling Data

Sample ID: MW-5R-050525
Sample Time Collected: 14:05
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 20
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.: 3311
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: No color, clear

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-6

Submitted Time: May 8, 2025 1:40 PM
Date of Collection: 05, 7, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Danielle G
Ecology Tag #:
Location ID: MW-6
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 10
Screen Interval Lower Depth: 25
Total Depth: 25
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water:
Initial Depth to Water Collection Time:
Begin Purge: 11:13
Depth to Water After 5 Minutes of Purging:
Ferrous Iron Field Measurement Result (mg/L): 3.0

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
11:15		0	6.62	4.85	375.2	4.68	14.1	155.6	No WL, angled piping
11:20		1	6.63	1.69	370.2	3.03	14	110.5	
11:25		2.5	6.66	0.96	368.7	3.48	14	53.4	
11:30		3.5	6.67	0.81	367.7	2.62	14	39.3	
11:35		4.5	6.69	0.7	366.4	3.5	14	26.8	
11:38		5.25	6.69	0.65	365.3	3.84	14	21.4	

Sampling Data

Sample ID: MW-6-050725
Sample Time Collected: 11:45
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 20
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.: 3311
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear, light organic odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-7

Submitted Time: May 8, 2025 1:40 PM
Date of Collection: 05, 7, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Danielle G
Ecology Tag #:
Location ID: MW-7
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 10
Screen Interval Lower Depth: 25
Total Depth: 23.93
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 7.24
Initial Depth to Water Collection Time: 12:53
Begin Purge: 13:06
Depth to Water After 5 Minutes of Purging:
Ferrous Iron Field Measurement Result (mg/L): 2.0

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
13:08	7.64	0	6.6	3.12	362.5	4.24	13.5	142.3	
13:13	7.77	1	6.59	1.66	356	7.6	13.3	137.4	
13:22	8.05	2	6.6	0.86	351.8	11.1	13.3	111.2	Tiny black particulates in Turb jar
13:27	8.14	3.25	6.6	0.76	352	9.71	13.4	101.7	
13:32	8.22	4.25	6.6	0.68	352.2	6.83	13.4	93.5	
13:35	8.27	5	6.6	0.65	352.2	6.48	13.4	90.2	

Sampling Data

Sample ID: MW-7-050725
Sample Time Collected: 13:45
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 18
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.: 3311
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear with small black particulates, strong organic odor

Sample Analyses and Field Quality Control

Field Duplicate: Yes
MS/MSD: No
Duplicate Sample ID: MW-107-050725
Duplicate Date: May 7, 2025
Duplicate Time: 14:00

Groundwater Sample Form

MW-11

Submitted Time: May 8, 2025 1:39 PM
Date of Collection: 05, 7, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Ryne A
Ecology Tag #:
Location ID: MW-11
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 25
Screen Interval Lower Depth: 33
Total Depth: 32.91
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 6.69
Initial Depth to Water Collection Time: 11:03
Begin Purge: 11:09
Depth to Water After 5 Minutes of Purging: 6.85
Ferrous Iron Field Measurement Result (mg/L): 2.0

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
11:10	6.85	0	6.88	3.88	456.5	1.55	14.4	127.3	
11:13	6.9	2	6.93	0.29	474	3.15	14.5	19.1	
11:18	6.95	3	6.96	0.2	471	1.54	14.4	-29.3	
11:24	6.95	4	6.98	0.27	462.1	1.85	14.4	-46.4	
11:29	6.97	6	6.98	0.32	457.4	0.72	14.4	-52.3	
11:32	6.98	7	6.99	0.31	456	0.67	14.4	-56.1	

Sampling Data

Sample ID: MW-11-050725
Sample Time Collected: 11:50
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 30
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: None

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-12

Submitted Time: May 8, 2025 1:38 PM
Date of Collection: 05, 7, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Lydia J
Ecology Tag #:
Location ID: MW-12
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 25
Screen Interval Lower Depth: 33
Total Depth: 32.04
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 7.09
Initial Depth to Water Collection Time: 12:48
Begin Purge: 12:52
Depth to Water After 5 Minutes of Purging: 7.6
Ferrous Iron Field Measurement Result (mg/L): 2.5

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
12:57	7.6	0.5	6.38	6.21	476.3	3.37	13.7	235.2	
13:02	7.68	1	6.38	3.79	477.8	3.51	13.8	233.6	
13:07	7.78	2.5	6.4	2.88	479	2.13	13.8	231.2	
13:12	7.82	4	6.4	2.37	478.4	1.43	13.9	228.6	
13:17	7.85	5	6.4	2.06	487.3	2.39	13.8	226.3	
13:22	7.83	6	6.41	1.84	484.8	2.08	13.9	224.6	

Sampling Data

Sample ID: MW-12-050725
Sample Time Collected: 13:25
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 27
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.: 3323
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description:

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-21R

Submitted Time: May 7, 2025 7:13 AM
Date of Collection: 05, 5, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Danielle G
Ecology Tag #:
Location ID: MW-21R
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 10
Screen Interval Lower Depth: 15
Total Depth: 14.84
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 7.34
Initial Depth to Water Collection Time: 11:29
Begin Purge: 11:40
Depth to Water After 5 Minutes of Purging: 8.22
Ferrous Iron Field Measurement Result (mg/L): 2.0

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
11:45	8.22	0.25	6.75	7.81	574	10.44	13	233.3	
11:50	8.72	2	6.47	5.79	686	3.44	13	235.5	
11:55	8.95	3.25	6.42	3.9	773	3.23	13	235.2	
12:00	9.09	4.25	6.41	2.85	794	1.89	13.1	234.2	
12:05	9.19	5.75	6.4	2.1	809	1.38	13.1	233	
12:08	9.2	6.5	6.4	1.81	814	1.38	13.1	232.3	

Sampling Data

Sample ID: MW-21R-050525
Sample Time Collected: 12:15
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 12
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.: 3323
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear, no odor, some orange particulates

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-23

Submitted Time: May 7, 2025 7:13 AM
Date of Collection: 05, 6, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Ryne A
Ecology Tag #:
Location ID: MW-23
Weather: Sunny, Cold (< 70° F)

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 6
Screen Interval Lower Depth: 16
Total Depth: 17.5
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 10.6
Initial Depth to Water Collection Time: 11:04
Begin Purge: 11:09
Depth to Water After 5 Minutes of Purging: 10.94
Ferrous Iron Field Measurement Result (mg/L): 0.0

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
11:10	10.94	0	5.98	6.91	198.4	4.16	13.8	63.4	
11:15	11	2	5.83	4.51	197.1	3.44	14	102.3	
11:19	11.04	2.5	5.85	4.26	189.3	4.13	13.8	115.4	
11:23	11.03	3	5.85	4.11	188.9	5.55	14.2	122.2	
11:27	11.03	4	5.84	4.17	186	4.68	13.9	129.7	
11:30	11.03	4.5	5.85	4.02	176.8	4.34	13.6	133.7	
11:33	11.03	5	5.88	3.99	177	3.39	13.7	137.2	
11:36	11.03	6	5.86	3.78	175.4	5.31	14.1	139.8	

Sampling Data

Sample ID: MW-23-050625
Sample Time Collected: 11:45
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 12
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: No odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-27

Submitted Time: May 8, 2025 1:38 PM
Date of Collection: 05, 6, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Danielle G
Ecology Tag #:
Location ID: MW-27
Weather: Sunny

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 6
Screen Interval Lower Depth: 16
Total Depth: 15.57
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 9.3
Initial Depth to Water Collection Time: 11:01
Begin Purge: 11:10
Depth to Water After 5 Minutes of Purging:
Ferrous Iron Field Measurement Result (mg/L): 0.5

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
11:13	9.42	0.25	5.97	7.38	166.1	5.4	11.5	232.2	
11:18	9.6	1.5	5.66	4.34	162.6	2.46	11.1	234.3	
11:23	9.75	2.5	5.6	3.22	161	2.18	11.3	235	
11:28	9.85	3.75	5.58	2.56	161.6	0.83	11.3	235.4	
11:33	9.95	5	5.57	2.16	162.3	0.96	11	235	
11:36	10	6	5.56	1.95	163.1	0.78	11.3	234.7	

Sampling Data

Sample ID: MW-27-050625
Sample Time Collected: 11:45
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 12
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.: 3323
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear,no odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-29

Submitted Time: May 8, 2025 1:40 PM
Date of Collection: 05, 7, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Danielle G
Ecology Tag #:
Location ID: MW-29
Weather: Cloudy

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 45
Screen Interval Lower Depth: 55
Total Depth: 55
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 9.99
Initial Depth to Water Collection Time: 09:52
Begin Purge: 09:56
Depth to Water After 5 Minutes of Purging:
Ferrous Iron Field Measurement Result (mg/L): 1.25

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
10:00	10.13	0.25	7.12	4.46	186.1	2.26	13.2	142	
10:05	10.15	1.5	7.27	1.58	190	0.38	13.3	123.9	
10:10	10.16	2.5	7.32	1.16	190.2	0.93	13.3	108.3	
10:15	10.17	3.5	7.35	0.9	190.8	0.51	13.3	83.5	
10:20	10.17	4.25	7.36	0.81	191	0.03	13.4	70.3	
10:23	10.17	4.75	7.37	0.75	191.4	0	13.4	61.7	ORP continues to drop rapidly, everything else stable
10:26	10.18	5.25	7.38	0.71	191	0	13.3	53.9	

Sampling Data

Sample ID: MW-29-050725
Sample Time Collected: 10:30
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 50
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.: 3311
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear with some orange floc, organic smell

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-34

Submitted Time: May 8, 2025 1:39 PM
Date of Collection: 05, 5, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Danielle G, Lydia J
Ecology Tag #:
Location ID: MW-34
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 40
Screen Interval Lower Depth: 50
Total Depth: 48.79
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 6.73
Initial Depth to Water Collection Time: 10:27
Begin Purge: 10:37
Depth to Water After 5 Minutes of Purging: 7
Ferrous Iron Field Measurement Result (mg/L): 2.5

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
10:39	7.01	1	7.35	6.55	311.7	1.78	13.9	121.5	
10:44	7	2	6.55	2.27	336.2	0.41	13.9	176.8	
10:49	7.01	3	6.45	1.24	350	0.75	14	190	
10:54	7	4	6.43	0.95	351	0.99	14	189.1	
10:59	7.01	5	6.42	0.8	350.4	0.22	14	185.2	

Sampling Data

Sample ID: MW-34-050525
Sample Time Collected: 11:05
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 43
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.: 3311
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear, no odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-39

Submitted Time: May 7, 2025 7:13 AM
Date of Collection: 05, 6, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Ryne A
Ecology Tag #:
Location ID: MW-39
Weather: Sunny, Cold (< 70° F)

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 40
Screen Interval Lower Depth: 50
Total Depth: 50.61
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 6.95
Initial Depth to Water Collection Time: 09:28
Begin Purge: 09:33
Depth to Water After 5 Minutes of Purging: 7.34
Ferrous Iron Field Measurement Result (mg/L): 5.0

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
	7.34	0	6.74	1.81	311.5	4.34	14	-8.1	
09:39	7.34	1.5	6.74	0.37	310.6	43.4	13.9	-42.6	
09:44	7.3	2.5	6.75	0.2	310.7	62.2	14.1	-55.2	
09:47	7.31	3	6.76	0.18	310.1	12.2	14.1	-59.1	
09:53	7.31	4	6.76	0.2	309.7	3.68	14.2	-63.3	

Sampling Data

Sample ID: MW-39-050625
Sample Time Collected: 10:15
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 45
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: No odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-40

Submitted Time: May 8, 2025 1:38 PM
Date of Collection: 05, 6, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Danielle G
Ecology Tag #:
Location ID: MW-40
Weather: Sunny

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 15
Screen Interval Lower Depth: 25
Total Depth: 25.2
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 6.98
Initial Depth to Water Collection Time: 09:26
Begin Purge: 09:31
Depth to Water After 5 Minutes of Purging:
Ferrous Iron Field Measurement Result (mg/L): 4.5

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
09:40	7.5	0.5	6.53	3.04	363.9	97	13.3	220.4	
09:45	8.27	1.75	6.54	2.39	358.8	69.4	12.9	217.2	
09:50	8.41	3	6.55	2.01	358.6	42.8	13	213.5	
09:55	8.51	4.5	6.56	1.74	358.9	33.3	13	210.2	
10:00	8.48	6	6.57	1.56	358	32	13.1	207	Will sample for turbidity without YSI

Sampling Data

Sample ID: MW-40-050625
Sample Time Collected: 10:10
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 20
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.: 3323
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Last turbidity reading 29.7; high but stable
Orange, unpleasant odor

Sample Analyses and Field Quality Control

Field Duplicate: Yes
MS/MSD: No
Duplicate Sample ID: MW-140-050625
Duplicate Date: May 6, 2025
Duplicate Time: 11:00

Groundwater Sample Form

MW-42

Submitted Time: May 8, 2025 1:40 PM
Date of Collection: 05, 6, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Nathan S
Ecology Tag #:
Location ID: MW-42
Weather: Sunny, Cold (< 70° F)

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 30
Screen Interval Lower Depth: 45
Total Depth: 47.44
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 10.39
Initial Depth to Water Collection Time: 08:04
Begin Purge: 08:14
Depth to Water After 5 Minutes of Purging: 10.62
Ferrous Iron Field Measurement Result (mg/L): 5.0

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
08:20	10.63	1	6.99	2.19	399.1	56.8	13.1	164.8	Orange
08:25	10.63	3	6.81	1.29	368.1	11.2	12.9	179.3	Clearing up
08:30	10.62	4	6.75	1.03	343.2	10.5	12.9	181.2	
08:35	10.63	5	6.73	0.87	328.9	11.2	12.9	179.9	
08:40	10.62	6	6.71	0.77	316.7	10.07	12.9	177	
08:45	10.62	7	6.7	0.72	311.7	10.34	12.9	173.9	

Sampling Data

Sample ID: MW-42-050625
Sample Time Collected: 08:50
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 38
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.: 3311
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear no odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-43R

Submitted Time: May 8, 2025 1:38 PM
Date of Collection: 05, 6, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Danielle G
Ecology Tag #:
Location ID: MW-43R
Weather: Sunny

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 10
Screen Interval Lower Depth: 25
Total Depth: 25.5
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 11.4
Initial Depth to Water Collection Time: 08:00
Begin Purge: 08:10
Depth to Water After 5 Minutes of Purging:
Ferrous Iron Field Measurement Result (mg/L): 5.5

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
08:12	11.46	0	6.75	6.22	273.7	16.9	12.7	228.4	
08:17	11.47	1.5	6.66	3.38	269	14	12.8	204.3	
08:22	11.48	2.5	6.64	2.46	265.8	9.52	12.9	187.4	
08:27	11.48	3.5	6.62	1.96	262.4	9.49	13	180.3	
08:32	11.49	5	6.6	1.68	258.4	8.98	13	177.2	
08:37	11.5	6	6.59	1.55	257	7.55	13	176.6	

Sampling Data

Sample ID: MW-43R-050625
Sample Time Collected: 08:40
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 20
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.: 3323
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear, black particulates, organic odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-44R

Submitted Time: May 7, 2025 7:13 AM
Date of Collection: 05, 6, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Ryne A
Ecology Tag #:
Location ID: MW-44R
Weather: Sunny, Cold (< 70° F)

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 20
Screen Interval Lower Depth: 30
Total Depth: 30
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 7.03
Initial Depth to Water Collection Time: 08:08
Begin Purge: 08:13
Depth to Water After 5 Minutes of Purging: 7.12
Ferrous Iron Field Measurement Result (mg/L): 5.5

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
	7.12	1	6.62	0.86	359	31.4	13.5	-59.4	
08:20	7.13	2	6.6	0.47	357	38.3	13.5	-64.8	
08:24	7.13	2.5	6.6	0.38	356.9	17.4	13.5	-67.1	
08:31	7.12	3.5	6.59	0.26	357	7.58	13.6	-69.8	
08:35	7.12	5	6.59	0.21	357.8	9.63	13.6	-71.8	

Sampling Data

Sample ID: MW-44R-050625
Sample Time Collected: 09:00
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 25
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: No odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-45R

Submitted Time: May 8, 2025 1:39 PM
Date of Collection: 05, 5, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Lydia J
Ecology Tag #:
Location ID: MW-45R
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 7
Screen Interval Lower Depth: 17
Total Depth: 14.94
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 7.12
Initial Depth to Water Collection Time: 14:29
Begin Purge: 14:36
Depth to Water After 5 Minutes of Purging: 7.68
Ferrous Iron Field Measurement Result (mg/L): 2.0

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
14:39	7.55	1	6.79	2.56	657	59.6	13.5	141.4	
14:44	7.81	1.5	6.68	1.18	645	37.7	13.5	137.3	
14:49	7.96	2	6.69	0.88	640	27.8	13.5	125.3	
14:54	8.18	3	6.68	0.72	639	23.2	13.5	110.9	
14:59	8.38	3.5	6.7	0.66	639	16.9	13.5	99.6	
15:04	8.56	4	6.76	0.59	641	23.5	13.5	88.8	

Sampling Data

Sample ID: MW-45R-050525
Sample Time Collected: 15:10
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 12
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.: 3311
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Pale yellow color, clear, faint sulfur odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

S-MW-1

Submitted Time: May 8, 2025 1:40 PM
Date of Collection: 05, 6, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Nathan S
Ecology Tag #:
Location ID: S-MW-1
Weather: Sunny, Cold (< 70° F)

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 5.5
Screen Interval Lower Depth: 15.5
Total Depth: 15.5
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 7.66
Initial Depth to Water Collection Time: 11:05
Begin Purge: 11:05
Depth to Water After 5 Minutes of Purging: 7.78
Ferrous Iron Field Measurement Result (mg/L): 0.0

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
11:10	7.78	1	6.8	6.5	272.3	9,999	12	137.5	Turb 605 au
11:15	7.94	1.5	6.6	4.75	264.7	9,999	11.4	148.2	Turb 787 au
11:20	8.13	2	6.58	4.25	263.5	9,999	11.2	150.7	Turb 820 au
11:25	8.24	2.5	6.57	4.12	266.2	9,999	11.6	151.1	Turb 724 au
11:30	8.2	3	6.6	4.12	268.8	62	11.6	151.3	Clearing up
11:35	8.41	3.5	6.66	4.43	270.2	70.2	11.3	149.8	
11:40	8.45	4.5	6.63	4.22	271.3	56.3	11.4	151.4	
11:45	8.53	5.5	6.58	4.05	266.8	48.1	11.5	154.8	

Sampling Data

Sample ID: S-MW-1-050625
Sample Time Collected: 11:50
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 10
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.: 3311
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: 4-6 inch layer of grey claylike material completely obstructing casing at 3 ft. Used surge block to punch through. Odor is chemical like and RA suspects that damage in casing has led to hydrated bentonite seeping in.

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

S-MW-2RR

Submitted Time: May 2, 2025 2:29 PM
Date of Collection: 05, 2, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Danielle G
Ecology Tag #:
Location ID: S-MW-2RR
Weather: Partly Cloudy

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 5
Screen Interval Lower Depth: 15
Total Depth: 17.64
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 5.4
Initial Depth to Water Collection Time: 13:44
Begin Purge: 13:46
Depth to Water After 5 Minutes of Purging:
Ferrous Iron Field Measurement Result (mg/L):

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
13:46	5.28	0	6.78	0.5	800	2.2	11	-120	
13:50	5.3	1	6.8	0.4	850	2.3	11.3	-125	
13:54	5.32	2	6.8	0.3	830	2.2	11.4	-130	

Sampling Data

Sample ID: S-MW-2RR-050225
Sample Time Collected: 14:28
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC):
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description:

Sample Analyses and Field Quality Control

Field Duplicate: Yes
MS/MSD: No
Duplicate Sample ID: 345
Duplicate Date: May 2, 2025
Duplicate Time: 14:29

Groundwater Sample Form

S-MW-3RRR

Submitted Time: May 8, 2025 12:39 PM
Date of Collection: 05, 7, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Ryne A
Ecology Tag #:
Location ID: S-MW-3RRR
Weather: Cloudy, Cold (< 70° F)

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 24
Screen Interval Lower Depth: 39
Total Depth: 39
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 10.9
Initial Depth to Water Collection Time: 09:37
Begin Purge: 09:40
Depth to Water After 5 Minutes of Purging: 10.16
Ferrous Iron Field Measurement Result (mg/L): 0.5

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
09:47	10.16	1	5.93	2	184	14.7	13.6	85.1	
09:52	11.9	2	5.93	0.56	183.4	9.54	13.6	96	
09:56	12.1	3	5.93	0.39	182.9	7.21	13.5	100.9	
10:02	12.21	4	6.08	0.29	210.8	4.31	13.6	100.3	
10:05	12.25	5	6.08	0.25	213.5	3.2	13.6	101	
10:11	12.3	6	6.08	0.25	212.4	4.36	13.6	102.5	

Sampling Data

Sample ID: S-MW-3RRR-050725
Sample Time Collected: 10:30
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 25
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: No odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

S-MW-5R

Submitted Time: May 7, 2025 7:13 AM
Date of Collection: 05, 5, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Danielle G
Ecology Tag #:
Location ID: S-MW-5R
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 15
Screen Interval Lower Depth: 25
Total Depth: 25.13
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 7.85
Initial Depth to Water Collection Time: 13:28
Begin Purge: 13:33
Depth to Water After 5 Minutes of Purging:
Ferrous Iron Field Measurement Result (mg/L): 0.0

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
13:35	8.38	0	7.07	7.21	246.1	0.68	13.6	232.6	
13:40	8.8	1.5	6.66	3.07	228.4	0.76	13.6	233.3	
13:45	8.9	2.5	6.6	2.45	237.1	0.59	13.5	233.3	
13:50	8.94	3.5	6.55	2.04	245	0.68	13.5	233.2	
13:55	9	4.5	6.53	1.72	248	0.57	13.5	233	
14:00	9.03	5.5	6.51	1.52	247.6	0.64	13.5	232.9	

Sampling Data

Sample ID: S-MW-5R-050525
Sample Time Collected: 14:05
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 20
Water Quality Instrument: YSI ProDSS, Turbidity Meter
YSI Serial No.: 3323
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear, no odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

HZ-MW-1

Submitted Time: September 25, 2025 2:49 PM
Date of Collection: 09, 24, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Nora K
Ecology Tag #:
Location ID: HZ-MW-1
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 5
Screen Interval Lower Depth: 15
Total Depth: 16.79
Casing Diameter: 1

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 9.59
Initial Depth to Water Collection Time: 09:48
Begin Purge: 10:00
Depth to Water After 5 Minutes of Purging: 14.42
Ferrous Iron Field Measurement Result (mg/L): 6.0mg/L

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
10:05	14.42	1	6.54	1.32	1,110	37.5	15.7	-59.2	YSI malfunction, not great parameters, pure dry at 1007
10:35	10.43	1	6.57	1.37	1,120	30.2	16.6	-59.1	Restarted purging after well recharged
10:40	15.45	2	6.54	1.43	1,110	9.62	15.5	-60.5	Purged dry after readings

Sampling Data

Sample ID: HZ-MW-1-092425
Sample Time Collected: 11:15
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 16
Water Quality Instrument: YSI ProDSS, turb_meter, Turbidity Meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear, no odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

HZ-MW-14D

Submitted Time: September 25, 2025 2:50 PM
Date of Collection: 09, 23, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Ryne A
Ecology Tag #:
Location ID: HZ-MW-14D
Weather: Cold (< 70° F), Sunny, Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 30
Screen Interval Lower Depth: 40
Total Depth: 40.99
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 9.62
Initial Depth to Water Collection Time: 13:50
Begin Purge: 13:54
Depth to Water After 5 Minutes of Purging: 9.95
Ferrous Iron Field Measurement Result (mg/L): 1.0

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
	9.95	0	6.4	0.9	593	2.04	15.8	45.9	
13:59	11.03	1	6.44	0.13	594	0.64	15.4	34.5	
14:05	12.04	3	6.44	0.1	592	1.95	15.3	28.9	
14:09	12.5	4	6.44	0.08	589	4.92	15.3	26.7	
14:15	12.12	5.5	6.44	0.11	585	5.69	15.7	25.9	

Sampling Data

Sample ID: HZ-MW-14D-092325
Sample Time Collected: 14:20
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 35
Water Quality Instrument: YSI ProDSS, turb_meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description:

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

HZ-MW-14S

Submitted Time: September 25, 2025 2:49 PM
Date of Collection: 09, 23, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Nora K
Ecology Tag #:
Location ID: HZ-MW-14S
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 5
Screen Interval Lower Depth: 15
Total Depth: 14.83
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 9.76
Initial Depth to Water Collection Time: 13:38
Begin Purge: 13:45
Depth to Water After 5 Minutes of Purging: 9.98
Ferrous Iron Field Measurement Result (mg/L): 4.5mg/L

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
13:50	9.98	1	6.42	0.82	570	12.64	15.9	-5.9	
13:55	10.25	2	6.44	0.67	560	7.57	16	-11.7	
14:00	10.79	3	6.44	0.73	550	15.67	16.1	-14.7	
14:05	11	4	6.44	0.58	550	17.71	16.1	-16.4	
14:10	11.22	5	6.44	0.44	540	10.06	16	-18.2	

Sampling Data

Sample ID: HZ-MW-14S-092325
Sample Time Collected: 14:15
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 12.5
Water Quality Instrument: YSI ProDSS, turb_meter, Turbidity Meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Slight carbstrate odor, clear

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

HZ-MW-15D

Submitted Time: September 22, 2025 5:46 PM
Date of Collection: 09, 22, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Danielle G
Ecology Tag #:
Location ID: HZ-MW-15D
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 25
Screen Interval Lower Depth: 35
Total Depth: 35.14
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 9.74
Initial Depth to Water Collection Time: 12:53
Begin Purge: 12:58
Depth to Water After 5 Minutes of Purging:
Ferrous Iron Field Measurement Result (mg/L): Ferrous iron: 5.0 mg/L

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
13:00	10.23	0.25	6.35	1.06	641	2.53	15.1	-104.7	
13:05	10.59	1.5	6.34	0.31	636	2.26	15.3	-116.8	
13:10	10.77	2.5	6.33	0.21	629	2.24	15.2	-120	
13:15	10.82	3.25	6.31	0.17	648	2.52	15.1	-123	
13:20	10.88	4.25	6.31	0.15	657	2.98	15	-125.9	

Sampling Data

Sample ID: HZ-MW-15D-092225
Sample Time Collected: 13:25
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 30
Water Quality Instrument: YSI ProDSS, turb_meter, Turbidity Meter
YSI Serial No.: Rental
Filter: Filtered Some/Metals, Unfiltered
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Strong carbstrate odor, clear

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

HZ-MW-15S

Submitted Time: September 22, 2025 5:46 PM
Date of Collection: 09, 22, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Ryne A
Ecology Tag #:
Location ID: HZ-MW-15S
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 5
Screen Interval Lower Depth: 15
Total Depth: 15.17
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 9.68
Initial Depth to Water Collection Time: 12:54
Begin Purge: 13:00
Depth to Water After 5 Minutes of Purging: 9.88
Ferrous Iron Field Measurement Result (mg/L): 1.5

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
13:04	9.88	0	6.47	0.29	1,098	103	17.2	-222.7	
13:08	10.06	2	6.46	0.26	1,109	74.5	17.2	-225	
13:12	10.3	3	6.45	0.18	1,131	33.5	17.1	-225.9	
13:18	10.53	5	6.45	0.22	1,137	28.3	17	-221.4	
13:23	10.63	6.5	6.47	0.24	1,163	40.8	16.9	-215.2	
13:26	10.68	7.5	6.47	0.23	1,182	80	16.9	-211.6	
13:30	10.66	8	6.48	0.16	1,190	28.3	16.8	-216	
13:33	10.67	9	6.48	0.15	1,192	9.42	16.8	-219.2	

Sampling Data

Sample ID: HZ-MW-15S-092225
Sample Time Collected: 13:30
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 10
Water Quality Instrument: YSI ProDSS, turb_meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description:

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

HZ-MW-24

Submitted Time: September 25, 2025 2:50 PM
Date of Collection: 09, 24, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Ryne A
Ecology Tag #:
Location ID: HZ-MW-24
Weather: Indoors, Cold (< 70° F)

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 25
Screen Interval Lower Depth: 35
Total Depth: 32.98
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 5.68
Initial Depth to Water Collection Time: 08:43
Begin Purge: 08:49
Depth to Water After 5 Minutes of Purging: 5.9
Ferrous Iron Field Measurement Result (mg/L): 3

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
08:50	5.9	0	6.6	1.2	409	4.47	15.3	-94.9	
08:55	6.25	2	6.56	0.29	414	1.57	14.8	-100	
09:00	6.36	3	6.57	0.14	410	1.81	14.6	-102.7	
09:06	6.41	5	6.57	0.11	404	1.31	14.6	-104.8	
09:12	6.4	6	6.57	0.1	400	1.11	14.7	-106.6	

Sampling Data

Sample ID: HZ-MW-24-092425
Sample Time Collected: 09:20
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 30
Water Quality Instrument: YSI ProDSS, turb_meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description:

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

HZ-MW-26

Submitted Time: September 24, 2025 3:54 PM
Date of Collection: 09, 24, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Danielle G
Ecology Tag #:
Location ID: HZ-MW-26
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 25
Screen Interval Lower Depth: 35
Total Depth: 38.7
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 11.12
Initial Depth to Water Collection Time: 08:43
Begin Purge: 08:48
Depth to Water After 5 Minutes of Purging:
Ferrous Iron Field Measurement Result (mg/L): Ferrous iron: 0 mg/L

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
08:50	11.84	0.25	6.6	0.77	343.4	0.14	14.3	122.6	
08:55	12.59	2	6.55	0.33	341.4	0	14.2	133.9	Flow reduced
09:00	12.7	3.25	6.54	0.23	341.3	0.02	14.2	139.8	
09:05	12.72	4.5	6.55	0.19	340.8	0	14.2	142.7	
09:10	12.79	6	6.55	0.16	340.6	0	14.2	145.1	

Sampling Data

Sample ID: HZ-MW-26-092425
Sample Time Collected: 09:15
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 30
Water Quality Instrument: YSI ProDSS, turb_meter, Turbidity Meter
YSI Serial No.: Rental
Filter: Filtered Some/Metals, Unfiltered
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear, no odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

HZ-MW-29

Submitted Time: September 25, 2025 2:50 PM
Date of Collection: 09, 24, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Ryne A
Ecology Tag #:
Location ID: HZ-MW-29
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 25
Screen Interval Lower Depth: 35
Total Depth: 34.3
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 6.38
Initial Depth to Water Collection Time: 13:03
Begin Purge: 13:10
Depth to Water After 5 Minutes of Purging: 6.9
Ferrous Iron Field Measurement Result (mg/L): 5

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
13:10	6.9	0	6.72	0.54	281.2	1.9	15.2	89	
13:14	7.31	2	6.7	0.19	274	1.01	15	-95.8	
13:20	7.38	3	6.69	0.12	270	1.02	14.9	-102.2	
13:24	7.5	4	6.69	0.09	273	1.68	14.8	-105	
13:30	7.55	6	6.69	0.08	276	2.69	14.8	-106.3	

Sampling Data

Sample ID: HZ-MW-29-092425
Sample Time Collected: 13:40
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 30
Water Quality Instrument: YSI ProDSS, turb_meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description:

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

HZ-MW-31

Submitted Time: September 24, 2025 3:54 PM
Date of Collection: 09, 23, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Danielle G
Ecology Tag #:
Location ID: HZ-MW-31
Weather: Sunny

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 15
Screen Interval Lower Depth: 25
Total Depth: 25
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 8.56
Initial Depth to Water Collection Time: 09:17
Begin Purge: 09:21
Depth to Water After 5 Minutes of Purging:
Ferrous Iron Field Measurement Result (mg/L): Ferrous iron: 4.0 mg/L

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
09:23	9.02	0	6.53	0.84	401.7	12.31	16.1	-107.1	
09:28	9.16	1	6.53	0.38	398.1	12.87	16.4	-102.1	
09:33	9.31	2.25	6.52	0.21	394.1	12.41	16.2	-103.2	
09:38	9.37	3	6.52	0.17	391.9	9.84	16.2	-104.1	
09:43	9.39	4	6.52	0.15	391	8.01	16.2	-104.5	

Sampling Data

Sample ID: HZ-MW-31-092325
Sample Time Collected: 09:50
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 20
Water Quality Instrument: YSI ProDSS, turb_meter, Turbidity Meter
YSI Serial No.: Rental
Filter: Filtered Some/Metals, Unfiltered
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Small black particulates, orange tint

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

HZ-MW-33R

Submitted Time: September 24, 2025 3:54 PM
Date of Collection: 09, 23, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Danielle G
Ecology Tag #:
Location ID: HZ-MW-33R
Weather: Hot (>70 ° F), Sunny

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 25
Screen Interval Lower Depth: 35
Total Depth: 35
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water:
Initial Depth to Water Collection Time:
Begin Purge: 12:52
Depth to Water After 5 Minutes of Purging:
Ferrous Iron Field Measurement Result (mg/L): Ferrous iron: 0 mg/L

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
12:55		0.5	6.7	0.93	189.1	0.21	16.4	133.7	No DTW, angled couplings in well
13:00		2	6.73	0.28	188.4	0	16.1	124.6	
13:05		3	6.74	0.2	188.7	0	16	120.4	
13:10		4	6.73	0.15	186.3	0	16	118.3	
13:15		5.5	6.71	0.13	183.6	0	15.8	118.7	

Sampling Data

Sample ID: HZ-MW-33R-092325
Sample Time Collected: 13:20
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 30
Water Quality Instrument: YSI ProDSS, turb_meter, Turbidity Meter
YSI Serial No.: Rental
Filter: Filtered Some/Metals, Unfiltered
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear, no odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

HZ-MW-34

Submitted Time: September 25, 2025 2:49 PM
Date of Collection: 09, 24, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Nora K
Ecology Tag #:
Location ID: HZ-MW-34
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 5
Screen Interval Lower Depth: 25
Total Depth: 22.71
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 5.62
Initial Depth to Water Collection Time: 08:38
Begin Purge: 08:46
Depth to Water After 5 Minutes of Purging: 6.33
Ferrous Iron Field Measurement Result (mg/L): 1.5mg/L

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
08:51	6.33	1	6.43	0.6	323	10.05	15.2	-7.9	
08:55	6.52	2	6.41	0.36	321	3.99	15.1	-5.5	
09:00	6.59	3	6.44	0.54	323	3.29	15	-7.5	
09:05	6.69	4	6.44	0.33	322	2.05	14.8	-12.1	
09:10	6.72	5	6.44	0.18	322	1.22	14.8	-16.7	

Sampling Data

Sample ID: HZ-MW-34-092425
Sample Time Collected: 09:15
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 15
Water Quality Instrument: YSI ProDSS, turb_meter, Turbidity Meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear, moderate carbstrate odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-11

Submitted Time: September 22, 2025 5:46 PM
Date of Collection: 09, 22, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Nora K
Ecology Tag #:
Location ID: MW-11
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 25
Screen Interval Lower Depth: 33
Total Depth: 32.91
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 7.39
Initial Depth to Water Collection Time: 11:50
Begin Purge: 11:56
Depth to Water After 5 Minutes of Purging: 7.59
Ferrous Iron Field Measurement Result (mg/L): 2.5mg/L

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
12:00	7.59	1	6.85	0.17	760	0.4	15.6	-104.2	
12:05	7.62	2	6.88	0.11	750	0.22	15.5	-119.9	
12:10	7.62	3	6.88	0.09	750	0.21	15.5	-127.9	
12:15	7.62	5	6.88	0.18	740	0.54	15.4	-134.6	
12:20	7.63	6.5	6.9	0.26	740	0.37	15.4	-139.9	
12:25	7.63	7.5	6.91	0.18	740	0.51	15.4	-143.2	

Sampling Data

Sample ID: MW-11-092225
Sample Time Collected: 12:30
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 29
Water Quality Instrument: YSI ProDSS, turb_meter, Turbidity Meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear no odor no sheen

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-12

Submitted Time: September 25, 2025 2:50 PM
Date of Collection: 09, 24, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Ryne A
Ecology Tag #:
Location ID: MW-12
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 25
Screen Interval Lower Depth: 33
Total Depth: 32.04
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 7.81
Initial Depth to Water Collection Time: 11:01
Begin Purge: 11:09
Depth to Water After 5 Minutes of Purging: 8.18
Ferrous Iron Field Measurement Result (mg/L): 5

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
11:10	8.18	0	6.52	0.38	746	1.83	15.6	-72	
11:14	8.53	1	6.51	0.16	747	1.9	15.3	-86.9	
11:19	8.65	2	6.5	0.1	758	1.41	15.2	-95.4	
11:23	8.7	4	6.5	0.08	759	1.67	15.1	-102.2	
11:28	8.75	5	6.5	0.07	763	2.01	15.1	-107	
11:37	8.75	6.5	6.5	0.1	762	3.08	15.1	-110	

Sampling Data

Sample ID: MW-12-092425
Sample Time Collected: 11:45
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 30
Water Quality Instrument: YSI ProDSS, turb_meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description:

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-20R

Submitted Time: September 22, 2025 5:46 PM
Date of Collection: 09, 22, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Nora K
Ecology Tag #:
Location ID: MW-20R
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 25
Screen Interval Lower Depth: 30
Total Depth: 28.83
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 7.81
Initial Depth to Water Collection Time: 14:09
Begin Purge: 14:15
Depth to Water After 5 Minutes of Purging: 8.06
Ferrous Iron Field Measurement Result (mg/L): 4.0mg/L

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
14:20	8.06	1	6.8	0.36	342	2.24	15.6	-139.6	
14:25	8.08	2	6.83	0.17	342	0.7	15.5	-152.3	
14:30	8.1	3	6.84	0.09	343	0.04	15.4	-163.1	
14:35	8.12	4	6.85	0.07	344	0.08	15.4	-167.1	
14:40	8.12	5	6.85	0.06	341	0.42	15.4	-170.7	

Sampling Data

Sample ID: MW-20R-092225
Sample Time Collected: 14:45
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 27.5
Water Quality Instrument: YSI ProDSS, turb_meter, Turbidity Meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description:

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-21R

Submitted Time: September 22, 2025 5:46 PM
Date of Collection: 09, 22, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Ryne A
Ecology Tag #:
Location ID: MW-21R
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 10
Screen Interval Lower Depth: 15
Total Depth: 14.84
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 8.6
Initial Depth to Water Collection Time: 10:27
Begin Purge: 10:37
Depth to Water After 5 Minutes of Purging: 9.15
Ferrous Iron Field Measurement Result (mg/L): 1.5

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
10:40	9.15	0	6.63	4.94	452	1.96	17	-189.7	
10:43	9.8	2	6.62	5.29	452	1.21	16.9	-190.3	
10:47	9.94	2.5	6.6	5.28	453	1.34	16.8	-189.5	
10:51	10.08	3	6.59	5.01	458	1.23	16.8	-189	
10:54	10.15	4	6.57	0.22	461	1.62	16.7	-190.3	Shook ysi and do dropped must have been bubble
10:57	10.17	5	6.56	0.15	464	2.03	16.7	-192.8	
11:01	10.25	6	6.54	0.12	473	1.68	16.7	-195.2	

Sampling Data

Sample ID: MW-21R-092225
Sample Time Collected: 11:10
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 12.5
Water Quality Instrument: YSI ProDSS, turb_meter
YSI Serial No.: Rental
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description:

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-23

Submitted Time: September 24, 2025 3:54 PM
Date of Collection: 09, 23, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Danielle G
Ecology Tag #:
Location ID: MW-23
Weather: Sunny

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 6
Screen Interval Lower Depth: 16
Total Depth: 17.5
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 11.41
Initial Depth to Water Collection Time: 10:28
Begin Purge: 10:31
Depth to Water After 5 Minutes of Purging:
Ferrous Iron Field Measurement Result (mg/L): Ferrous iron:0 mg/L

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
10:33	11.7	0	5.89	5.25	135	1.14	16.3	138.4	
10:38	11.84	1	5.84	4.02	133	0.24	16	171.9	
10:43	11.87	2	5.83	3.53	134.5	0	15.9	190.5	
10:48	11.89	3	5.82	3.24	137.8	0	15.9	199.3	
10:53	11.9	4	5.81	3.15	140.1	0	15.8	207.4	
10:58	11.9	5	5.81	2.97	141.8	0	15.8	208.5	

Sampling Data

Sample ID: MW-23-092325
Sample Time Collected: 11:00
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 14
Water Quality Instrument: YSI ProDSS, turb_meter, Turbidity Meter
YSI Serial No.: Rental
Filter: Filtered Some/Metals, Unfiltered
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear, no odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-27

Submitted Time: September 25, 2025 2:49 PM
Date of Collection: 09, 23, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Nora K
Ecology Tag #:
Location ID: MW-27
Weather: Cold (< 70° F)

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 6
Screen Interval Lower Depth: 16
Total Depth: 15.57
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 10.28
Initial Depth to Water Collection Time: 10:25
Begin Purge: 10:30
Depth to Water After 5 Minutes of Purging: 10.62
Ferrous Iron Field Measurement Result (mg/L): 1.0mg/L

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
10:35	10.62	2	5.51	4.45	242	2.7	15.9	119.5	
10:40	10.78	4	5.55	1.44	247	0.77	15.9	117.4	
10:45	10.95	5	5.65	0.76	258	0.67	15.8	95	
10:50	11.05	8	5.62	1.05	261	1.21	15.8	89.2	
10:55	11.15	10	5.68	0.82	269	1.18	15.8	80.2	

Sampling Data

Sample ID: MW-27-092325
Sample Time Collected: 11:00
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 13
Water Quality Instrument: YSI ProDSS, turb_meter, Turbidity Meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear, slight carbstrate odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-29

Submitted Time: September 25, 2025 2:49 PM
Date of Collection: 09, 23, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Nora K
Ecology Tag #:
Location ID: MW-29
Weather: Cold (< 70° F)

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 45
Screen Interval Lower Depth: 55
Total Depth: 55
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 10.79
Initial Depth to Water Collection Time: 12:12
Begin Purge: 12:20
Depth to Water After 5 Minutes of Purging: 11.03
Ferrous Iron Field Measurement Result (mg/L): 1.5mg/L

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
12:25	11.03	1	7.5	0.2	230	2.67	14.5	-133.6	
12:30	10.99	2	7.52	0.15	230	2.86	14.6	-142.3	
12:35	11	3.5	7.52	0.14	229	2.42	14.5	-147.9	
12:40	11.07	5	7.52	0.11	229	4.06	14.5	-151.2	
12:45	11.02	6	7.52	0.1	227	3.34	14.4	-152.8	

Sampling Data

Sample ID: MW-29-092325
Sample Time Collected: 12:50
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 50
Water Quality Instrument: YSI ProDSS, turb_meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Slight carbstrate odor, clear

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-34

Submitted Time: September 22, 2025 5:46 PM
Date of Collection: 09, 22, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Danielle G
Ecology Tag #:
Location ID: MW-34
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 40
Screen Interval Lower Depth: 50
Total Depth: 48.79
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 7.48
Initial Depth to Water Collection Time: 11:52
Begin Purge: 11:57
Depth to Water After 5 Minutes of Purging:
Ferrous Iron Field Measurement Result (mg/L): Ferrous iron: 2.0 mg/L

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
12:00	7.78	0.25	6.36	0.93	363.3	150	15.8	14.5	Orange floc in stream, pulled tubing up, emptied flow thru cell
12:05	7.88	2	6.34	0.38	351.4	24.8	15.6	18.3	
12:10	7.85	3	6.35	0.29	357.2	10.23	15.7	14.2	
12:15	7.88	4	6.36	0.23	359.5	11.34	15.6	11.3	
12:20	7.85	5.5	6.37	0.18	360.2	8.42	15.6	9.7	

Sampling Data

Sample ID: MW-34-092225
Sample Time Collected: 12:25
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 45
Water Quality Instrument: YSI ProDSS, turb_meter, Turbidity Meter
YSI Serial No.: Rental
Filter: Filtered Some/Metals, Unfiltered
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Orange floc, no odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-39

Submitted Time: September 25, 2025 2:49 PM
Date of Collection: 09, 23, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Nora K
Ecology Tag #:
Location ID: MW-39
Weather: Cold (< 70° F)

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 40
Screen Interval Lower Depth: 50
Total Depth: 50.61
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 7.61
Initial Depth to Water Collection Time: 09:21
Begin Purge: 09:21
Depth to Water After 5 Minutes of Purging: 8.43
Ferrous Iron Field Measurement Result (mg/L): 5.0mg/L

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
09:30	8.52	2	6.69	0.88	408	15.14	15.7	-157.5	
09:35	8.57	4	6.68	0.31	399	17.81	15.6	-168.4	
09:40	8.58	5	6.69	0.17	396	12.41	15.4	-173.2	
09:45	8.62	7	6.69	0.11	399	14.25	15.3	-177.3	
09:50	8.63	8.5	6.68	0.11	400	13.71	15.2	-179.4	

Sampling Data

Sample ID: MW-39-092325
Sample Time Collected: 09:55
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 47.5
Water Quality Instrument: YSI ProDSS, turb_meter, Turbidity Meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear, slight carbstrate odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-40

Submitted Time: September 25, 2025 2:50 PM
Date of Collection: 09, 23, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Ryne A
Ecology Tag #:
Location ID: MW-40
Weather: Cold (< 70° F), Sunny

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 15
Screen Interval Lower Depth: 25
Total Depth: 25.2
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 7.58
Initial Depth to Water Collection Time: 09:18
Begin Purge: 09:23
Depth to Water After 5 Minutes of Purging: 7.95
Ferrous Iron Field Measurement Result (mg/L):

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
09:25	7.95	0	6.7	0.72	447	19.67	16.4	-108.9	
09:29	8.47	1	6.67	0.33	451	13.3	16.4	-117.8	
09:34	8.71	2	6.67	0.23	450	9.06	16.2	-125.3	
09:39	8.83	3.5	6.67	0.19	450	7.1	16.1	-131.8	
09:44	8.93	5	6.68	0.19	450	5.78	16	-138.1	
09:47	8.95	6	6.67	0.18	448	5.61	16	-139.6	

Sampling Data

Sample ID: MW-40-092325
Sample Time Collected: 09:50
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 20
Water Quality Instrument: YSI ProDSS, turb_meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description:

Sample Analyses and Field Quality Control

Field Duplicate: Yes
MS/MSD: No
Duplicate Sample ID: MW-140-092325
Duplicate Date: September 23, 2025
Duplicate Time: 10:00

Groundwater Sample Form

MW-42

Submitted Time: September 25, 2025 2:49 PM
Date of Collection: 09, 23, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Nora K
Ecology Tag #:
Location ID: MW-42
Weather: Cold (< 70° F)

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 30
Screen Interval Lower Depth: 45
Total Depth: 47.44
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 12.03
Initial Depth to Water Collection Time: 08:04
Begin Purge: 08:10
Depth to Water After 5 Minutes of Purging: 12.18
Ferrous Iron Field Measurement Result (mg/L): 6.5mg/L

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
08:15	12.18	1.5	6.61	0.31	298	4.55	15.2	-117.9	
08:20	12.19	3	6.62	0.92	292	5.79	15.1	-123.7	
08:25	12.2	4.5	6.61	0.91	287	2.71	15.1	-127	
08:30	12.2	6	6.62	0.6	289	3.59	15.1	-128.8	
08:35	12.21	7.5	6.61	0.35	288	3.94	15.1	-130.8	

Sampling Data

Sample ID: MW-42-092325
Sample Time Collected: 08:40
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 38
Water Quality Instrument: YSI ProDSS, turb_meter, Turbidity Meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Black particles, slight carbstrate odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-43R

Submitted Time: September 24, 2025 3:54 PM
Date of Collection: 09, 23, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Danielle G
Ecology Tag #:
Location ID: MW-43R
Weather: Sunny, Cold (< 70° F)

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 10
Screen Interval Lower Depth: 25
Total Depth: 25.5
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 10.91
Initial Depth to Water Collection Time: 08:06
Begin Purge: 08:10
Depth to Water After 5 Minutes of Purging: 11.05
Ferrous Iron Field Measurement Result (mg/L): Ferrous iron: 1.0 mg/L

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
08:15	11.05	0.5	6.78	1.89	615	30.7	17.2	18.1	
08:20	11.1	2	6.71	1.01	585	28.8	17.2	23.3	
08:25	11.09	2.75	6.67	0.8	561	23.9	17.1	22.2	
08:30	11.1	3.5	6.64	0.66	544	23.8	17.1	10.6	
08:35	11.1	4.25	6.62	0.58	532	17.79	17.1	7.7	
08:40	11.1	5	6.62	0.59	531	11.75	17.1	2.7	

Sampling Data

Sample ID: MW-43R-092325
Sample Time Collected: 08:45
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 18
Water Quality Instrument: YSI ProDSS, turb_meter, Turbidity Meter
YSI Serial No.: Rental
Filter: Filtered Some/Metals, Unfiltered
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Orange and brown floc, no odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-44R

Submitted Time: September 25, 2025 2:50 PM
Date of Collection: 09, 23, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Ryne A
Ecology Tag #:
Location ID: MW-44R
Weather: Sunny, Cold (< 70° F)

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 20
Screen Interval Lower Depth: 30
Total Depth: 30
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 7.73
Initial Depth to Water Collection Time: 08:07
Begin Purge: 08:14
Depth to Water After 5 Minutes of Purging: 7.84
Ferrous Iron Field Measurement Result (mg/L): 3.0

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
08:14	7.84	0	6.45	0.72	389	1.73	15.9	-125.2	
08:18	7.89	2	6.45	0.3	384	3.49	15.5	-143.9	
08:24	7.91	4	6.56	0.22	424	2.68	15.4	-176.3	
08:28	7.87	5	6.58	0.2	428	3.61	15.5	-187.2	
08:32	7.85	6	6.57	0.2	427	2.49	15.6	-189.3	
08:36	7.85	6.5	6.59	0.2	429	2.45	15.5	-198.3	
08:39	7.85	7	6.59	0.18	428	3.02	15.5	-201	
08:42	7.85	8	6.59	0.17	428	3.62	15.5	-203	

Sampling Data

Sample ID: MW-44R-092325
Sample Time Collected: 08:45
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 25
Water Quality Instrument: YSI ProDSS, turb_meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description:

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-45R

Submitted Time: September 22, 2025 5:46 PM
Date of Collection: 09, 22, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Ryne A
Ecology Tag #:
Location ID: MW-45R
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 7
Screen Interval Lower Depth: 17
Total Depth: 14.94
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 7.85
Initial Depth to Water Collection Time: 12:03
Begin Purge: 12:03
Depth to Water After 5 Minutes of Purging: 8
Ferrous Iron Field Measurement Result (mg/L): 3.5

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
12:04	8	0	6.8	0.41	977	17.94	16.8	-124.7	
12:08	8.5	2	6.77	0.11	940	80.4	17.1	-126.8	
12:13	9.11	3	6.73	0.1	916	59.8	17.3	-178.4	
12:17	10.53	4	6.74	0.11	963	18.28	17.2	-209.7	
12:21	9.93	5.5	6.76	0.11	966	6.91	17.1	-213.8	
12:24	10.21	6	6.77	0.12	984	4.4	17.1	-213.6	
12:27	10.36	7	6.78	0.12	992	4.1	17.1	-212	

Sampling Data

Sample ID: MW-45R-092225
Sample Time Collected: 12:35
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 12
Water Quality Instrument: YSI ProDSS, turb_meter
YSI Serial No.: Rental
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description:

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-4R

Submitted Time: September 22, 2025 5:46 PM
Date of Collection: 09, 22, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Danielle G
Ecology Tag #:
Location ID: MW-4R
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 10
Screen Interval Lower Depth: 25
Total Depth: 23.94
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 7.81
Initial Depth to Water Collection Time: 10:30
Begin Purge: 10:35
Depth to Water After 5 Minutes of Purging:
Ferrous Iron Field Measurement Result (mg/L): Ferrous iron: 5.5 mg/L

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
10:37	8.09	0.25	6.51	1.39	867	1.93	15.8	-104.3	
10:42	8.2	1.5	6.44	0.32	823	2.75	15.6	-109.8	
10:47	8.25	2.5	6.42	0.2	822	2.41	15.6	-114	
10:52	8.25	3.5	6.46	0.15	791	2.86	15.5	-119.8	
10:57	8.26	4.5	6.48	0.13	790	2.46	15.5	-123	

Sampling Data

Sample ID: MW-4R-092225
Sample Time Collected: 11:00
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 17
Water Quality Instrument: YSI ProDSS, turb_meter, Turbidity Meter
YSI Serial No.: Rental
Filter: Filtered Some/Metals, Unfiltered
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear, odor of carbstrate

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-5R

Submitted Time: September 22, 2025 5:46 PM
Date of Collection: 09, 22, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Nora K
Ecology Tag #:
Location ID: MW-5R
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 10
Screen Interval Lower Depth: 25
Total Depth: 25.36
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 8.73
Initial Depth to Water Collection Time: 10:28
Begin Purge: 10:35
Depth to Water After 5 Minutes of Purging: 9.07
Ferrous Iron Field Measurement Result (mg/L): 1.5mg/L

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
10:40	9.07	1	6.23	3.42	234	0.7	15.6	-23.7	
10:45	9.22	2	6.2	0.71	232	0.73	15.5	-13.6	
10:50	9.29	3	6.22	0.48	232	0.36	15.5	-14	
10:55	9.4	4	6.24	0.37	230	0.34	15.5	-16	
11:00	9.44	5	6.25	0.31	229	0.31	15.4	-17.3	

Sampling Data

Sample ID: MW-5R-092225
Sample Time Collected: 11:05
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 17.5
Water Quality Instrument: YSI ProDSS, turb_meter, Turbidity Meter
YSI Serial No.: 071X
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear no odor no sheen

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-6

Submitted Time: September 24, 2025 3:54 PM
Date of Collection: 09, 24, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Danielle G
Ecology Tag #:
Location ID: MW-6
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 10
Screen Interval Lower Depth: 25
Total Depth: 25
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water:
Initial Depth to Water Collection Time:
Begin Purge: 10:09
Depth to Water After 5 Minutes of Purging:
Ferrous Iron Field Measurement Result (mg/L): Ferrous iron: 4.0 mg/L

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
10:10		0.25	6.66	1.23	977	21.4	17	-110.9	No DW, well has angled couplings
10:15		1.75	6.68	0.31	986	19.73	16.8	-125.1	
10:20		3	6.69	0.2	983	26.7	16.6	-129.8	
10:25		4	6.69	0.17	972	20.7	16.4	-131.4	
10:30		5	6.71	0.14	926	13.17	16.2	-131.9	
10:33		6	6.71	0.13	913	14.68	16.2	-131.5	
10:36		6.5	6.72	0.13	906	10.68	16.2	-131.6	

Sampling Data

Sample ID: MW-6-092425
Sample Time Collected: 10:40
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 15
Water Quality Instrument: YSI ProDSS, turb_meter, Turbidity Meter
YSI Serial No.: Rental
Filter: Filtered Some/Metals, Unfiltered
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Orange tint, no odor

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

MW-7

Submitted Time: September 25, 2025 2:50 PM
Date of Collection: 09, 24, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Ryne A
Ecology Tag #:
Location ID: MW-7
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 10
Screen Interval Lower Depth: 25
Total Depth: 23.93
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 8.19
Initial Depth to Water Collection Time: 09:51
Begin Purge: 09:57
Depth to Water After 5 Minutes of Purging: 8.38
Ferrous Iron Field Measurement Result (mg/L):

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
09:59	8.38	0	6.7	0.72	967	14.84	15.9	-103	
10:04	8.56	1	6.71	0.15	969	5.32	16	-129	
10:09	8.72	2	6.71	0.13	956	2.48	16	-140.3	
10:13	8.85	3	6.67	0.11	923	2.83	15.9	-142.6	
10:17	8.95	4	6.65	0.11	899	3.06	15.9	-141	
10:22	9.02	5	6.62	0.12	898	2.64	15.8	-141.8	

Sampling Data

Sample ID: MW-7-092425
Sample Time Collected: 10:30
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 17
Water Quality Instrument: YSI ProDSS, turb_meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description:

Sample Analyses and Field Quality Control

Field Duplicate: Yes
MS/MSD: No
Duplicate Sample ID: MW-107-092425
Duplicate Date: September 24, 2025
Duplicate Time: 10:45

Groundwater Sample Form

S-MW-1

Submitted Time: September 25, 2025 2:50 PM
Date of Collection: 09, 23, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Ryne A
Ecology Tag #:
Location ID: S-MW-1
Weather: Cold (< 70° F), Sunny

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 5.5
Screen Interval Lower Depth: 15.5
Total Depth: 15.5
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 9.01
Initial Depth to Water Collection Time: 10:34
Begin Purge: 10:34
Depth to Water After 5 Minutes of Purging: 9.01
Ferrous Iron Field Measurement Result (mg/L): 0

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
10:34	9.06	1	6.43	3.5	355	80.4	16.1	104.2	
10:39	9.41	2	6.37	2.18	345	122	15.9	-120	
10:44	9.59	3.5	6.35	2.09	334	214	15.9	131.8	
10:50	9.8	5	6.33	1.83	335	416	15.8	141.9	
10:55	9.9	6	6.32	1.67	333	495	15.8	147.5	
10:58	9.97	7	6.32	1.58	330	472	15.9	150.3	
11:02	10.04	8	6.3	1.47	327	396	15.8	154.3	

Sampling Data

Sample ID: S-MW-1-092325
Sample Time Collected: 11:10
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 10
Water Quality Instrument: YSI ProDSS, turb_meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description:

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

S-MW-2RR

Submitted Time: September 22, 2025 5:46 PM
Date of Collection: 09, 22, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Ryne A
Ecology Tag #:
Location ID: S-MW-2RR
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 5
Screen Interval Lower Depth: 15
Total Depth: 17.64
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 8.93
Initial Depth to Water Collection Time: 14:05
Begin Purge: 14:08
Depth to Water After 5 Minutes of Purging: 9.02
Ferrous Iron Field Measurement Result (mg/L): 2

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
14:10	9.02	0	6.99	0.4	685	5.1	16.9	-241.9	
14:13	9.06	2	6.97	0.12	670	0.75	16.7	-260.1	
14:18	9.06	3	6.95	0.39	671	0.65	16.6	-259.6	
14:21	9.08	4	6.95	0.42	672	0.54	16.6	-258.6	
14:26	9.1	6	6.95	0.43	674	0.67	16.6	-258.4	

Sampling Data

Sample ID: S-MW-2RR-092225
Sample Time Collected: 14:40
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 10
Water Quality Instrument: YSI ProDSS, turb_meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description:

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

S-MW-3RRR

Submitted Time: September 25, 2025 2:50 PM
Date of Collection: 09, 23, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Ryne A
Ecology Tag #:
Location ID: S-MW-3RRR
Weather: Sunny, Cold (< 70° F)

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 24
Screen Interval Lower Depth: 39
Total Depth: 39
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 11.66
Initial Depth to Water Collection Time: 12:24
Begin Purge: 12:20
Depth to Water After 5 Minutes of Purging: 12.15
Ferrous Iron Field Measurement Result (mg/L):

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
12:30	12.16	0	5.93	0.44	253	20.7	15.3	101.9	
12:35	12.74	2	5.91	0.17	248	6.86	15	116.1	
12:42	13.12	4	5.9	0.14	247	3.23	15	124.3	
12:48	13.2	6	5.91	0.14	247	3.71	14.8	126.4	
12:52	13.2	6.5	5.91	0.13	245	2.73	14.9	122.7	

Sampling Data

Sample ID: S-MW-3RRR-092325
Sample Time Collected: 13:00
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 30
Water Quality Instrument: YSI ProDSS, turb_meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description:

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

Groundwater Sample Form

S-MW-5R

Submitted Time: September 22, 2025 5:46 PM
Date of Collection: 09, 22, 2025
Project/Task: COB-BSC, Task 4
Field Personnel: Nora K
Ecology Tag #:
Location ID: S-MW-5R
Weather: Indoors

Groundwater Monitoring

Depth Units: ft bTOC
Screen Interval Upper Depth: 15
Screen Interval Lower Depth: 25
Total Depth: 25.13
Casing Diameter: 2

General Purge Information

Depth Units: ft bTOC
Depth Sounder Decontaminated: Yes
Depth to Water: 8.65
Initial Depth to Water Collection Time: 12:59
Begin Purge: 13:05
Depth to Water After 5 Minutes of Purging: 9.57
Ferrous Iron Field Measurement Result (mg/L): 2.0mg/L

Stabilization Inputs

Start Time	Depth to Water (ft bTOC)	Volume Purged (L)	pH (s.u.)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Comments
13:10	9.57	1	5.09	0.71	1,520	19.03	15	-18.6	
13:15	9.66	2	5.08	0.58	1,510	41.6	14.9	-25.5	
13:20	9.73	3	5.08	0.39	1,510	37.9	14.9	-28.7	
13:25	9.8	4	5.08	0.29	1,510	21.4	14.8	-32.9	
13:30	9.86	5	5.08	0.27	1,510	19.92	14.8	-33.8	
13:35	9.92	6	5.08	0.25	1,510	19.2	14.7	-36.3	

Sampling Data

Sample ID: S-MW-5R-092225
Sample Time Collected: 13:40
Sample Gear: Peristaltic Pump
Sample Depth (ft bTOC): 20
Water Quality Instrument: YSI ProDSS, turb_meter, Turbidity Meter
YSI Serial No.:
Filter: Filtered Some/Metals
Filter Size: 0.45 micron
Other Instrument Type:
Sample Decon Procedure: Disposable Tubing
Sample Description: Clear, strong microbial activity odor/carbstrate

Sample Analyses and Field Quality Control

Field Duplicate: No
MS/MSD: No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 1/6/25 Personnel: DG

Sign-in time with Graham: _____ Sign-out time with Graham: _____

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☐ Yes ☒ No

Number of CarbStrate bags remaining: 13 (Notify ETEC when 4 bags are remaining)

Notes: _____

IDW Tank:

Tank Level: 100 gallons

Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: 35 psi Right: 0 psi

Back Train Left: 35 psi Right: 0 psi

Backflush Needed? ☐ Yes ☒ No

1/27/25

System running upon arrival
Tank 2 low, slow flowthrough transfer pump
due to carbon vessel reconfiguration on 1/23
after right front vessel internal screen
found to be damaged
Excessive carbon build up in pre-carbon y-strainer
due to backflushing
Excessive buildup in post-carbon y-strainer
Plan to collect system sample next week to
check for breakthrough
All y-strainers cleaned
Not enough tank 2 water to fill mixing
tank or run injection cycle - plan to
come back later in the week to finish O&M

1/29/25

Tank 2 Still low (~1/4 Full)

- re-cleaned pre carbon Y-strainer
  minimal carbon, but excessive IRB build up
- Added 1 Bag of carbstrate

- Transfer pump warm to touch from
  running continuously
- carbon vessel #1 psi climbing (40+ pre cleaning,
  dropped to ~15psi, then slowly climbing)

IDW Tank:
Tank Level: 135 gallons
Notes:

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):
Front Train Left: 46 psi Right: — psi
Back Train Left: 46 psi Right: 0 psi
Backflush Needed? ☒ Yes ☐ No

Next week

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 1/13/24 Personnel: DG

Sign-in time with Graham: _____ Sign-out time with Graham: _____

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: ~~Okay~~ Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No - one bag added due to high tank level upon arrival

Mixing Tank Level Sensors Cleaned ☐ Yes ☒ No

Number of CarbStrate bags remaining: 12 (Notify ETEC when 4 bags are remaining)

Notes: _____

IDW Tank:

Tank Level: ~1005 gallons

Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: 46 psi Right: 0 psi

Back Train Left: 46 psi Right: 0 psi

Backflush Needed? ☒ Yes ☐ No

Next week

1/20/24

System running/no alarms

Tank 2 low - transfer pump running upon arrival

Attempted backflush of front train, no flow through

Contacted ETEC about troubleshooting

All Y-strainers cleaned + in good condition

IRB cleaned out of corn lock parts opened during backflush

10 ~~600~~ Carbstrate bags remaing

2 added during OFH

Front left: 40 psi Front right: 0 psi

Back left: 40 psi ~~Front~~ Back right: 0 psi

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 2/3/25 Personnel: DG

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup ~~Excessive Buildup~~

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☒ No Not enough tank 2 water

Mixing Tank Level Sensors Cleaned ☐ Yes ☒ No Mixing tank refilled & mixed as much as possible

Number of CarbStrate bags remaining: A lot (Notify ETEC when 4 bags are remaining)

Notes: _____

IDW Tank:

Tank Level: ~100 gallons

Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: _____ psi Right: _____ psi

Back Train Left: _____ psi Right: _____ psi

Backflush Needed? ☐ Yes ☐ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 2/10/25 Personnel: DG

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup ~~Excessive Buildup~~

Strainer Condition: ~~Okay~~ Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean ~~Noticeable Buildup~~ Excessive Buildup

Strainer Condition: ~~Okay~~ Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean ~~Noticeable Buildup~~ Excessive Buildup

Strainer Condition: ~~Okay~~ Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No one bag added due to reduced flow while waiting on carbon vessel repair

Mixing Tank Level Sensors Cleaned ☐ Yes ☒ No

Number of CarbStrate bags remaining: ~28 (Notify ETEC when 4 bags are remaining)

Notes: _____

IDW Tank:

Tank Level: ~100 gallons

Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: _____ psi Right: _____ psi

Back Train Left: _____ psi Right: _____ psi } configuration modified

Backflush Needed? ☐ Yes ☐ No

When new carbon vessel arrives

Note: dwell time reversed to 1 hour to allow tank 2 recharge

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 2/18/25 Personnel: P.O.

System Status Upon Arrival: Running? ☑ Yes ☐ No

Alarms? ☐ Yes ☑ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: Some trace carbon

CarbStrate & CarbStrate Mixer:

Two – 50 lb bags of CarbStrate Added ☐ Yes ☑ No 1 bag added b/c of reduced dwell time (60min)

Mixing Tank Level Sensors Cleaned ☑ Yes ☐ No

Number of CarbStrate bags remaining: _____ (Notify ETEC when 4 bags are remaining)

Notes: due to carbon vessel train change

IDW Tank:

Tank Level: ~100 gallons

Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: 18 psi Right: NA psi

Back Train Left: 0 psi Right: 0 psi

Backflush Needed? ☐ Yes ☑ No

climbing to 45 psi

FTEC visit on
2/20/25 to replace
damaged carbon vessel

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 2/24/25 Personnel: DG

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean (Noticeable Buildup) Excessive Buildup

Strainer Condition: (Okay) Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean (Noticeable Buildup) Excessive Buildup

Strainer Condition: (Okay) Noticeable damage or tears

Notes: Black residue from new carbon

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean (Noticeable Buildup) Excessive Buildup

Strainer Condition: (Okay) Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No only one bag added for the last time, dwell time changed back to 30 mins

Mixing Tank Level Sensors Cleaned ☐ Yes ☒ No

Number of CarbStrate bags remaining: ~26 (Notify ETEC when 4 bags are remaining)

Notes: Bags new compressor nitrogen

IDW Tank:

Tank Level: ~125 gallons

Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: 40 psi Right: 0 psi

Back Train Left: 40 psi Right: 0 psi

Backflush Needed? ☒ Yes ☐ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 3/3/25 Personnel: DG/JL

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup ~~Excessive Buildup~~

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean ~~Noticeable~~ Buildup Excessive Buildup

Strainer Condition: Okay ~~Noticeable damage~~ or tears

Notes: _____

CarbStrate & CarbStrate Mixer:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☐ Yes ☒ No

Number of CarbStrate bags remaining: ~23 (Notify ETEC when 4 bags are remaining)

Notes: 1 bag of Carbstrate added to mostly full tank for first SaceSeed trial into IW18 & IW22

IDW Tank:

Tank Level: ~185 gallons

Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: 44 psi Right: 0 psi

Back Train Left: 44 psi Right: 0 psi

Backflush Needed? ☒ Yes ☐ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 03/10/2025 Personnel: MS + DG

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: carbon buildup in strainer 4

CarbStrate & CarbStrate Mixer:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No only 1 bag added, with water level

Mixing Tank Level Sensors Cleaned ☒ Yes ☐ No

Number of CarbStrate bags remaining: ~22 (Notify ETEC when 4 bags are remaining)

Notes: _____

IDW Tank:

Tank Level: 130 gallons

Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: 40 psi Right: 05 psi

Back Train Left: 40 psi Right: N/A psi

Backflush Needed? ☐ Yes ☒ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 3/17/25 Personnel: DG / PM Training

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup ~~Excessive Buildup~~

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean ~~Noticeable Buildup~~ Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 4: Internal Force Feed Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: Cleaned last week

CarbStrate & CarbStrate Mixer Force Feeding: one bag added due to low tank 2 level

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Full mixture dosed to 18iR and 22i ☒ Yes ☐ No

CarbStrate & CarbStrate Mixer Weekly Supply:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☐ Yes ☒ No

Number of CarbStrate bags remaining: ~19 (Notify ETEC when 4 bags are remaining)

Notes: _____

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 3/24/25 Personnel: DG

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☒ Yes ☐ No

Number of CarbStrate bags remaining: 17 (Notify ETEC when 4 bags are remaining)

Notes: _____

IDW Tank:

Tank Level: ~140 gallons

Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: 45 psi Right: N/A psi

Back Train Left: 45 psi Right: 0 psi

Backflush Needed? ☐ Yes ☒ No

Back flush conducted on both trains

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 3/31/25 Personnel: PO.

System Status Upon Arrival: Running? ☑ Yes ☐ No

Alarms? ☐ Yes ☑ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 4: Internal Force Feed Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: Carbon + Brush Bristles from solution tank

CarbStrate & CarbStrate Mixer Force Feeding:

Two – 50 lb bags of CarbStrate Added ☑ Yes ☐ No

Full mixture dosed to 18iR and 22i ☑ Yes ☐ No

CarbStrate & CarbStrate Mixer Weekly Supply:

Two – 50 lb bags of CarbStrate Added ☑ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☑ Yes ☐ No

Number of CarbStrate bags remaining: ~~18~~ 13 (Notify ETEC when 4 bags are remaining)

Notes: _____

IDW Tank:
Tank Level: ~140 gallons
Notes:

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):
Front Train Left: 41 psi Right: NA psi
Back Train Left: 42 psi Right: 0 psi
Backflush Needed? ☐ Yes ☑ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 4/7/25 Personnel: DG

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☐ Yes ☒ No

Number of CarbStrate bags remaining: 11 (Notify ETEC when 4 bags are remaining)

Notes: _____

IDW Tank:

Tank Level: ~140 gallons

Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: 46 psi Right: N/A psi

Back Train Left: 43 psi Right: 0 psi

Backflush Needed? ☐ Yes ☒ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 4/14/25 Personnel: DG

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 4: Internal Force Feed Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer Force Feeding:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Full mixture dosed to 18iR and 22i ☒ Yes ☐ No

CarbStrate & CarbStrate Mixer Weekly Supply:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☒ Yes ☐ No

Number of CarbStrate bags remaining: 7 (Notify ETEC when 4 bags are remaining)

Notes: Notify ETEC next week about Carbstrate delivery + fixing internal fan

IDW Tank:
Tank Level: _____ gallons
Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):
Front Train Left: _____ psi Right: _____ psi
Back Train Left: _____ psi Right: _____ psi
Backflush Needed? ☐ Yes ☐ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 4/21/25 Personnel: John C.

System Status Upon Arrival: Running? ☑ Yes ☐ No

Alarms? ☐ Yes ☑ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer:

Two – 50 lb bags of CarbStrate Added ☑ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☑ Yes ☐ No

Number of CarbStrate bags remaining: 5 (Notify ETEC when 4 bags are remaining)

Notes: _____

IDW Tank:

Tank Level: ~140 gallons

Notes: weird cylinder floaties

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: ~45 psi Right: N/A psi

Back Train Left: ~45 psi Right: 0 psi

Backflush Needed? ☐ Yes ☒ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 4/28/25 Personnel: DG

System Status Upon Arrival: Running? ☐ Yes ☒ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: System shut off on 4/24 due to IW-4 V2V1 leak

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 4: Internal Force Feed Strainer (Circle):

clean next week

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer Force Feeding:

one Half

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Full mixture dosed to T8iR and 22i ☒ Yes ☐ No

↖ 18 put in weekly, only 22

CarbStrate & CarbStrate Mixer Weekly Supply:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☒ Yes ☐ No

Number of CarbStrate bags remaining: 3 (Notify ETEC when 4 bags are remaining)

Notes: ETEC delivery next week

IDW Tank:
Tank Level: 140 gallons
Notes:

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):
Front Train Left: 44 psi Right: N/A psi
Back Train Left: 20 psi Right: 0 psi
Backflush Needed? ☐ Yes ☒ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 5/9/25 Personnel: DG

System Status Upon Arrival: Running? ☐ Yes ☒ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System off for semi-annual sampling event

Restarted after O&M

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No (only 1 bag - high tank level)

Mixing Tank Level Sensors Cleaned ☐ Yes ☐ No

Number of CarbStrate bags remaining: 22 (Notify ETEC when 4 bags are remaining)

Notes: _____

IDW Tank:

Tank Level: 230 gallons

Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: 10 psi Right: 0 psi – upon pump restart, ok

Back Train Left: 10 psi Right: 0 psi

Backflush Needed? ☒ Yes ☐ No

5/19

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 5/19/25 Personnel: DG

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 4: Internal Force Feed Strainer (Circle): ☒ - 5/27 (Not done)

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer Force Feeding:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Full mixture dosed to T8iR and 22i ☒ Yes ☐ No

CarbStrate & CarbStrate Mixer Weekly Supply:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☒ Yes ☐ No

Number of CarbStrate bags remaining: 19 (Notify ETEC when 4 bags are remaining)

Notes: _____

IDW Tank:
Tank Level: 240 gallons
Notes:

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):
Front Train Left: 44 psi Right: N/A psi
Back Train Left: 44 psi Right: 0 psi
Backflush Needed? ☒ Yes ☐ No

Backflush conducted on front train + carbon came out. Called ETEC, system okay to stay on since carbon is not coming at during normal operation, but will need to be inspected during carbon change at

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 5/20/25 Personnel: P.O.

System Status Upon Arrival: Running? ☑ Yes ☐ No

Alarms? ☐ Yes ☑ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer:

Two – 50 lb bags of CarbStrate Added ☑ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☑ Yes ☐ No Tank only half empty on arrival

Number of CarbStrate bags remaining: 17 (Notify ETEC when 4 bags are remaining)

Notes: _____

IDW Tank:

Tank Level: 240 gallons

Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: 39 psi Right: 0 psi

Back Train Left: 41 psi Right: — psi

Backflush Needed? ☐ Yes ☒ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 6/2/2025 Personnel: Jake Combs

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☒ Yes ☐ No

If Yes, list alarms: Solution tank high level

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes:

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes:

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes:

Strainer 4: Internal Force Feed Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: Carbon & other debris built up

CarbStrate & CarbStrate Mixer Force Feeding:

Two – 50 lb bags of CarbStrate Added ☐ Yes ☒ No

Full mixture dosed to T8iR and 22i ☐ Yes ☒ No

Tank is full on arrival low pressure alarms unable to inject

CarbStrate & CarbStrate Mixer Weekly Supply:

Two – 50 lb bags of CarbStrate Added ☐ Yes ☒ No

Mixing Tank Level Sensors Cleaned ☒ Yes ☐ No

Number of CarbStrate bags remaining: 16 (Notify ETEC when 4 bags are remaining)

unable to drain tank, Added 1 bag after getting some forced injection @ IW22

Notes:

IDW Tank:
Tank Level: 2250 gallons
Notes:

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):
Front Train Left: _____ psi Right: _____ psi
Back Train Left: _____ psi Right: _____ psi
Backflush Needed? ☐ Yes ☐ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 6/9/25 Personnel: JL

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☒ Yes ☐ No

Number of CarbStrate bags remaining: 16 (Notify ETEC when 4 bags are remaining)

Notes: solution tank almost full upon arrival

IDW Tank:

Tank Level: 2250 gallons

Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: 11 psi Right: 0 psi

Back Train Left: 11 psi Right: 6 psi

Backflush Needed? ☐ Yes ☒ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 7/7/25 Personnel: DG/Lexi/Nikoli2

System Status Upon Arrival: Running? ☐ Yes ☒ No

Alarms? ☒ Yes ☐ No

If Yes, list alarms: High Solution Tank

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: Carbon in strainer

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: Not dosed - System has been off

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: Not dosed - System has been off

Strainer 4: Internal Force Feed Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: Not dosed - Force feeds paused

CarbStrate & CarbStrate Mixer Force Feeding:

One ~~Two~~ – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Full mixture dosed to 18iR and 22i ☐ Yes ☒ No

CarbStrate & CarbStrate Mixer Weekly Supply:

Two – 50 lb bags of CarbStrate Added ☐ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☐ Yes ☐ No

Number of CarbStrate bags remaining: _____ (Notify ETEC when 4 bags are remaining)

Notes:

IDW Tank:
Tank Level: 330 gallons
Notes: Pumped water from mixing tank

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):
Front Train Left: _____ psi Right: _____ psi
Back Train Left: _____ psi Right: _____ psi
Backflush Needed? ☐ Yes ☒ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 7/14/25 Personnel: DG

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: High float mixing tank triggered over the weekend, but not triggered upon arrival

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes:

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes:

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes:

CarbStrate & CarbStrate Mixer:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☒ Yes ☐ No

Number of CarbStrate bags remaining: _____ (Notify ETEC when 4 bags are remaining)

Notes:

IDW Tank:

Tank Level: 330 gallons

Notes:

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: 18 psi Right: N/A psi

Back Train Left: 18 psi Right: 0 psi

Backflush Needed? ☐ Yes ☒ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 7/21/25 Personnel: PG

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 4: Internal Force Feed Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer Force Feeding:

One Two – 50 lb bags of CarbStrate Added ☐ Yes ☐ No

Full mixture dosed to 18iR and 22i ☐ Yes ☐ No

Force feed slow issue ETEC visit 7/23

CarbStrate & CarbStrate Mixer Weekly Supply:

One Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No – tank high level

Mixing Tank Level Sensors Cleaned ☒ Yes ☐ No

Number of CarbStrate bags remaining: 9 (Notify ETEC when 4 bags are remaining)

Notes: Early carbstrate delivery on 7/23

IDW Tank:
Tank Level: _____ gallons
Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):
Front Train Left: _____psi Right: _____psi
Back Train Left: _____psi Right: _____psi
Backflush Needed? ☐ Yes ☐ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 07/28/25 Personnel: NC, DG

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean (Noticeable Buildup) Excessive Buildup

Strainer Condition: (Okay) Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: (Clean) Noticeable Buildup Excessive Buildup

Strainer Condition: (Okay) Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean (Noticeable Buildup) Excessive Buildup

Strainer Condition: (Okay) Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☒ Yes ☐ No

Number of CarbStrate bags remaining: ~25 (Notify ETEC when 4 bags are remaining)

Notes: _____

IDW Tank:

Tank Level: ~340 gallons

Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: 40 psi Right: 0 psi

Back Train Left: 40 psi Right: 0 psi

Backflush Needed? ☐ Yes ☒ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 8/4/25 Personnel: DG

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

~~**Strainer 4: Internal Force Feed Strainer (Circle):**~~

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

~~**CarbStrate &** **CarbStrate Mixer Force Feeding:**~~ no force feeding

~~Two – 50 lb bags of CarbStrate Added ☐ Yes ☐ No~~

~~Full mixture dosed to 18iR and 221 ☐ Yes ☐ No~~

CarbStrate & CarbStrate Mixer Weekly Supply:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☐ Yes ☒ No

Number of CarbStrate bags remaining: ~23 (Notify ETEC when 4 bags are remaining)

Notes: _____

IDW Tank:
Tank Level: 340 gallons
Notes:

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):
Front Train Left: 10 psi Right: N/A psi
Back Train Left: 10 psi Right: 0 psi
Backflush Needed? ☐ Yes ☒ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 8/11/25 Personnel: PG

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☐ Yes ☒ No

Number of CarbStrate bags remaining: ~11 (Notify ETEC when 4 bags are remaining)

Notes: _____

IDW Tank:

Tank Level: ~340 gallons

Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: 8 psi Right: N/A psi

Back Train Left: 11 psi Right: 0 psi

Backflush Needed? ☐ Yes ☒ No

But later this month

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 6/18/25 Personnel: JL

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: Lots of water surrounding strainer from leaking hoses.

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

~~**Strainer 4: Internal Force Feed Strainer (Circle):**~~

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer Force Feeding:

Two – 50 lb bags of CarbStrate Added ☐ Yes ☒ No

Full mixture dosed to 18iR and 22i ☐ Yes ☒ No

CarbStrate & CarbStrate Mixer Weekly Supply:

Two – 50 lb bags of CarbStrate Added ☐ Yes ☒ No

Mixing Tank Level Sensors Cleaned ☐ Yes ☒ No

Number of CarbStrate bags remaining: _____ (Notify ETEC when 4 bags are remaining)

Notes: _____

IDW Tank:
Tank Level: _____ gallons
Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):
Front Train Left: _____ psi Right: _____ psi
Back Train Left: _____ psi Right: _____ psi
Backflush Needed? ☐ Yes ☐ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 9/24/25 Personnel: DG

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean (Noticeable Buildup) Excessive Buildup

Strainer Condition: (Okay) Noticeable damage or tears

Notes: Carbon in line from backflush, valve not closing well – monitor

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: (Clean) Noticeable Buildup Excessive Buildup

Strainer Condition: (Okay) Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: (Clean) Noticeable Buildup Excessive Buildup

Strainer Condition: (Okay) Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☒ Yes ☐ No

Number of CarbStrate bags remaining: ~20 (Notify ETEC when 4 bags are remaining)

Notes: _____

IDW Tank:

Tank Level: 150 gallons

Notes: Mostly pump down to tank 1 for system processing

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: 30 psi Right: N/A psi

Back Train Left: 30 psi Right: 0 psi

Backflush Needed? ☒ Yes ☐ No

LAT next monthly gravity feeding

System modifications:

Only running extraction well 3

Running injection wells: 2* + 4 in gallery 1

*8 in gallery 2

Not running gallery 3

1 + 22 in gallery 4

* watch pressures closely + adjust as needed

Focusing only on shallow aquifer

Begin monthly gravity feed of Carbstrate into HZ-MW-16D + S-MW-5R

System restarted on 9/23 after replacing chewed through injection hose

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 09/29/25 Personnel: NC

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: No carbon issues

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: —

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: Moldy carbstrate, foul odor, milky water

~~**Strainer 4: Internal Force Feed Strainer (Circle):**~~

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

~~**CarbStrate** & **CarbStrate Mixer Force Feeding:**~~

~~Two – 50 lb bags of CarbStrate Added~~ ☐ Yes ☐ No

~~Full mixture dosed to 18iR and 22i~~ ☐ Yes ☐ No

CarbStrate & CarbStrate Mixer Weekly Supply:

Two – 50 lb bags of CarbStrate Added ☐ Yes ☒ No 1 bag added, tank was ~½ full upon arrival

Mixing Tank Level Sensors Cleaned ☒ Yes ☐ No

Number of CarbStrate bags remaining: ~18 (Notify ETEC when 4 bags are remaining)

Notes:

Carbon ~~Reactor~~ Vessel pressures ~40 psi.

IDW Tank:
Tank Level: _____ gallons
Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):
Front Train Left: _____ psi Right: _____ psi
Back Train Left: _____ psi Right: _____ psi
Backflush Needed? ☐ Yes ☐ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 10/6/25 Personnel: PG

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☒ Yes ☐ No

Number of CarbStrate bags remaining: ~16 (Notify ETEC when 4 bags are remaining)

Notes: _____

IDW Tank:

Tank Level: ~100 gallons

Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: 46 psi Right: N/A psi

Back Train Left: 46 psi Right: 0 psi

Backflush Needed? ☐ Yes ☒ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 10/12/25 Personnel: DG

System Status Upon Arrival: Running? ☐ Yes ☒ No

Alarms? ☒ Yes ☐ No

If Yes, list alarms: Meter pump fault - resolved

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean ~~Noticeable Buildup~~ Excessive Buildup

Strainer Condition: ~~Okay~~ Noticeable damage or tears

Notes:

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: ~~Clean~~ Noticeable Buildup Excessive Buildup

Strainer Condition: ~~Okay~~ Noticeable damage or tears

Notes:

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean ~~Noticeable Buildup~~ Excessive Buildup

Strainer Condition: ~~Okay~~ Noticeable damage or tears

Notes:

~~Strainer 4: Internal Force Feed~~ Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes:

CarbStrate & CarbStrate Mixer Force Feeding:

~~Two – 50 lb bags of CarbStrate Added~~ ☒ Yes ☐ No

~~Full mixture dosed to 18iR and 22i~~ ☐ Yes ☐ No

CarbStrate & CarbStrate Mixer Weekly Supply:

Two -- 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Mixir g Tank Level Sensors Cleaned ☒ Yes ☐ No

Numt er of CarbStrate bags remaining: _____ (Notify ETEC when 4 bags are remaining)

Notes:

IDW Tank:
Tank Level: ~100 gallons
Notes:

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):
Front Train Left: 45 psi Right: N/A psi
Back Train Left: 46 psi Right: 0 psi
Backflush Needed? ☐ Yes ☒ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 10/26/25 Personnel: PG

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☒ Yes ☐ No

Number of CarbStrate bags remaining: 10 (Notify ETEC when 4 bags are remaining)

Notes: _____

IDW Tank:

Tank Level: ~120 gallons

Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: 15 psi Right: N/A psi

Back Train Left: 18 psi Right: 0 psi

Backflush Needed? ☐ Yes ☒ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 11/17/25 Personnel: DG

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: mild

~~**Strainer 4: Internal Force Feed Strainer (Circle):**~~

~~CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup~~

~~Strainer Condition: Okay Noticeable damage or tears~~

~~Notes:~~ _____

~~**CarbStrate & CarbStrate Mixer Force Feeding:**~~

~~Two – 50 lb bags of CarbStrate Added ☐ Yes ☐ No~~

~~Full mixture dosed to 18iR and 22i ☐ Yes ☐ No~~

CarbStrate & CarbStrate Mixer Weekly Supply:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☐ Yes ☒ No

Number of CarbStrate bags remaining: 20+ (Notify ETEC when 4 bags are remaining) new delivery 11/11

Notes: _____

IDW Tank:
Tank Level: ~ 110 gallons
Notes:

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):
Front Train Left: _____ psi Right: _____ psi
Back Train Left: _____ psi Right: _____ psi
Backflush Needed? ☐ Yes ☒ No

Carbon change out needed - January

Water pump tubing replaced

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 11/24/25 Personnel: DG

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean ~~Noticeable Buildup~~ Excessive Buildup

Strainer Condition: ~~Okay~~ Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean ~~Noticeable Buildup~~ Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☒ Yes ☐ No

Number of CarbStrate bags remaining: ~24 (Notify ETEC when 4 bags are remaining)

Notes: _____

IDW Tank:

Tank Level: ~110 gallons

Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: 47 psi Right: N/A psi

Back Train Left: 49 psi Right: 0 psi

Backflush Needed? ☐ Yes ☐ No

↳ carbon change out in January

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 12/1/25 Personnel: NC

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 4: Internal Force Feed Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer Force Feeding:

Two – 50 lb bags of CarbStrate Added ☐ Yes ☐ No

Full mixture dosed to 18iR and 22i ☐ Yes ☐ No

CarbStrate & CarbStrate Mixer Weekly Supply:

Two – 50 lb bags of CarbStrate Added ☐ Yes ☒ No

Mixing Tank Level Sensors Cleaned ☒ Yes ☐ No

Number of CarbStrate bags remaining: ~23 (Notify ETEC when 4 bags are remaining)

Notes: Added 1 bag carbstrate

IDW Tank:
Tank Level: ~125 gallons
Notes:

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):
Front Train Left: 42 psi Right: NA psi
Back Train Left: 41 psi Right: 0 psi
Backflush Needed? ☐ Yes ☐ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 12/8/25 Personnel: NC

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: —

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: —

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: —

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: —

CarbStrate & CarbStrate Mixer Weekly Supply:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☒ Yes ☐ No

Number of CarbStrate bags remaining: ~21 (Notify ETEC when 4 bags are remaining)

Notes: ~

IDW Tank:

Tank Level: ~125 gallons

Notes: —

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: 20 psi Right: NA psi

Back Train Left: 21 psi Right: 0 psi

Backflush Needed? ☐ Yes ☐ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 12/15/25 Personnel: DG/EB

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean (Noticeable Buildup) Excessive Buildup

Strainer Condition: (Okay) ~~Noticeable damage or tears~~

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: (Clean) Noticeable Buildup Excessive Buildup

Strainer Condition: (Okay) Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean (Noticeable Buildup) Excessive Buildup

Strainer Condition: (Okay) Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer Weekly Supply:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☐ Yes ☒ No

Number of CarbStrate bags remaining: 20 (Notify ETEC when 4 bags are remaining)

Notes: _____

IDW Tank:

Tank Level: 140 gallons

Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: 46 psi Right: N/A psi

Back Train Left: 46 psi Right: 0 psi

Backflush Needed? ☐ Yes ☒ No

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 12/22/25 Personnel: DG

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean Noticeable Buildup Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer Weekly Supply:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☒ Yes ☐ No

Number of CarbStrate bags remaining: 18 (Notify ETEC when 4 bags are remaining)

Notes: _____

IDW Tank:

Tank Level: 140 gallons

Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: 20 psi Right: N/A psi recorded after cleaning

Back Train Left: 20 psi Right: 0 psi

Backflush Needed? ☐ Yes ☒ No

Changed in January

BSC Weekly O&M Form – Lockbox Code: 1257

Date: 12/29/25 Personnel: PG

System Status Upon Arrival: Running? ☒ Yes ☐ No

Alarms? ☐ Yes ☒ No

If Yes, list alarms: _____

System Notes

Strainer 1: Pre- Carbon Filters (Circle):

IRB Buildup: Clean ~~Noticeable Buildup~~ Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

Strainer 2: Post- Carbon Filters (Circle):

IRB Buildup: Clean ~~Noticeable Buildup~~ Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: Some carbon + grey slime

Strainer 3: Internal Strainer (Circle):

CarbStrate Buildup: Clean ~~Noticeable Buildup~~ Excessive Buildup

Strainer Condition: Okay Noticeable damage or tears

Notes: _____

CarbStrate & CarbStrate Mixer Weekly Supply:

Two – 50 lb bags of CarbStrate Added ☒ Yes ☐ No

Mixing Tank Level Sensors Cleaned ☒ Yes ☐ No

Number of CarbStrate bags remaining: 17 (Notify ETEC when 4 bags are remaining)

Notes: _____

IDW Tank:

Tank Level: 145 gallons

Notes: _____

Carbon Vessel Pressure Gauge Readings (while transfer pump is running):

Front Train Left: 28 psi Right: N/A psi

Back Train Left: 30 psi Right: 0 psi

Backflush Needed? ☐ Yes ☒ No

Carbon emergent in January

BSC Totalizer Readings				
Injection Wells	Date: 12/30/24	Date: 1/6/25	Date: 1/13/25	Date: 1/20/25
IW2	—	—	—	—
IW4	115876.9	117630.9	120875.9	123363
IW18	—	—	—	—
IW10	—	—	—	—
IW6	34054.9	342232.5	343849.5	345136.6
IW8	—	—	—	—
IW11	373593.0	374523.5	375198.7	375780.0
IW9	246574	247805.7	249910.1	251449.5
IW21	246283.8	246283.8	—	—
IW14	—	—	—	—
IW12	—	—	—	—
IW22	—	—	—	—
IW1	185694.8	186803.6	188365.3	189298.6
Extraction Wells				
16e	—	—	—	—
7e	10105.6	10105.1	10104.3 ☆	10083.5
5e	—	—	—	—
13e	235257.5	239402.5	244933.7	248365.0
23e	—	—	—	—
3e	386229.2	389525.0	394042.0	398304.5
Pressure Notes:	Flow in IW9 increased slightly on 1/6			

☆ appears to be rolling back, contact BTEC

BSC Totalizer Readings					
Injection Wells	Date: 1/27/25	Date: 2/3/25	Date: 2/10/25	Date: 2/18/25	
IW2	—	—	—	—	
IW4	126123.6	128072.1	130037.5	131416.8	(psi ~5)
IW18	—	—	—	—	
IW10	—	—	—	—	
IW6	346563.1	347552.0	348567.7	349595.0	
IW8	—	—	—	—	
IW11	376384.1	376834.3	377335.9	377877.8	
IW9	2532348	2543869	2556601	257013.1	(psi ~7)
IW21	246283.8	246283.9	246283.8	246283.2	
IW14	—	—	—	—	
IW12	—	—	—	—	
IW22	—	—	—	—	
IW1	190562.4	191169.9	192007.5	192982.5	(psi ~2)
Extraction Wells					
16e	—	—	—	—	
7e	10382.9	10831.8	10831.8	114247	
5e	—	—	—	—	
13e	252615.0	254786.5	257739.0	259856.7	
23e	—	—	—	—	
3e	4023628	405610.5	409118.8	412520.8	
Pressure Notes:	Not able to observe injection cycle due to low level in tank 2				

BSC Totalizer Readings				
Injection Wells	Date: 2/24/25	Date: 3/3/25	Date: 3/10/25	Date: 3/17/25
IW2	–	–	–	–
IW4	132460.0	134313.5	135982.9	137528.9
IW18	–	196731.5	196731.6	196756.3
IW10	–	–	–	–
IW6	350373.1	352057.6	353705.0	355189.4
IW8	–	–	–	–
IW11	3782688	379028.7	379751.6	380441.4
IW9	258094.2	260527.3	263030.7	265266.7
IW21	–	–	–	–
IW14	–	–	–	–
IW12	–	–	–	–
IW22	–	296828.5	296828.5	296869.0
IW1	193714.2	195283.7	197105.0	198689.5
Extraction Wells				
16e	–	–	–	–
7e	117860	12415.6	13101.9	13847.6
5e	–	–	–	–
13e	262015.3	266902.0	271311.9	274686.5
23e	–	–	–	–
3e	414701.9	418713.0	423431.3	428300.6
Pressure Notes:				

* Add to totalizer log to track force feeding

BSC Totalizer Readings				
Injection Wells	Date: 3/24/25	Date: 3/31/25	Date: 4/7/25	Date: 4/14/25
IW2	—	—	—	—
IW4	138465.8	139313.7	140598.7	141865.8
IW18	196756.3	196784.1	196784.2	196819.3
IW10	—	—	—	—
IW6	356882.0	358259.6	359986.7	361741.4
IW8	—	—	—	—
IW11	381143.5	381702.7	382409.6	383107.7
IW9	267891.5	269991.2	272337.3	274642.3
IW21	—	246271.9	246270.3	246267.6
IW14	—	—	—	—
IW12	—	—	—	—
IW22	296869.0	296906.2	296906.2	296959.0
IW1	199598.6	199396.2	201826.7	203179.6
Extraction Wells				
16e	—	—	—	—
7e	14491.8	14982.3	15629.2	16299.1
5e	—	—	—	—
13e	278134.7	281161.6	285245.0	289273.0
23e	—	—	—	—
3e	432470.1	435742.2	439181.5	443877.0
Pressure Notes:				

slight roll back observed on 4/14

BSC Totalizer Readings				
Injection Wells	Date: 4/21/25	Date: 4/28/25	Date: 5/9/25	Date: 5/19/25
IW2	~~143099~~	—	—	
IW4	143079	143612.6	143612.6	143620.6
IW18	196819.3 ~~196821.0~~	196826.0	198268.3	200123.7
IW10	—	—	—	—
IW6	362989.5 ~~362985~~	363555.4	365397.9	367767.9
IW8	—	—	—	—
IW11	383623.9	383843.4	384557.6	385591.0
IW9	276225.5	276920.6	279202.4	282087.3
IW21	246266.8	246266.4	246264.8	246263.1
IW14	—	—	—	—
IW12	—	—	—	—
IW22	296959.0	296959.0	296988.8	297025.3
IW1	204299.7	204772.7	206714.0	209202.5
Extraction Wells				
16e	—	—	—	—
7e	16797.5	17002.6	17529.4	18160.9
5e	—	—	—	—
13e	292478.0	293883.0	298977.5	305619.0
23e	—	—	—	—
3e	446950	448211.5	452736.8	457341.2
Pressure Notes:				

BSC Totalizer Readings				
Injection Wells	Date: 5/20/25	Date: 6/2/25	Date: 6/9/25	Date: 7/7/25
IW2	168,803.5	168,803.5	—	—
IW4	144060.8	144,685.0	145,331.3	145697.9
IW18	~~199708.~~ 200708.3	201,471.4	202,268.6	202818.4
IW10	264579.5	264,579.5	—	—
IW6	369153.3	371,068.7	373,019.5	374,392.3
IW8	226260.2	226,260.2	—	—
IW11	(8)=8 386155.4	386,955.5	387,976.0	388604.5
IW9	283770.9	285,952.5	287,460.3	288516.0
IW21	246262.7	246262.6	248,259.2	249788.2
IW14	427455.9	427455.8	—	—
IW12	239564.6	239564.6	—	—
IW22	297025.4	297,116.9	297,129.7	297175.2
IW1	210292.3	211,721.3	216,980.9	20094.6
Extraction Wells				
16e	—	—	—	—
7e	18535.0	19,080.9	19,682.0	20092.4
5e	—	—	—	—
13e	308892.6	313,226.5	322,118.2	327906.0
23e	—	—	—	—
3e	460267.6	464161.0	470,093.7	474350.4
Pressure Notes:				

BSC Totalizer Readings				
Injection Wells	Date: 7/14/25	Date: 7/21/25	Date: 07/28/25	Date: 8/4/25
IW2	—	—	—	—
IW4	145706.1	145707.5	596.8 *	1214.6
IW18	203525.5	204445.2	205294.9	205923
IW10	—	—	—	—
IW6	375794.2	377653.7	378414.8	379517.7
IW8	—	—	—	—
IW11	389190.6	390034.5	390810.0	391616.7
IW9	289388.5	290588.5	291374.2	292076.2
IW21	250861.1	252367.4	252997.9	253053.1
IW14	—	—	—	—
IW12	—	—	—	—
IW22	297381.0	297845.5	298370.4	299002.7
IW1	221264.6	223035.0	223659.1	224371.5
Extraction Wells				
16e	—	—	—	—
7e	20315.0	20688.6	20900.3	21070.7
5e	—	—	—	—
13e	332003.0	337507.3	340918.4	343861.5
23e	—	—	—	—
3e	477315.0	481152.5	483240.7	484982.0
Pressure Notes:	*New totalizer installed			

BSC Totalizer Readings				
Injection Wells	Date: 8/11/25	Date: 9/24/25	Date: 10/2/25	Date: 10/6/25
IW2	—	168807.3	169170.7	[illegible] 169750.5
IW4	2128.6	3809.8	4003.9	4520.2
IW18	206725.6	—	—	—
IW10	—	—	—	—
IW6	380826.2	—	—	—
IW8	—	226263.4	226955.4	227995.4
IW11	392511.9	—	—	—
IW9	292921.8	—	—	—
IW21	253053.2	—	—	—
IW14	—	—	—	—
IW12	—	—	—	—
IW22	296650.7	300988.9	301434.3	302178.0
IW1	225128.6	226476.8	226635.9	227505.6
Extraction Wells				
16e	—	—	—	—
7e	21262.5	—	—	—
5e	—	—	—	—
13e	347293.1	—	—	—
23e	—	—	—	—
3e	486806.0	490268.5	492246.2	495304.0
Pressure Notes:				

BSC Totalizer Readings				
Injection Wells	Date: 10/12/25	Date: 10/20/25	Date: 11/17/25	Date: 11/24/25
IW2	170125.3	170700.9	171741.7	172252.3
IW4	4528.0	4579.6	4998.8	5188.8
IW18	—	—	—	—
IW10	—	—	—	—
IW6	—	—	—	—
IW8	228397.4	228892.8	229586.0	230214.0
IW11	—	—	—	—
IW9	—	—	—	—
IW21	—	—	—	—
IW14	—	—	—	—
IW12	—	—	—	—
IW22	302458.3	302894.3	303633.0	303976.0
IW1	227968.0	228738.2	230094.6	230752.2
Extraction Wells				
16e	—	—	—	—
7e	—	—	—	—
5e	—	—	—	—
13e	—	—	—	—
23e	—	—	—	—
3e	4967522	498908.0	502962.3	505230.0
Pressure Notes:				

BSC Totalizer Readings				
Injection Wells	Date: 12/1/25	Date: 12/8/25	Date: 12/15/25	Date: 12/22/25
IW2	172760.3	173394.3	173856.5	174327.0
IW4	5444.9	5875.9	6198.6	6505.2
IW18	—	—	—	—
IW10	—	—	—	—
IW6	—	—	—	—
IW8	230860.4	231817.6	232707.8	233677.1
IW11	—	—	—	—
IW9	—	—	—	—
IW21	—	—	—	—
IW14	—	—	—	—
IW12	—	—	—	—
IW22	304320.4	304781.3	305136.0	305515.0
IW1	231402.3	232174.9	232878.6	233482.0
Extraction Wells				
16e	—	—	—	—
7e	—	—	—	—
5e	—	—	—	—
13e	—	—	—	—
23e	—	—	—	—
3e	507609.9	507767.4	513400.0	516190.0
Pressure Notes:				

BSC Totalizer Readings				
Injection Wells	Date: 12/29/25	Date:	Date:	Date:
IW2	174802.1			
IW4	6785.4			
IW18	—			
IW10	—			
IW6	—			
IW8	234585.3			
IW11	—			
IW9	—			
IW21	—			
IW14	—			
IW12	—			
IW22	305860.5			
IW1	234180.7			
Extraction Wells				
16e	—			
7e	—			
5e	—			
13e	—			
23e	—			
3e	518524.7			
Pressure Notes:				

Attachment 2
Laboratory Analytical Reports

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

May 23, 2025

Gabe Cisneros
Floyd & Snider
601 Union Street, Suite 600
Seattle, WA 98101

Re: Analytical Data for Project Task 4
Laboratory Reference No. 2505-046

Dear Gabe:

Enclosed are the analytical results and associated quality control data for samples submitted on May 5, 2025.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 23, 2025
Samples Submitted: May 5, 2025
Laboratory Reference: 2505-046
Project: Task 4

Case Narrative

Samples were collected on May 5, 2025 and received by the laboratory on May 5, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 23, 2025
Samples Submitted: May 5, 2025
Laboratory Reference: 2505-046
Project: Task 4

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-34-050525**					
Laboratory ID:	05-046-01					
Vinyl Chloride	0.65	0.20	EPA 8260D	5-7-25	5-7-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	0.32	0.20	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	0.42	0.20	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	0.58	0.20	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**MW-4R-050525**					
Laboratory ID:	05-046-02					
Vinyl Chloride	81	2.0	EPA 8260D	5-7-25	5-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	240	2.0	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	5.0	2.0	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	8.3	2.0	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**MW-21R-050525**					
Laboratory ID:	05-046-03					
Vinyl Chloride	0.23	0.20	EPA 8260D	5-7-25	5-7-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	2.4	0.20	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	1.1	0.20	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	3.6	0.20	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*96*	*78-117*				

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Date of Report: May 23, 2025
Samples Submitted: May 5, 2025
Laboratory Reference: 2505-046
Project: Task 4

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-5R-050525**					
Laboratory ID:	05-046-04					
Vinyl Chloride (SIM)	0.47	0.20	EPA 8260D/SIM	5-7-25	5-7-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	9.3	1.0	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	16	1.0	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	87	1.0	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*101*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**5-MW-5R-050525**					
Laboratory ID:	05-046-05					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	5-9-25	5-9-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	5-9-25	5-9-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	5-9-25	5-9-25	
(cis) 1,2-Dichloroethene	3.3	2.0	EPA 8260D	5-9-25	5-9-25	
Trichloroethene	2.8	2.0	EPA 8260D	5-9-25	5-9-25	
Tetrachloroethene	420	2.0	EPA 8260D	5-9-25	5-9-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				
Client ID:	**HZ-MW-15D-050525**					
Laboratory ID:	05-046-06					
Vinyl Chloride (SIM)	0.49	0.40	EPA 8260D/SIM	5-9-25	5-9-25	
1,1-Dichloroethene	ND	4.0	EPA 8260D	5-9-25	5-9-25	
(trans) 1,2-Dichloroethene	ND	4.0	EPA 8260D	5-9-25	5-9-25	
(cis) 1,2-Dichloroethene	240	4.0	EPA 8260D	5-9-25	5-9-25	
Trichloroethene	590	4.0	EPA 8260D	5-9-25	5-9-25	
Tetrachloroethene	1000	4.0	EPA 8260D	5-9-25	5-9-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				

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Date of Report: May 23, 2025
Samples Submitted: May 5, 2025
Laboratory Reference: 2505-046
Project: Task 4

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EFF-050525**					
Laboratory ID:	05-046-07					
Vinyl Chloride	0.38	0.20	EPA 8260D	5-7-25	5-7-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**BKTH1-050525**					
Laboratory ID:	05-046-08					
Vinyl Chloride	13	0.20	EPA 8260D	5-7-25	5-7-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	4.3	0.20	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	1.6	0.20	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**BKTH2-050525**					
Laboratory ID:	05-046-09					
Vinyl Chloride	11	0.20	EPA 8260D	5-7-25	5-7-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	7.5	0.20	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	0.89	0.20	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	9.0	0.20	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				

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Date of Report: May 23, 2025
Samples Submitted: May 5, 2025
Laboratory Reference: 2505-046
Project: Task 4

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**INF-050525**					
Laboratory ID:	05-046-10					
Vinyl Chloride	14	2.0	EPA 8260D	5-7-25	5-7-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	94	2.0	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	19	2.0	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	120	2.0	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**MW-45R-050525**					
Laboratory ID:	05-046-11					
Vinyl Chloride	1.9	0.20	EPA 8260D	5-7-25	5-7-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	0.43	0.20	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**HZ-MW-155-050525**					
Laboratory ID:	05-046-12					
Vinyl Chloride	0.38	0.20	EPA 8260D	5-7-25	5-7-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	15	0.20	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	6.1	0.20	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	4.8	0.20	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				

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Date of Report: May 23, 2025
Samples Submitted: May 5, 2025
Laboratory Reference: 2505-046
Project: Task 4

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank-050525**					
Laboratory ID:	05-046-13					
Vinyl Chloride	ND	0.20	EPA 8260D	5-7-25	5-7-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*96*	*78-117*				

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Date of Report: May 23, 2025
Samples Submitted: May 5, 2025
Laboratory Reference: 2505-046
Project: Task 4

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0507W2					
Vinyl Chloride	ND	0.20	EPA 8260D	5-7-25	5-7-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Laboratory ID:	MB0509W2					
Vinyl Chloride	ND	0.20	EPA 8260D	5-9-25	5-9-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-9-25	5-9-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-9-25	5-9-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-9-25	5-9-25	
Trichloroethene	ND	0.20	EPA 8260D	5-9-25	5-9-25	
Tetrachloroethene	ND	0.20	EPA 8260D	5-9-25	5-9-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*68-133*				
Toluene-d8	*101*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				

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and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 23, 2025
Samples Submitted: May 5, 2025
Laboratory Reference: 2505-046
Project: Task 4

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	05-092-10										
	MS	MSD	MS	MSD		MS	MSD				
Vinyl Chloride	**10.7**	**11.0**	10.0	10.0	ND	107	110	69-126	3	16	
1,1-Dichloroethene	**10.6**	**10.9**	10.0	10.0	ND	106	109	73-125	3	15	
(trans) 1,2-Dichloroethene	**10.6**	**10.8**	10.0	10.0	ND	106	108	70-127	2	16	
(cis) 1,2-Dichloroethene	**10.8**	**11.2**	10.0	10.0	ND	108	112	71-130	4	16	
Trichloroethene	**10.8**	**11.0**	10.0	10.0	ND	108	110	74-134	2	12	
Tetrachloroethene	**13.4**	**13.8**	10.0	10.0	3.3	101	105	78-132	3	22	
Surrogate:											
Dibromofluoromethane						*101*	*99*	*68-133*			
Toluene-d8						*102*	*101*	*79-123*			
4-Bromofluorobenzene						*102*	*103*	*78-117*			
SPIKE BLANKS											
Laboratory ID:	SB0507W2										
	SB	SBD	SB	SBD		SB	SBD				
Vinyl Chloride	**9.56**	**9.12**	10.0	10.0		96	91	67-131	5	16	
1,1-Dichloroethene	**10.9**	**10.5**	10.0	10.0		109	105	77-125	4	15	
(trans) 1,2-Dichloroethene	**11.2**	**11.0**	10.0	10.0		112	110	76-126	2	15	
(cis) 1,2-Dichloroethene	**11.5**	**11.2**	10.0	10.0		115	112	77-129	3	15	
Trichloroethene	**11.8**	**11.5**	10.0	10.0		118	115	80-130	3	15	
Tetrachloroethene	**11.7**	**11.4**	10.0	10.0		117	114	80-130	3	20	
Surrogate:											
Dibromofluoromethane						*97*	*97*	*68-133*			
Toluene-d8						*101*	*102*	*79-123*			
4-Bromofluorobenzene						*101*	*101*	*78-117*			

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Date of Report: May 23, 2025
Samples Submitted: May 5, 2025
Laboratory Reference: 2505-046
Project: Task 4

DISSOLVED METALS
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-34-050525**					
Laboratory ID:	05-046-01					
Iron	**2000**	56	EPA 6010D		5-6-25	
Manganese	**320**	11	EPA 6010D		5-6-25	
Client ID:	**MW-4R-050525**					
Laboratory ID:	05-046-02					
Iron	**16000**	56	EPA 6010D		5-6-25	
Manganese	**4000**	11	EPA 6010D		5-6-25	
Client ID:	**MW-21R-050525**					
Laboratory ID:	05-046-03					
Iron	**1700**	56	EPA 6010D		5-6-25	
Manganese	**3300**	11	EPA 6010D		5-6-25	
Client ID:	**MW-5R-050525**					
Laboratory ID:	05-046-04					
Iron	**2000**	56	EPA 6010D		5-6-25	
Manganese	**1600**	11	EPA 6010D		5-6-25	
Client ID:	**5-MW-5R-050525**					
Laboratory ID:	05-046-05					
Iron	**ND**	56	EPA 6010D		5-6-25	
Manganese	**55**	11	EPA 6010D		5-6-25	
Client ID:	**HZ-MW-15D-050525**					
Laboratory ID:	05-046-06					
Iron	**340**	56	EPA 6010D		5-6-25	
Manganese	**340**	11	EPA 6010D		5-6-25	
Client ID:	**MW-45R-050525**					
Laboratory ID:	05-046-11					
Iron	**8600**	56	EPA 6010D		5-6-25	
Manganese	**5400**	11	EPA 6010D		5-6-25	

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and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 23, 2025
Samples Submitted: May 5, 2025
Laboratory Reference: 2505-046
Project: Task 4

DISSOLVED METALS
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-155-050525**					
Laboratory ID:	05-046-12					
Iron	**3500**	56	EPA 6010D		5-6-25	
Manganese	**1300**	11	EPA 6010D		5-6-25	

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Date of Report: May 23, 2025
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Project: Task 4

DISSOLVED METALS
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0506D1					
Iron	**ND**	56	EPA 6010D		5-6-25	
Manganese	**ND**	11	EPA 6010D		5-6-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	05-046-06										
	ORIG	DUP									
Iron	**342**	**350**	NA	NA		NA		NA	2	20	
Manganese	**338**	**337**	NA	NA		NA		NA	0	20	
MATRIX SPIKES											
Laboratory ID:	05-046-06										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**23200**	**22600**	22200	22200	342	**103**	**100**	75-125	2	20	
Manganese	**851**	**838**	556	556	338	**92**	**90**	75-125	1	20	
SPIKE BLANK											
Laboratory ID:	SB0506D1										
Iron	**22600**		22200		N/A	**102**		80-120			
Manganese	**521**		556		N/A	**94**		80-120			

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Date of Report: May 23, 2025
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Project: Task 4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-34-050525**					
Laboratory ID:	05-046-01					
Ammonia	**ND**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**MW-4R-050525**					
Laboratory ID:	05-046-02					
Ammonia	**ND**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**MW-21R-050525**					
Laboratory ID:	05-046-03					
Ammonia	**ND**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**MW-5R-050525**					
Laboratory ID:	05-046-04					
Ammonia	**ND**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**5-MW-5R-050525**					
Laboratory ID:	05-046-05					
Ammonia	**ND**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**HZ-MW-15D-050525**					
Laboratory ID:	05-046-06					
Ammonia	**ND**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**MW-45R-050525**					
Laboratory ID:	05-046-11					
Ammonia	**0.35**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**HZ-MW-155-050525**					
Laboratory ID:	05-046-12					
Ammonia	**ND**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	

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Project: Task 4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0507W2					
Ammonia	**ND**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-046-01							
	ORIG DUP							
Ammonia	**ND** **ND**	NA	NA	NA	NA	NA	15	
MATRIX SPIKE								
Laboratory ID:	05-046-01							
	MS	MS		MS				
Ammonia	**4.61**	5.00	ND	92	76-114	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0507W2							
	SB	SB		SB				
Ammonia	**4.92**	5.00	NA	98	81-110	NA	NA	

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TOTAL ORTHOPHOSPHATE
EPA 365.1

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-34-050525**					
Laboratory ID:	05-046-01					
Orthophosphate	**0.030**	0.012	EPA 365.1	5-6-25	5-6-25	
Client ID:	**MW-4R-050525**					
Laboratory ID:	05-046-02					
Orthophosphate	**0.16**	0.012	EPA 365.1	5-6-25	5-6-25	
Client ID:	**MW-21R-050525**					
Laboratory ID:	05-046-03					
Orthophosphate	**0.055**	0.012	EPA 365.1	5-6-25	5-6-25	
Client ID:	**MW-5R-050525**					
Laboratory ID:	05-046-04					
Orthophosphate	**0.10**	0.012	EPA 365.1	5-6-25	5-6-25	
Client ID:	**5-MW-5R-050525**					
Laboratory ID:	05-046-05					
Orthophosphate	**0.22**	0.012	EPA 365.1	5-6-25	5-6-25	
Client ID:	**HZ-MW-15D-050525**					
Laboratory ID:	05-046-06					
Orthophosphate	**0.30**	0.012	EPA 365.1	5-6-25	5-6-25	
Client ID:	**MW-45R-050525**					
Laboratory ID:	05-046-11					
Orthophosphate	**0.021**	0.012	EPA 365.1	5-6-25	5-6-25	
Client ID:	**HZ-MW-155-050525**					
Laboratory ID:	05-046-12					
Orthophosphate	**0.056**	0.012	EPA 365.1	5-6-25	5-6-25	

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Date of Report: May 23, 2025
Samples Submitted: May 5, 2025
Laboratory Reference: 2505-046
Project: Task 4

TOTAL ORTHOPHOSPHATE
EPA 365.1
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0506W1					
Orthophosphate	**ND**	0.012	EPA 365.1	5-6-25	5-6-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	05-046-01								
	ORIG	DUP							
Orthophosphate	**0.0303**	**0.0317**	NA	NA	NA	NA	5	18	
MATRIX SPIKE									
Laboratory ID:	05-046-01								
	MS		MS		MS				
Orthophosphate	**0.285**		0.250	0.0303	102	81-112	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0506W1								
	SB		SB		SB				
Orthophosphate	**0.241**		0.250	NA	96	78-110	NA	NA	

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Laboratory Reference: 2505-046
Project: Task 4

SULFATE
ASTM D516-16

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-34-050525**					
Laboratory ID:	05-046-01					
Sulfate	**37**	10	ASTM D516-16	5-9-25	5-9-25	
Client ID:	**MW-4R-050525**					
Laboratory ID:	05-046-02					
Sulfate	**ND**	5.0	ASTM D516-16	5-9-25	5-9-25	
Client ID:	**MW-21R-050525**					
Laboratory ID:	05-046-03					
Sulfate	**34**	10	ASTM D516-16	5-9-25	5-9-25	
Client ID:	**MW-5R-050525**					
Laboratory ID:	05-046-04					
Sulfate	**23**	5.0	ASTM D516-16	5-9-25	5-9-25	
Client ID:	**5-MW-5R-050525**					
Laboratory ID:	05-046-05					
Sulfate	**24**	10	ASTM D516-16	5-9-25	5-9-25	
Client ID:	**HZ-MW-15D-050525**					
Laboratory ID:	05-046-06					
Sulfate	**14**	5.0	ASTM D516-16	5-9-25	5-9-25	
Client ID:	**MW-45R-050525**					
Laboratory ID:	05-046-11					
Sulfate	**ND**	5.0	ASTM D516-16	5-9-25	5-9-25	
Client ID:	**HZ-MW-155-050525**					
Laboratory ID:	05-046-12					
Sulfate	**18**	5.0	ASTM D516-16	5-9-25	5-9-25	

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Project: Task 4

SULFATE
ASTM D516-16
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0509W1					
Sulfate	**ND**	5.0	ASTM D516-16	5-9-25	5-9-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	05-101-01								
	ORIG	DUP							
Sulfate	**83.4**	**84.2**	NA	NA	NA	NA	1	11	
MATRIX SPIKE									
Laboratory ID:	05-101-01								
	MS		MS		MS				
Sulfate	**180**		100	83.4	97	70-131	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0509W1								
	SB		SB		SB				
Sulfate	**8.83**		10.0	NA	88	83-113	NA	NA	

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Project: Task 4

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-34-050525**					
Laboratory ID:	05-046-01					
Nitrate	**ND**	0.050	EPA 353.2	5-6-25	5-6-25	
Client ID:	**MW-4R-050525**					
Laboratory ID:	05-046-02					
Nitrate	**ND**	0.050	EPA 353.2	5-6-25	5-6-25	
Client ID:	**MW-21R-050525**					
Laboratory ID:	05-046-03					
Nitrate	**ND**	0.050	EPA 353.2	5-6-25	5-6-25	
Client ID:	**MW-5R-050525**					
Laboratory ID:	05-046-04					
Nitrate	**ND**	0.050	EPA 353.2	5-6-25	5-6-25	
Client ID:	**5-MW-5R-050525**					
Laboratory ID:	05-046-05					
Nitrate	**1.4**	0.050	EPA 353.2	5-6-25	5-6-25	
Client ID:	**HZ-MW-15D-050525**					
Laboratory ID:	05-046-06					
Nitrate	**ND**	0.050	EPA 353.2	5-6-25	5-6-25	
Client ID:	**MW-45R-050525**					
Laboratory ID:	05-046-11					
Nitrate	**ND**	0.050	EPA 353.2	5-6-25	5-6-25	
Client ID:	**HZ-MW-155-050525**					
Laboratory ID:	05-046-12					
Nitrate	**ND**	0.050	EPA 353.2	5-6-25	5-6-25	

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Date of Report: May 23, 2025
Samples Submitted: May 5, 2025
Laboratory Reference: 2505-046
Project: Task 4

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0506W1					
Nitrate	**ND**	0.050	EPA 353.2	5-6-25	5-6-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	05-046-01								
	ORIG	DUP							
Nitrate	**ND**	**ND**	NA	NA	NA	NA	NA	22	
MATRIX SPIKE									
Laboratory ID:	05-046-01								
	MS		MS		MS				
Nitrate	**2.17**		2.00	ND	109	74-130	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0506W1								
	SB		SB		SB				
Nitrate	**2.17**		2.00	NA	109	82-128	NA	NA	

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Date of Report: May 23, 2025
Samples Submitted: May 5, 2025
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Project: Task 4

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-34-050525**					
Laboratory ID:	05-046-01					
Methane	**5.8**	0.55	RSK 175	5-6-25	5-6-25	
Ethane	**ND**	0.56	RSK 175	5-6-25	5-6-25	
Ethene	**ND**	0.58	RSK 175	5-6-25	5-6-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*130*	*50-150*				
Client ID:	**MW-4R-050525**					
Laboratory ID:	05-046-02					
Methane	**3100**	33	RSK 175	5-6-25	5-6-25	
Ethane	**ND**	0.56	RSK 175	5-6-25	5-6-25	
Ethene	**4.1**	0.58	RSK 175	5-6-25	5-6-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*126*	*50-150*				
Client ID:	**MW-21R-050525**					
Laboratory ID:	05-046-03					
Methane	**230**	2.8	RSK 175	5-6-25	5-6-25	
Ethane	**ND**	0.56	RSK 175	5-6-25	5-6-25	
Ethene	**ND**	0.58	RSK 175	5-6-25	5-6-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*133*	*50-150*				
Client ID:	**MW-5R-050525**					
Laboratory ID:	05-046-04					
Methane	**2300**	33	RSK 175	5-6-05	5-6-05	
Ethane	**ND**	0.56	RSK 175	5-6-25	5-6-25	
Ethene	**ND**	0.58	RSK 175	5-6-25	5-6-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*134*	*50-150*				
Client ID:	**5-MW-5R-050525**					
Laboratory ID:	05-046-05					
Methane	**15**	0.55	RSK 175	5-6-25	5-6-25	
Ethane	**ND**	0.56	RSK 175	5-6-25	5-6-25	
Ethene	**ND**	0.58	RSK 175	5-6-25	5-6-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*125*	*50-150*				

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Date of Report: May 23, 2025
Samples Submitted: May 5, 2025
Laboratory Reference: 2505-046
Project: Task 4

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-15D-050525**					
Laboratory ID:	05-046-06					
Methane	**930**	11	RSK 175	5-6-25	5-6-25	
Ethane	**ND**	0.56	RSK 175	5-6-25	5-6-25	
Ethene	**ND**	0.58	RSK 175	5-6-25	5-6-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*128*	*50-150*				
Client ID:	**MW-45R-050525**					
Laboratory ID:	05-046-11					
Methane	**2200**	33	RSK 175	5-6-25	5-6-25	
Ethane	**ND**	0.56	RSK 175	5-6-25	5-6-25	
Ethene	**ND**	0.58	RSK 175	5-6-25	5-6-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*125*	*50-150*				
Client ID:	**HZ-MW-155-050525**					
Laboratory ID:	05-046-12					
Methane	**190**	2.8	RSK 175	5-6-25	5-6-25	
Ethane	**ND**	0.56	RSK 175	5-6-25	5-6-25	
Ethene	**ND**	0.58	RSK 175	5-6-25	5-6-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*111*	*50-150*				

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Date of Report: May 23, 2025
Samples Submitted: May 5, 2025
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Project: Task 4

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0506W1					
Methane	**ND**	0.55	RSK 175	5-6-25	5-6-25	
Ethane	**ND**	0.56	RSK 175	5-6-25	5-6-25	
Ethene	**ND**	0.58	RSK 175	5-6-25	5-6-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*132*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0506W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**33.6**	**39.2**	44.2	44.2	76	89	75-125	15	25	
Ethane	**64.3**	**75.6**	83.2	83.2	77	91	75-125	16	25	
Ethene	**71.3**	**82.4**	77.7	77.7	92	106	75-125	14	25	
Surrogate:										
1-Butene					*83*	*96*	*50-150*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 23, 2025
Samples Submitted: May 5, 2025
Laboratory Reference: 2505-046
Project: Task 4

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-34-050525**					
Laboratory ID:	05-046-01					
Total Organic Carbon	**1.9**	1.0	SM 5310B	5-20-25	5-20-25	
Client ID:	**MW-4R-050525**					
Laboratory ID:	05-046-02					
Total Organic Carbon	**22**	1.0	SM 5310B	5-20-25	5-20-25	
Client ID:	**MW-21R-050525**					
Laboratory ID:	05-046-03					
Total Organic Carbon	**6.0**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**MW-5R-050525**					
Laboratory ID:	05-046-04					
Total Organic Carbon	**2.8**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**5-MW-5R-050525**					
Laboratory ID:	05-046-05					
Total Organic Carbon	**ND**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**HZ-MW-15D-050525**					
Laboratory ID:	05-046-06					
Total Organic Carbon	**1.3**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**MW-45R-050525**					
Laboratory ID:	05-046-11					
Total Organic Carbon	**12**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**HZ-MW-155-050525**					
Laboratory ID:	05-046-12					
Total Organic Carbon	**4.5**	1.0	SM 5310B	5-20-25	5-21-25	

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and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 23, 2025
Samples Submitted: May 5, 2025
Laboratory Reference: 2505-046
Project: Task 4

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0520W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	5-20-25	5-20-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	05-101-01								
	ORIG	DUP							
Total Organic Carbon	**1.67**	**1.66**	NA	NA	NA	NA	1	10	
MATRIX SPIKE									
Laboratory ID:	05-101-01								
	MS		MS		MS				
Total Organic Carbon	**11.3**		10.0	1.67	96	70-136	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0520W1								
	SB		SB		SB				
Total Organic Carbon	**11.0**		10.0	NA	110	83-130	NA	NA	

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

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

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Chain of Custody

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

Company: Floyd|Snider
Project Number: Task 4
Project Name: COB-Service Center
Project Manager: Gabe Cisneros
Sampled by: Danielle Gallagher

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

Laboratory Number: 05-046

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260 ★	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	~~Total RCRA Metals~~ P,Fe,Mn+Fe	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Ammonia	OP/504/NO3	MEE RSK 175	TOC	% Moisture
1	MW-34-050525	5/5/25	11:05	GW	9					X									X				X	X	X	X	
2	MW-4R-050525		12:12		9					X									X				X	X	X	X	
3	MW-21R-050525		12:15		9					X									X				X	X	X	X	
4	MW-5R-050525		14:05		9					X									X				X	X	X	X	
5	S-MW-5R-050525		14:05		9					X									X				X	X	X	X	
6	HZ-MW-15D-050525		14:15		9					X									X				X	X	X	X	
7	EFF-050525		09:50		3					X																	
8	BKTH1-050525		09:55		3					X																	
9	BKTH2-050525		10:00		3					X																	
10	INF-050525	↓	10:05	↓	3					X																	

	Signature	Company	Date	Time
Relinquished		F|S	5/5/25	15:45
Received		Specialty		4:10
Relinquished				
Received		OSE	5/5/25	1610
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
★ only PCE, TCE, cis-1,2-DCE, trans-1,2-DCE 1,1-DCE + VC

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☒ Electronic Data Deliverables (EDDs) ☒

Chain of Custody

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

Company: Floyd|Snider
Project Number: Task 4
Project Name: COB-Service Center
Project Manager: Gabe Cisneros
Sampled by: Danielle Gallagher

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

Laboratory Number: 05-046

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Ammonia	OP/504/NO3	NE RSK 175	TOC	% Moisture
11	MW-45R-050525	5/05/25	15:10	GW	9					X									X				X	X	X	X	
12	HZ-MW-15S-050525	↓	15:30	GW	9					X									X				X	X	X	X	
13	Trip Blank-050525	↓	08:00	W	2					X																		

	Signature	Company	Date	Time
Relinquished		FIS	5/5/25	15:45
Received		Speedy	5/5/25	4:10
Relinquished				
Received		OSE	5/5/25	1610
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
* Only PCE, TCE, cis-1,2-DCE, 1,1-DCE & VC
Lab results to labdata@floydsnider.com

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☒ Electronic Data Deliverables (EDDs) ☒

Sample/Cooler Receipt and Acceptance Checklist

Client: FLS

Client Project Name/Number: Task 4

OnSite Project Number: 05-046

Initiated by: JMV

Date Initiated: 5/5/25

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	(No)	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	(N/A)	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	(N/A)	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	(Yes)	No	N/A	1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	(Yes)	No	N/A	Temperature:	4.6
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	(N/A)			
1.7 How were the samples delivered?	Client	(Courier)	UPS/FedEx	OSE Pickup	Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	(Yes)	No		1 2 3 4
2.2 Was the COC legible and written in permanent ink?	(Yes)	No		1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	(Yes)	No		1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	(Yes)	No		1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	(Yes)	No		1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	(No)		1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	(No)		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	(No)		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	(Yes)	No		1 2 3 4
3.4 Have the samples been correctly preserved?	(Yes)	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	(Yes)	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	(Yes)	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	(No)		1 2 3 4
3.8 Was method 5035A used?	Yes	No	(N/A)	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		(N/A)	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

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

May 23, 2025

Gabe Cisneros
Floyd & Snider
601 Union Street, Suite 600
Seattle, WA 98101

Re: Analytical Data for Project Task 4
Laboratory Reference No. 2505-067

Dear Gabe:

Enclosed are the analytical results and associated quality control data for samples submitted on May 6, 2025.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 23, 2025
Samples Submitted: May 6, 2025
Laboratory Reference: 2505-067
Project: Task 4

Case Narrative

Samples were collected on May 6, 2025 and received by the laboratory on May 6, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 23, 2025
Samples Submitted: May 6, 2025
Laboratory Reference: 2505-067
Project: Task 4

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-14S-050625**					
Laboratory ID:	05-067-01					
Vinyl Chloride (SIM)	3.8	0.80	EPA 8260D/SIM	5-7-25	5-7-25	
1,1-Dichloroethene	ND	8.0	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	8.0	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	210	8.0	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	190	8.0	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	1400	8.0	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*68-133*				
Toluene-d8	*104*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**MW-23-050625**					
Laboratory ID:	05-067-02					
Vinyl Chloride	ND	0.20	EPA 8260D	5-7-25	5-7-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**S-MW-1-050625**					
Laboratory ID:	05-067-03					
Vinyl Chloride	ND	0.20	EPA 8260D	5-7-25	5-7-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	1.5	0.20	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*68-133*				
Toluene-d8	*104*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 23, 2025
Samples Submitted: May 6, 2025
Laboratory Reference: 2505-067
Project: Task 4

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-31-050625**					
Laboratory ID:	05-067-04					
Vinyl Chloride	58	1.0	EPA 8260D	5-7-25	5-7-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	45	0.20	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**HZ-MW-14D-050625**					
Laboratory ID:	05-067-05					
Vinyl Chloride	1.8	0.20	EPA 8260D	5-7-25	5-7-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	0.22	0.20	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	18	0.20	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	2.1	0.20	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	1.3	0.20	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*68-133*				
Toluene-d8	*106*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				
Client ID:	**MW-27-050625**					
Laboratory ID:	05-067-06					
Vinyl Chloride	ND	0.20	EPA 8260D	5-7-25	5-7-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	1.2	0.20	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	0.98	0.20	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	30	0.20	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*109*	*68-133*				
Toluene-d8	*106*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 23, 2025
Samples Submitted: May 6, 2025
Laboratory Reference: 2505-067
Project: Task 4

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-44R-050625**					
Laboratory ID:	05-067-07					
Vinyl Chloride	0.44	0.20	EPA 8260D	5-7-25	5-7-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**MW-39-050625**					
Laboratory ID:	05-067-08					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	5-7-25	5-7-25	
1,1-Dichloroethene	ND	0.80	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	0.80	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	ND	0.80	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	40	0.80	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	120	0.80	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*109*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**MW-40-050625**					
Laboratory ID:	05-067-09					
Vinyl Chloride	180	20	EPA 8260D	5-7-25	5-7-25	
1,1-Dichloroethene	85	20	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	20	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	560	20	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	3200	20	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	3100	20	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*68-133*				
Toluene-d8	*106*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 23, 2025
Samples Submitted: May 6, 2025
Laboratory Reference: 2505-067
Project: Task 4

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-140-050625**					
Laboratory ID:	05-067-10					
Vinyl Chloride	190	20	EPA 8260D	5-7-25	5-7-25	
1,1-Dichloroethene	89	20	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	20	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	540	20	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	3400	20	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	3300	20	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				
Client ID:	**MW-43R-050625**					
Laboratory ID:	05-067-11					
Vinyl Chloride	0.53	0.20	EPA 8260D	5-7-25	5-7-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	0.42	0.20	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*109*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**MW-42-050625**					
Laboratory ID:	05-067-12					
Vinyl Chloride	0.99	0.20	EPA 8260D	5-7-25	5-7-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	10	0.20	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	1.5	0.20	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	3.8	0.20	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*109*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				

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Date of Report: May 23, 2025
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Laboratory Reference: 2505-067
Project: Task 4

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-1-050625**					
Laboratory ID:	05-067-13					
Vinyl Chloride	8.8	0.20	EPA 8260D	5-7-25	5-7-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	0.34	0.20	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	8.7	0.20	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	0.47	0.20	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	0.32	0.20	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*109*	*68-133*				
Toluene-d8	*106*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**Trip Blank-050625**					
Laboratory ID:	05-067-14					
Vinyl Chloride	ND	0.20	EPA 8260D	5-7-25	5-7-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*68-133*				
Toluene-d8	*104*	*79-123*				
4-Bromofluorobenzene	*96*	*78-117*				

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Date of Report: May 23, 2025
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VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0507W1					
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	5-7-25	5-7-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Trichloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Tetrachloroethene	ND	0.20	EPA 8260D	5-7-25	5-7-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0507W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**10.0**	**10.8**	10.0	10.0	100	108	67-131	8	16	
1,1-Dichloroethene	**11.0**	**11.5**	10.0	10.0	110	115	77-125	4	15	
(trans) 1,2-Dichloroethene	**10.9**	**11.6**	10.0	10.0	109	116	76-126	6	15	
(cis) 1,2-Dichloroethene	**11.2**	**11.9**	10.0	10.0	112	119	77-129	6	15	
Trichloroethene	**10.5**	**11.1**	10.0	10.0	105	111	80-130	6	15	
Tetrachloroethene	**10.3**	**11.0**	10.0	10.0	103	110	80-130	7	20	
Surrogate:										
Dibromofluoromethane					*108*	*110*	*68-133*			
Toluene-d8					*107*	*107*	*79-123*			
4-Bromofluorobenzene					*101*	*101*	*78-117*			

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Laboratory Reference: 2505-067
Project: Task 4

DISSOLVED METALS
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-14S-050625**					
Laboratory ID:	05-067-01					
Iron	**4700**	56	EPA 6010D		5-7-25	
Manganese	**820**	11	EPA 6010D		5-7-25	
Client ID:	**MW-23-050625**					
Laboratory ID:	05-067-02					
Iron	**ND**	56	EPA 6010D		5-7-25	
Manganese	**70**	11	EPA 6010D		5-7-25	
Client ID:	**S-MW-1-050625**					
Laboratory ID:	05-067-03					
Iron	**ND**	56	EPA 6010D		5-7-25	
Manganese	**ND**	11	EPA 6010D		5-7-25	
Client ID:	**HZ-MW-31-050625**					
Laboratory ID:	05-067-04					
Iron	**24000**	56	EPA 6010D		5-7-25	
Manganese	**360**	11	EPA 6010D		5-7-25	
Client ID:	**HZ-MW-14D-050625**					
Laboratory ID:	05-067-05					
Iron	**600**	56	EPA 6010D		5-7-25	
Manganese	**670**	11	EPA 6010D		5-7-25	
Client ID:	**MW-27-050625**					
Laboratory ID:	05-067-06					
Iron	**350**	56	EPA 6010D		5-7-25	
Manganese	**1200**	11	EPA 6010D		5-7-25	
Client ID:	**MW-44R-050625**					
Laboratory ID:	05-067-07					
Iron	**9000**	56	EPA 6010D		5-7-25	
Manganese	**290**	11	EPA 6010D		5-7-25	

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DISSOLVED METALS
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-39-050625**					
Laboratory ID:	05-067-08					
Iron	**6400**	56	EPA 6010D		5-7-25	
Manganese	**150**	11	EPA 6010D		5-7-25	
Client ID:	**MW-40-050625**					
Laboratory ID:	05-067-09					
Iron	**25000**	56	EPA 6010D		5-7-25	
Manganese	**390**	11	EPA 6010D		5-7-25	
Client ID:	**MW-140-050625**					
Laboratory ID:	05-067-10					
Iron	**26000**	56	EPA 6010D		5-7-25	
Manganese	**390**	11	EPA 6010D		5-7-25	
Client ID:	**MW-43R-050625**					
Laboratory ID:	05-067-11					
Iron	**16000**	56	EPA 6010D		5-7-25	
Manganese	**300**	11	EPA 6010D		5-7-25	
Client ID:	**MW-42-050625**					
Laboratory ID:	05-067-12					
Iron	**3900**	56	EPA 6010D		5-7-25	
Manganese	**1400**	11	EPA 6010D		5-7-25	
Client ID:	**HZ-MW-1-050625**					
Laboratory ID:	05-067-13					
Iron	**16000**	56	EPA 6010D		5-7-25	
Manganese	**7600**	50	EPA 6010D		5-7-25	

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DISSOLVED METALS
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0507D1					
Iron	**ND**	56	EPA 6010D		5-7-25	
Manganese	**ND**	11	EPA 6010D		5-7-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	05-067-01										
	ORIG	DUP									
Iron	**4750**	**5020**	NA	NA		NA		NA	6	20	
Manganese	**819**	**873**	NA	NA		NA		NA	6	20	
MATRIX SPIKES											
Laboratory ID:	05-067-01										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**27300**	**27100**	22200	22200	4750	**102**	**101**	75-125	1	20	
Manganese	**1350**	**1340**	556	556	819	**96**	**94**	75-125	1	20	
SPIKE BLANK											
Laboratory ID:	SB0507D1										
Iron	**22700**		22200		N/A	**102**		80-120			
Manganese	**535**		556		N/A	**96**		80-120			

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Project: Task 4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-14S-050625**					
Laboratory ID:	05-067-01					
Ammonia	**0.058**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**MW-23-050625**					
Laboratory ID:	05-067-02					
Ammonia	**ND**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**S-MW-1-050625**					
Laboratory ID:	05-067-03					
Ammonia	**ND**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**HZ-MW-31-050625**					
Laboratory ID:	05-067-04					
Ammonia	**0.31**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**HZ-MW-14D-050625**					
Laboratory ID:	05-067-05					
Ammonia	**ND**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**MW-27-050625**					
Laboratory ID:	05-067-06					
Ammonia	**ND**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**MW-44R-050625**					
Laboratory ID:	05-067-07					
Ammonia	**1.7**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**MW-39-050625**					
Laboratory ID:	05-067-08					
Ammonia	**0.58**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**MW-40-050625**					
Laboratory ID:	05-067-09					
Ammonia	**1.2**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	

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Project: Task 4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-140-050625**					
Laboratory ID:	05-067-10					
Ammonia	**0.86**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**MW-43R-050625**					
Laboratory ID:	05-067-11					
Ammonia	**8.3**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**MW-42-050625**					
Laboratory ID:	05-067-12					
Ammonia	**0.062**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**HZ-MW-1-050625**					
Laboratory ID:	05-067-13					
Ammonia	**0.054**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	

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AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0507W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	05-067-01								
	ORIG	DUP							
Ammonia	**0.0582**	**0.0579**	NA	NA	NA	NA	1	15	
MATRIX SPIKE									
Laboratory ID:	05-067-01								
	MS		MS		MS				
Ammonia	**4.50**		5.00	0.0582	89	76-114	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0507W1								
	SB		SB		SB				
Ammonia	**5.12**		5.00	NA	102	81-110	NA	NA	

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TOTAL ORTHOPHOSPHATE
EPA 365.1

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-14S-050625**					
Laboratory ID:	05-067-01					
Orthophosphate	**0.085**	0.012	EPA 365.1	5-7-25	5-7-25	
Client ID:	**MW-23-050625**					
Laboratory ID:	05-067-02					
Orthophosphate	**ND**	0.012	EPA 365.1	5-7-25	5-7-25	
Client ID:	**S-MW-1-050625**					
Laboratory ID:	05-067-03					
Orthophosphate	**0.10**	0.012	EPA 365.1	5-7-25	5-7-25	
Client ID:	**HZ-MW-31-050625**					
Laboratory ID:	05-067-04					
Orthophosphate	**0.12**	0.012	EPA 365.1	5-7-25	5-7-25	
Client ID:	**HZ-MW-14D-050625**					
Laboratory ID:	05-067-05					
Orthophosphate	**0.34**	0.012	EPA 365.1	5-7-25	5-7-25	
Client ID:	**MW-27-050625**					
Laboratory ID:	05-067-06					
Orthophosphate	**ND**	0.012	EPA 365.1	5-7-25	5-7-25	
Client ID:	**MW-44R-050625**					
Laboratory ID:	05-067-07					
Orthophosphate	**0.75**	0.012	EPA 365.1	5-7-25	5-7-25	
Client ID:	**MW-39-050625**					
Laboratory ID:	05-067-08					
Orthophosphate	**0.14**	0.012	EPA 365.1	5-7-25	5-7-25	
Client ID:	**MW-40-050625**					
Laboratory ID:	05-067-09					
Orthophosphate	**0.36**	0.012	EPA 365.1	5-7-25	5-7-25	

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TOTAL ORTHOPHOSPHATE
EPA 365.1

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-140-050625**					
Laboratory ID:	05-067-10					
Orthophosphate	**0.31**	0.012	EPA 365.1	5-7-25	5-7-25	
Client ID:	**MW-43R-050625**					
Laboratory ID:	05-067-11					
Orthophosphate	**3.4**	0.048	EPA 365.1	5-7-25	5-7-25	
Client ID:	**MW-42-050625**					
Laboratory ID:	05-067-12					
Orthophosphate	**0.10**	0.012	EPA 365.1	5-7-25	5-7-25	
Client ID:	**HZ-MW-1-050625**					
Laboratory ID:	05-067-13					
Orthophosphate	**0.15**	0.012	EPA 365.1	5-7-25	5-7-25	

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TOTAL ORTHOPHOSPHATE
EPA 365.1
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0507W1					
Orthophosphate	**ND**	0.012	EPA 365.1	5-7-25	5-7-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	05-067-01								
	ORIG	DUP							
Orthophosphate	**0.0848**	**0.0858**	NA	NA	NA	NA	1	18	
MATRIX SPIKE									
Laboratory ID:	05-067-01								
	MS		MS		MS				
Orthophosphate	**0.340**		0.250	0.0848	102	81-112	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0507W1								
	SB		SB		SB				
Orthophosphate	**0.248**		0.250	NA	99	78-110	NA	NA	

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SULFATE
ASTM D516-16

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-14S-050625**					
Laboratory ID:	05-067-01					
Sulfate	**24**	10	ASTM D516-16	5-13-25	5-13-25	
Client ID:	**MW-23-050625**					
Laboratory ID:	05-067-02					
Sulfate	**11**	5.0	ASTM D516-16	5-13-25	5-13-25	
Client ID:	**S-MW-1-050625**					
Laboratory ID:	05-067-03					
Sulfate	**72**	20	ASTM D516-16	5-13-25	5-13-25	
Client ID:	**HZ-MW-31-050625**					
Laboratory ID:	05-067-04					
Sulfate	**29**	10	ASTM D516-16	5-13-25	5-13-25	
Client ID:	**HZ-MW-14D-050625**					
Laboratory ID:	05-067-05					
Sulfate	**11**	5.0	ASTM D516-16	5-13-25	5-13-25	
Client ID:	**MW-27-050625**					
Laboratory ID:	05-067-06					
Sulfate	**41**	20	ASTM D516-16	5-13-25	5-13-25	
Client ID:	**MW-44R-050625**					
Laboratory ID:	05-067-07					
Sulfate	**15**	5.0	ASTM D516-16	5-13-25	5-13-25	
Client ID:	**MW-39-050625**					
Laboratory ID:	05-067-08					
Sulfate	**11**	5.0	ASTM D516-16	5-13-25	5-13-25	
Client ID:	**MW-40-050625**					
Laboratory ID:	05-067-09					
Sulfate	**5.8**	5.0	ASTM D516-16	5-13-25	5-13-25	

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SULFATE
ASTM D516-16

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-140-050625**					
Laboratory ID:	05-067-10					
Sulfate	**6.0**	5.0	ASTM D516-16	5-13-25	5-13-25	
Client ID:	**MW-43R-050625**					
Laboratory ID:	05-067-11					
Sulfate	**ND**	5.0	ASTM D516-16	5-13-25	5-13-25	
Client ID:	**MW-42-050625**					
Laboratory ID:	05-067-12					
Sulfate	**47**	10	ASTM D516-16	5-13-25	5-13-25	
Client ID:	**HZ-MW-1-050625**					
Laboratory ID:	05-067-13					
Sulfate	**ND**	5.0	ASTM D516-16	5-13-25	5-13-25	

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Date of Report: May 23, 2025
Samples Submitted: May 6, 2025
Laboratory Reference: 2505-067
Project: Task 4

SULFATE
ASTM D516-16
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0513W1					
Sulfate	**ND**	5.0	ASTM D516-16	5-13-25	5-13-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	05-067-01								
	ORIG	DUP							
Sulfate	**24.1**	**24.0**	NA	NA	NA	NA	0	11	
MATRIX SPIKE									
Laboratory ID:	05-067-01								
	MS		MS		MS				
Sulfate	**40.8**		20.0	24.1	84	70-131	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0513W1								
	SB		SB		SB				
Sulfate	**9.24**		10.0	NA	92	83-113	NA	NA	

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Date of Report: May 23, 2025
Samples Submitted: May 6, 2025
Laboratory Reference: 2505-067
Project: Task 4

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-14S-050625**					
Laboratory ID:	05-067-01					
Nitrate	**0.055**	0.050	EPA 353.2	5-6-25	5-6-25	
Client ID:	**MW-23-050625**					
Laboratory ID:	05-067-02					
Nitrate	**14**	1.0	EPA 353.2	5-6-25	5-6-25	
Client ID:	**S-MW-1-050625**					
Laboratory ID:	05-067-03					
Nitrate	**2.2**	0.050	EPA 353.2	5-6-25	5-6-25	
Client ID:	**HZ-MW-31-050625**					
Laboratory ID:	05-067-04					
Nitrate	**0.12**	0.050	EPA 353.2	5-6-25	5-6-25	
Client ID:	**HZ-MW-14D-050625**					
Laboratory ID:	05-067-05					
Nitrate	**ND**	0.050	EPA 353.2	5-6-25	5-6-25	
Client ID:	**MW-27-050625**					
Laboratory ID:	05-067-06					
Nitrate	**0.25**	0.050	EPA 353.2	5-6-25	5-6-25	
Client ID:	**MW-44R-050625**					
Laboratory ID:	05-067-07					
Nitrate	**ND**	0.050	EPA 353.2	5-6-25	5-6-25	
Client ID:	**MW-39-050625**					
Laboratory ID:	05-067-08					
Nitrate	**ND**	0.050	EPA 353.2	5-6-25	5-6-25	
Client ID:	**MW-40-050625**					
Laboratory ID:	05-067-09					
Nitrate	**0.11**	0.050	EPA 353.2	5-6-25	5-6-25	

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Date of Report: May 23, 2025
Samples Submitted: May 6, 2025
Laboratory Reference: 2505-067
Project: Task 4

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-140-050625**					
Laboratory ID:	05-067-10					
Nitrate	**0.092**	0.050	EPA 353.2	5-6-25	5-6-25	
Client ID:	**MW-43R-050625**					
Laboratory ID:	05-067-11					
Nitrate	**0.11**	0.050	EPA 353.2	5-6-25	5-6-25	
Client ID:	**MW-42-050625**					
Laboratory ID:	05-067-12					
Nitrate	**0.36**	0.050	EPA 353.2	5-6-25	5-6-25	
Client ID:	**HZ-MW-1-050625**					
Laboratory ID:	05-067-13					
Nitrate	**0.071**	0.050	EPA 353.2	5-6-25	5-6-25	

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Date of Report: May 23, 2025
Samples Submitted: May 6, 2025
Laboratory Reference: 2505-067
Project: Task 4

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0506W2					
Nitrate	**ND**	0.050	EPA 353.2	5-6-25	5-6-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	05-067-01								
	ORIG	DUP							
Nitrate	**0.0550**	**0.0515**	NA	NA	NA	NA	7	22	
MATRIX SPIKE									
Laboratory ID:	05-067-01								
	MS		MS		MS				
Nitrate	**2.40**		2.00	0.0550	117	74-130	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0506W2								
	SB		SB		SB				
Nitrate	**2.28**		2.00	NA	114	82-128	NA	NA	

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Date of Report: May 23, 2025
Samples Submitted: May 6, 2025
Laboratory Reference: 2505-067
Project: Task 4

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-14S-050625**					
Laboratory ID:	05-067-01					
Methane	**370**	2.8	RSK 175	5-13-25	5-13-25	
Ethane	**ND**	0.56	RSK 175	5-13-25	5-13-25	
Ethene	**ND**	0.58	RSK 175	5-13-25	5-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*144*	*50-150*				
Client ID:	**MW-23-050625**					
Laboratory ID:	05-067-02					
Methane	**ND**	0.55	RSK 175	5-13-25	5-13-25	
Ethane	**ND**	0.56	RSK 175	5-13-25	5-13-25	
Ethene	**ND**	0.58	RSK 175	5-13-25	5-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*124*	*50-150*				
Client ID:	**S-MW-1-050625**					
Laboratory ID:	05-067-03					
Methane	**1.3**	0.55	RSK 175	5-13-25	5-13-25	
Ethane	**ND**	0.56	RSK 175	5-13-25	5-13-25	
Ethene	**ND**	0.58	RSK 175	5-13-25	5-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*109*	*50-150*				
Client ID:	**HZ-MW-31-050625**					
Laboratory ID:	05-067-04					
Methane	**38**	0.55	RSK 175	5-13-25	5-13-25	
Ethane	**ND**	0.56	RSK 175	5-13-25	5-13-25	
Ethene	**ND**	0.58	RSK 175	5-13-25	5-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*127*	*50-150*				
Client ID:	**HZ-MW-14D-050625**					
Laboratory ID:	05-067-05					
Methane	**22**	0.55	RSK 175	5-13-25	5-13-25	
Ethane	**ND**	0.56	RSK 175	5-13-25	5-13-25	
Ethene	**ND**	0.58	RSK 175	5-13-25	5-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*128*	*50-150*				

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Date of Report: May 23, 2025
Samples Submitted: May 6, 2025
Laboratory Reference: 2505-067
Project: Task 4

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-27-050625**					
Laboratory ID:	05-067-06					
Methane	**370**	5.5	RSK 175	5-13-25	5-13-25	
Ethane	**ND**	0.56	RSK 175	5-13-25	5-13-25	
Ethene	**ND**	0.58	RSK 175	5-13-25	5-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*126*	*50-150*				
Client ID:	**MW-44R-050625**					
Laboratory ID:	05-067-07					
Methane	**180**	2.8	RSK 175	5-13-25	5-13-25	
Ethane	**ND**	0.56	RSK 175	5-13-25	5-13-25	
Ethene	**ND**	0.58	RSK 175	5-13-25	5-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*130*	*50-150*				
Client ID:	**MW-39-050625**					
Laboratory ID:	05-067-08					
Methane	**170**	2.8	RSK 175	5-13-25	5-13-25	
Ethane	**ND**	0.56	RSK 175	5-13-25	5-13-25	
Ethene	**ND**	0.58	RSK 175	5-13-25	5-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*124*	*50-150*				
Client ID:	**MW-40-050625**					
Laboratory ID:	05-067-09					
Methane	**46**	0.55	RSK 175	5-13-25	5-13-25	
Ethane	**ND**	0.56	RSK 175	5-13-25	5-13-25	
Ethene	**36**	0.58	RSK 175	5-13-25	5-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*129*	*50-150*				
Client ID:	**MW-140-050625**					
Laboratory ID:	05-067-10					
Methane	**43**	0.55	RSK 175	5-13-25	5-13-25	
Ethane	**ND**	0.56	RSK 175	5-13-25	5-13-25	
Ethene	**33**	0.58	RSK 175	5-13-25	5-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*128*	*50-150*				

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Date of Report: May 23, 2025
Samples Submitted: May 6, 2025
Laboratory Reference: 2505-067
Project: Task 4

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-43R-050625**					
Laboratory ID:	05-067-11					
Methane	**2800**	33	RSK 175	5-13-25	5-13-25	
Ethane	**ND**	0.56	RSK 175	5-13-25	5-13-25	
Ethene	**ND**	0.58	RSK 175	5-13-25	5-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*115*	*50-150*				
Client ID:	**MW-42-050625**					
Laboratory ID:	05-067-12					
Methane	**1600**	17	RSK 175	5-13-25	5-13-25	
Ethane	**ND**	0.56	RSK 175	5-13-25	5-13-25	
Ethene	**ND**	0.58	RSK 175	5-13-25	5-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*117*	*50-150*				
Client ID:	**HZ-MW-1-050625**					
Laboratory ID:	05-067-13					
Methane	**2700**	33	RSK 175	5-13-25	5-13-25	
Ethane	**ND**	0.56	RSK 175	5-13-25	5-13-25	
Ethene	**ND**	0.58	RSK 175	5-13-25	5-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*108*	*50-150*				

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Date of Report: May 23, 2025
Samples Submitted: May 6, 2025
Laboratory Reference: 2505-067
Project: Task 4

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0513W1					
Methane	**ND**	0.55	RSK 175	5-13-25	5-13-25	
Ethane	**ND**	0.56	RSK 175	5-13-25	5-13-25	
Ethene	**ND**	0.58	RSK 175	5-13-25	5-13-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*130*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0513W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**39.3**	**40.4**	44.2	44.2	89	91	75-125	3	25	
Ethane	**75.7**	**79.1**	83.2	83.2	91	95	75-125	4	25	
Ethene	**84.5**	**88.2**	77.7	77.7	109	114	75-125	4	25	
Surrogate:										
1-Butene					*95*	*108*	*50-150*			

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Date of Report: May 23, 2025
Samples Submitted: May 6, 2025
Laboratory Reference: 2505-067
Project: Task 4

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-14S-050625**					
Laboratory ID:	05-067-01					
Total Organic Carbon	**2.0**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**MW-23-050625**					
Laboratory ID:	05-067-02					
Total Organic Carbon	**1.4**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**S-MW-1-050625**					
Laboratory ID:	05-067-03					
Total Organic Carbon	**1.4**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**HZ-MW-31-050625**					
Laboratory ID:	05-067-04					
Total Organic Carbon	**6.1**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**HZ-MW-14D-050625**					
Laboratory ID:	05-067-05					
Total Organic Carbon	**3.1**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**MW-27-050625**					
Laboratory ID:	05-067-06					
Total Organic Carbon	**1.1**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**MW-44R-050625**					
Laboratory ID:	05-067-07					
Total Organic Carbon	**7.4**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**MW-39-050625**					
Laboratory ID:	05-067-08					
Total Organic Carbon	**5.0**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**MW-40-050625**					
Laboratory ID:	05-067-09					
Total Organic Carbon	**6.3**	1.0	SM 5310B	5-20-25	5-21-25	

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Date of Report: May 23, 2025
Samples Submitted: May 6, 2025
Laboratory Reference: 2505-067
Project: Task 4

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-140-050625**					
Laboratory ID:	05-067-10					
Total Organic Carbon	**6.6**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**MW-43R-050625**					
Laboratory ID:	05-067-11					
Total Organic Carbon	**3.0**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**MW-42-050625**					
Laboratory ID:	05-067-12					
Total Organic Carbon	**3.3**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**HZ-MW-1-050625**					
Laboratory ID:	05-067-13					
Total Organic Carbon	**5.7**	1.0	SM 5310B	5-20-25	5-21-25	

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Date of Report: May 23, 2025
Samples Submitted: May 6, 2025
Laboratory Reference: 2505-067
Project: Task 4

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0520W2					
Total Organic Carbon	**ND**	1.0	SM 5310B	5-20-25	5-21-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	05-067-01								
	ORIG	DUP							
Total Organic Carbon	**2.02**	**2.10**	NA	NA	NA	NA	4	10	
MATRIX SPIKE									
Laboratory ID:	05-067-01								
	MS		MS		MS				
Total Organic Carbon	**13.1**		10.0	2.02	111	70-136	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0520W2								
	SB		SB		SB				
Total Organic Carbon	**10.4**		10.0	NA	104	83-130	NA	NA	

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

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

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Chain of Custody

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

Company: Floyd|Snider
Project Number: Task 4
Project Name: COB-Service Center
Project Manager: Gabe Cisneros
Sampled by: Danielle Gallagher

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

Laboratory Number: 05-067

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260 ~~8~~	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	~~Total RCRA Metals~~ Diss Fe+Mn	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Ammonia	OP/1504/NO3	MEE RSK 175	TOC	% Moisture
1	HZ-MW-14S-050625	5/6/25	13:40	GW	9					X									X				X	X	X	X	
2	MW-23-050625		11:45		9					X									X				X	X	X	X	
3	S-MW-1-050625		11:50		9					X									X				X	X	X	X	
4	HZ-MW-31-050625		10:10		9					X									X				X	X	X	X	
5	HZ-MW-14D-050625		13:50		9					X									X				X	X	X	X	
6	MW-27-050625		11:45		9					X									X				X	X	X	X	
7	MW-44R-050625		09:00		9					X									X				X	X	X	X	
8	MW-39-050625		10:15		9					X									X				X	X	X	X	
9	MW-40-050625		10:10		9					X									X				X	X	X	X	
10	MW-140-050625	↓	11:00	↓	9					X									X				X	X	X	X	

	Signature	Company	Date	Time
Relinquished		FIS	5/6/25	15:21
Received		Speedy	5/6/25	3:30
Relinquished		Speedy	5/6/25	3:50
Received		Speedy	5/6/25	1550
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
~~*~~ Only PCE, TCE, cis-1,2-DCE, 1,1-DCE + VC, trans-1,2-DCE
Send lab results to: labdata@floydsnider.com

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

Chain of Custody

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

Company: Floyd|Snider
Project Number: Task 4
Project Name: COB-Service Center
Project Manager: Gabe Cisneros
Sampled by: Danielle Gallagher

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

Laboratory Number: 05-067

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
11	MW-43R-050625	5/6/25	08:40	GW	9
12	MW-42-050625		08:50		9
13	HZ-MW-1-050625		14:10		9
14	Trip Blank-050625		08:00	W	2

Lab ID	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260 ★	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	~~Total RCRA Metals~~ D35FE+MW	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Ammonia	OP/504/NO3	MEE RSK 175	TOC	% Moisture
11					X									X				X	X	X	X	
12					X									X				X	X	X	X	
13					X									X				X	X	X	X	
14					X																	

	Signature	Company	Date	Time
Relinquished		FS	5/6/25	15:21
Received		Speedy	5/6/25	3:30
Relinquished		Speedy	5/6/25	3:30
Received		OSE	5/6/25	1550
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
★ Only PCE, TCE, cis-1,2-DCE, 1,1-DCE + VC, trans-1,2-DCE
Send lab results to: labdata@floydsnider.com

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

Sample/Cooler Receipt and Acceptance Checklist

Client: FLS

Client Project Name/Number: Task 4

OnSite Project Number: 05-067

Initiated by: MW

Date Initiated: 5/6/25

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	(No)	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	(N/A)	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	(N/A)	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	(Yes)	No	N/A	1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	(Yes)	No	N/A	Temperature:	6
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	(N/A)			
1.7 How were the samples delivered?	Client	(Courier)	UPS/FedEx	OSE Pickup	Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	(Yes)	No		1 2 3 4
2.2 Was the COC legible and written in permanent ink?	(Yes)	No		1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	(Yes)	No		1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	(No)		1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	(Yes)	No		1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	(No)		1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	(No)		1 2 3 4
3.2 Were any sample labels missing or illegible?	(Yes)	No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	(Yes)	No		1 2 3 4
3.4 Have the samples been correctly preserved?	(Yes)	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	(No)	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	(Yes)	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	(No)		1 2 3 4
3.8 Was method 5035A used?	Yes	No	(N/A)	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		(N/A)	1 2 3 4

Explain any discrepancies:

2.4) #3) 1 vial - 1155 on label

3.2) #12) 4 vials ID illegible

3.5) #13) 1 vial w/bubble

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

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

May 23, 2025

Gabe Cisneros
Floyd & Snider
601 Union Street, Suite 600
Seattle, WA 98101

Re: Analytical Data for Project Task 4
Laboratory Reference No. 2505-084

Dear Gabe:

Enclosed are the analytical results and associated quality control data for samples submitted on May 7, 2025.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

Case Narrative

Samples were collected on May 7, 2025 and received by the laboratory on May 7, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

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

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-29-050725**					
Laboratory ID:	05-084-01					
Vinyl Chloride	5.2	0.20	EPA 8260D	5-8-25	5-8-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
(cis) 1,2-Dichloroethene	18	0.20	EPA 8260D	5-8-25	5-8-25	
Trichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
Tetrachloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*68-133*				
Toluene-d8	*106*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**HZ-MW-34-050725**					
Laboratory ID:	05-084-02					
Vinyl Chloride	0.36	0.20	EPA 8260D	5-8-25	5-8-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
(cis) 1,2-Dichloroethene	5.1	0.20	EPA 8260D	5-8-25	5-8-25	
Trichloroethene	2.2	0.20	EPA 8260D	5-8-25	5-8-25	
Tetrachloroethene	0.55	0.20	EPA 8260D	5-8-25	5-8-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*68-133*				
Toluene-d8	*107*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**HZ-MW-24-050725**					
Laboratory ID:	05-084-03					
Vinyl Chloride	0.52	0.20	EPA 8260D	5-8-25	5-8-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
(cis) 1,2-Dichloroethene	19	0.20	EPA 8260D	5-8-25	5-8-25	
Trichloroethene	3.5	0.20	EPA 8260D	5-8-25	5-8-25	
Tetrachloroethene	4.5	0.20	EPA 8260D	5-8-25	5-8-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-33R-050725**					
Laboratory ID:	05-084-04					
Vinyl Chloride	ND	0.20	EPA 8260D	5-8-25	5-8-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
Trichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
Tetrachloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**MW-29-050725**					
Laboratory ID:	05-084-05					
Vinyl Chloride	ND	0.20	EPA 8260D	5-8-25	5-8-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
Trichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
Tetrachloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**S-MW-3RRR-050725**					
Laboratory ID:	05-084-06					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	5-8-25	5-8-25	
1,1-Dichloroethene	ND	1.0	EPA 8260D	5-8-25	5-8-25	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	5-8-25	5-8-25	
(cis) 1,2-Dichloroethene	1.5	1.0	EPA 8260D	5-8-25	5-8-25	
Trichloroethene	1.1	1.0	EPA 8260D	5-8-25	5-8-25	
Tetrachloroethene	170	1.0	EPA 8260D	5-8-25	5-8-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-26-050725**					
Laboratory ID:	05-084-07					
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	5-8-25	5-8-25	
1,1-Dichloroethene	ND	0.40	EPA 8260D	5-8-25	5-8-25	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	5-8-25	5-8-25	
(cis) 1,2-Dichloroethene	5.3	0.40	EPA 8260D	5-8-25	5-8-25	
Trichloroethene	0.65	0.40	EPA 8260D	5-8-25	5-8-25	
Tetrachloroethene	60	0.40	EPA 8260D	5-8-25	5-8-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*68-133*				
Toluene-d8	*106*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**MW-12-050725**					
Laboratory ID:	05-084-08					
Vinyl Chloride	61	2.0	EPA 8260D	5-8-25	5-8-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	5-8-25	5-8-25	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	5-8-25	5-8-25	
(cis) 1,2-Dichloroethene	390	2.0	EPA 8260D	5-8-25	5-8-25	
Trichloroethene	27	2.0	EPA 8260D	5-8-25	5-8-25	
Tetrachloroethene	7.7	2.0	EPA 8260D	5-8-25	5-8-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**MW-7-050725**					
Laboratory ID:	05-084-09					
Vinyl Chloride	11	0.40	EPA 8260D	5-8-25	5-8-25	
1,1-Dichloroethene	ND	0.40	EPA 8260D	5-8-25	5-8-25	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	5-8-25	5-8-25	
(cis) 1,2-Dichloroethene	55	0.40	EPA 8260D	5-8-25	5-8-25	
Trichloroethene	2.0	0.40	EPA 8260D	5-8-25	5-8-25	
Tetrachloroethene	1.8	0.40	EPA 8260D	5-8-25	5-8-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*68-133*				
Toluene-d8	*106*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-107-050725**					
Laboratory ID:	05-084-10					
Vinyl Chloride	13	0.40	EPA 8260D	5-8-25	5-8-25	
1,1-Dichloroethene	ND	0.40	EPA 8260D	5-8-25	5-8-25	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	5-8-25	5-8-25	
(cis) 1,2-Dichloroethene	79	0.40	EPA 8260D	5-8-25	5-8-25	
Trichloroethene	5.1	0.40	EPA 8260D	5-8-25	5-8-25	
Tetrachloroethene	10	0.40	EPA 8260D	5-8-25	5-8-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**MW-11-050725**					
Laboratory ID:	05-084-11					
Vinyl Chloride	17	0.20	EPA 8260D	5-8-25	5-8-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
(cis) 1,2-Dichloroethene	3.4	0.20	EPA 8260D	5-8-25	5-8-25	
Trichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
Tetrachloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**MW-6-050725**					
Laboratory ID:	05-084-12					
Vinyl Chloride	3.8	0.20	EPA 8260D	5-8-25	5-8-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
(cis) 1,2-Dichloroethene	1.2	0.20	EPA 8260D	5-8-25	5-8-25	
Trichloroethene	0.49	0.20	EPA 8260D	5-8-25	5-8-25	
Tetrachloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*68-133*				
Toluene-d8	*106*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

VOLATILE ORGANICS EPA 8260D/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-20R-050725**					
Laboratory ID:	05-084-13					
Vinyl Chloride	100	0.80	EPA 8260D	5-8-25	5-8-25	
1,1-Dichloroethene	13	0.80	EPA 8260D	5-8-25	5-8-25	
(trans) 1,2-Dichloroethene	2.6	0.80	EPA 8260D	5-8-25	5-8-25	
(cis) 1,2-Dichloroethene	40	0.80	EPA 8260D	5-8-25	5-8-25	
Trichloroethene	66	0.80	EPA 8260D	5-8-25	5-8-25	
Tetrachloroethene	65	0.80	EPA 8260D	5-8-25	5-8-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*68-133*				
Toluene-d8	*106*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**S-MW-2RR-050725**					
Laboratory ID:	05-084-14					
Vinyl Chloride	ND	0.20	EPA 8260D	5-8-25	5-8-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
Trichloroethene	0.25	0.20	EPA 8260D	5-8-25	5-8-25	
Tetrachloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**Trip Blank-050725**					
Laboratory ID:	05-084-15					
Vinyl Chloride	ND	0.20	EPA 8260D	5-8-25	5-8-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
Trichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
Tetrachloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*68-133*				
Toluene-d8	*106*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0508W1					
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	5-8-25	5-8-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
Trichloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
Tetrachloroethene	ND	0.20	EPA 8260D	5-8-25	5-8-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				

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Laboratory Reference: 2505-084
Project: Task 4

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	05-071-01										
	MS	MSD	MS	MSD		MS	MSD				
Vinyl Chloride	**10.9**	**9.80**	10.0	10.0	ND	109	98	69-126	11	16	
1,1-Dichloroethene	**11.7**	**10.7**	10.0	10.0	ND	117	107	73-125	9	15	
(trans) 1,2-Dichloroethene	**11.7**	**10.6**	10.0	10.0	ND	117	106	70-127	10	16	
(cis) 1,2-Dichloroethene	**12.0**	**10.8**	10.0	10.0	ND	120	108	71-130	11	16	
Trichloroethene	**11.2**	**10.1**	10.0	10.0	ND	112	101	74-134	10	12	
Tetrachloroethene	**10.8**	**9.92**	10.0	10.0	ND	108	99	78-132	8	22	
Surrogate:											
Dibromofluoromethane						*107*	*108*	*68-133*			
Toluene-d8						*107*	*106*	*79-123*			
4-Bromofluorobenzene						*101*	*99*	*78-117*			

Analyte	Result	Spike Level	Percent Recovery	Recovery Limits	Flags
SPIKE BLANK					
Laboratory ID:	SB0508W1				
Vinyl Chloride	**10.4**	10.0	104	67-131	
1,1-Dichloroethene	**11.1**	10.0	111	77-125	
(trans) 1,2-Dichloroethene	**11.0**	10.0	110	76-126	
(cis) 1,2-Dichloroethene	**11.3**	10.0	113	77-129	
Trichloroethene	**10.4**	10.0	104	80-130	
Tetrachloroethene	**10.2**	10.0	102	80-130	
Surrogate:					
Dibromofluoromethane			109	68-133	
Toluene-d8			107	79-123	
4-Bromofluorobenzene			99	78-117	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

DISSOLVED METALS
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-29-050725**					
Laboratory ID:	05-084-01					
Iron	**4500**	56	EPA 6010D		5-13-25	
Manganese	**1500**	11	EPA 6010D		5-13-25	
Client ID:	**HZ-MW-34-050725**					
Laboratory ID:	05-084-02					
Iron	**1600**	56	EPA 6010D		5-13-25	
Manganese	**640**	11	EPA 6010D		5-13-25	
Client ID:	**HZ-MW-24-050725**					
Laboratory ID:	05-084-03					
Iron	**7600**	56	EPA 6010D		5-13-25	
Manganese	**5400**	11	EPA 6010D		5-13-25	
Client ID:	**HZ-MW-33R-050725**					
Laboratory ID:	05-084-04					
Iron	**ND**	56	EPA 6010D		5-13-25	
Manganese	**76**	11	EPA 6010D		5-13-25	
Client ID:	**MW-29-050725**					
Laboratory ID:	05-084-05					
Iron	**1100**	56	EPA 6010D		5-13-25	
Manganese	**97**	11	EPA 6010D		5-13-25	
Client ID:	**S-MW-3RRR-050725**					
Laboratory ID:	05-084-06					
Iron	**430**	56	EPA 6010D		5-13-25	
Manganese	**410**	11	EPA 6010D		5-13-25	
Client ID:	**HZ-MW-26-050725**					
Laboratory ID:	05-084-07					
Iron	**ND**	56	EPA 6010D		5-13-25	
Manganese	**15**	11	EPA 6010D		5-13-25	

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

DISSOLVED METALS
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-12-050725**					
Laboratory ID:	05-084-08					
Iron	**12000**	56	EPA 6010D		5-13-25	
Manganese	**2500**	11	EPA 6010D		5-13-25	
Client ID:	**MW-7-050725**					
Laboratory ID:	05-084-09					
Iron	**7100**	56	EPA 6010D		5-13-25	
Manganese	**780**	11	EPA 6010D		5-13-25	
Client ID:	**MW-107-050725**					
Laboratory ID:	05-084-10					
Iron	**6900**	56	EPA 6010D		5-13-25	
Manganese	**750**	11	EPA 6010D		5-13-25	
Client ID:	**MW-11-050725**					
Laboratory ID:	05-084-11					
Iron	**1800**	56	EPA 6010D		5-13-25	
Manganese	**1100**	11	EPA 6010D		5-13-25	
Client ID:	**MW-6-050725**					
Laboratory ID:	05-084-12					
Iron	**37000**	500	EPA 6010D		5-13-25	
Manganese	**4000**	11	EPA 6010D		5-13-25	
Client ID:	**MW-20R-050725**					
Laboratory ID:	05-084-13					
Iron	**5700**	56	EPA 6010D		5-13-25	
Manganese	**240**	11	EPA 6010D		5-13-25	
Client ID:	**S-MW-2RR-050725**					
Laboratory ID:	05-084-14					
Iron	**2100**	56	EPA 6010D		5-13-25	
Manganese	**2600**	11	EPA 6010D		5-13-25	

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

DISSOLVED METALS
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0508F1					
Iron	**ND**	56	EPA 6010D	5-8-25	5-13-25	
Manganese	**ND**	11	EPA 6010D	5-8-25	5-13-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	05-100-01										
	ORIG	DUP									
Iron	**58.6**	**ND**	NA	NA		NA		NA	NA	20	
Manganese	**23.7**	**23.3**	NA	NA		NA		NA	2	20	
MATRIX SPIKES											
Laboratory ID:	05-100-01										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**19400**	**19000**	22200	22200	58.6	**87**	**86**	75-125	2	20	
Manganese	**503**	**493**	556	556	23.7	**86**	**84**	75-125	2	20	
SPIKE BLANK											
Laboratory ID:	SB0508F1										
Iron	**22800**		22200		N/A	**102**		80-120			
Manganese	**559**		556		N/A	**101**		80-120			

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-29-050725**					
Laboratory ID:	05-084-01					
Ammonia	**0.16**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**HZ-MW-34-050725**					
Laboratory ID:	05-084-02					
Ammonia	**ND**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**HZ-MW-24-050725**					
Laboratory ID:	05-084-03					
Ammonia	**0.32**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**HZ-MW-33R-050725**					
Laboratory ID:	05-084-04					
Ammonia	**ND**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**MW-29-050725**					
Laboratory ID:	05-084-05					
Ammonia	**0.27**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**S-MW-3RRR-050725**					
Laboratory ID:	05-084-06					
Ammonia	**ND**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**HZ-MW-26-050725**					
Laboratory ID:	05-084-07					
Ammonia	**ND**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**MW-12-050725**					
Laboratory ID:	05-084-08					
Ammonia	**ND**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**MW-7-050725**					
Laboratory ID:	05-084-09					
Ammonia	**ND**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-107-050725**					
Laboratory ID:	05-084-10					
Ammonia	**ND**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**MW-11-050725**					
Laboratory ID:	05-084-11					
Ammonia	**0.23**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**MW-6-050725**					
Laboratory ID:	05-084-12					
Ammonia	**1.8**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**MW-20R-050725**					
Laboratory ID:	05-084-13					
Ammonia	**0.33**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	
Client ID:	**S-MW-2RR-050725**					
Laboratory ID:	05-084-14					
Ammonia	**6.3**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0507W3					
Ammonia	**ND**	0.053	SM 4500-NH3 D	5-7-25	5-7-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-084-01							
	ORIG DUP							
Ammonia	**0.162** **0.171**	NA	NA	NA	NA	5	15	
MATRIX SPIKE								
Laboratory ID:	05-084-01							
	MS	MS		MS				
Ammonia	**4.70**	5.00	0.162	91	76-114	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0507W3							
	SB	SB		SB				
Ammonia	**5.44**	5.00	NA	109	81-110	NA	NA	

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
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Project: Task 4

TOTAL ORTHOPHOSPHATE
EPA 365.1

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-29-050725**					
Laboratory ID:	05-084-01					
Orthophosphate	**0.97**	0.012	EPA 365.1	5-7-25	5-7-25	
Client ID:	**HZ-MW-34-050725**					
Laboratory ID:	05-084-02					
Orthophosphate	**0.12**	0.012	EPA 365.1	5-7-25	5-7-25	
Client ID:	**HZ-MW-24-050725**					
Laboratory ID:	05-084-03					
Orthophosphate	**0.042**	0.012	EPA 365.1	5-7-25	5-7-25	
Client ID:	**HZ-MW-33R-050725**					
Laboratory ID:	05-084-04					
Orthophosphate	**0.025**	0.012	EPA 365.1	5-7-25	5-7-25	
Client ID:	**MW-29-050725**					
Laboratory ID:	05-084-05					
Orthophosphate	**0.22**	0.012	EPA 365.1	5-7-25	5-7-25	
Client ID:	**S-MW-3RRR-050725**					
Laboratory ID:	05-084-06					
Orthophosphate	**ND**	0.012	EPA 365.1	5-7-25	5-7-25	
Client ID:	**HZ-MW-26-050725**					
Laboratory ID:	05-084-07					
Orthophosphate	**0.036**	0.012	EPA 365.1	5-7-25	5-7-25	
Client ID:	**MW-12-050725**					
Laboratory ID:	05-084-08					
Orthophosphate	**0.35**	0.012	EPA 365.1	5-7-25	5-7-25	
Client ID:	**MW-7-050725**					
Laboratory ID:	05-084-09					
Orthophosphate	**0.084**	0.012	EPA 365.1	5-7-25	5-7-25	

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

TOTAL ORTHOPHOSPHATE
EPA 365.1

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-107-050725**					
Laboratory ID:	05-084-10					
Orthophosphate	**0.078**	0.012	EPA 365.1	5-7-25	5-7-25	
Client ID:	**MW-11-050725**					
Laboratory ID:	05-084-11					
Orthophosphate	**0.21**	0.012	EPA 365.1	5-7-25	5-7-25	
Client ID:	**MW-6-050725**					
Laboratory ID:	05-084-12					
Orthophosphate	**1.1**	0.024	EPA 365.1	5-7-25	5-7-25	
Client ID:	**MW-20R-050725**					
Laboratory ID:	05-084-13					
Orthophosphate	**1.8**	0.024	EPA 365.1	5-7-25	5-7-25	
Client ID:	**S-MW-2RR-050725**					
Laboratory ID:	05-084-14					
Orthophosphate	**3.6**	0.048	EPA 365.1	5-7-25	5-7-25	

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

TOTAL ORTHOPHOSPHATE
EPA 365.1
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0507W2					
Orthophosphate	**ND**	0.012	EPA 365.1	5-7-25	5-7-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	05-084-01								
	ORIG	DUP							
Orthophosphate	**0.971**	**0.983**	NA	NA	NA	NA	1	18	
MATRIX SPIKE									
Laboratory ID:	05-084-01								
	MS		MS		MS				
Orthophosphate	**1.48**		0.500	0.971	102	81-112	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0507W2								
	SB		SB		SB				
Orthophosphate	**0.240**		0.250	NA	96	78-110	NA	NA	

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

SULFATE
ASTM D516-16

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-29-050725**					
Laboratory ID:	05-084-01					
Sulfate	**20**	10	ASTM D516-16	5-14-25	5-14-25	
Client ID:	**HZ-MW-34-050725**					
Laboratory ID:	05-084-02					
Sulfate	**30**	10	ASTM D516-16	5-14-25	5-14-25	
Client ID:	**HZ-MW-24-050725**					
Laboratory ID:	05-084-03					
Sulfate	**28**	10	ASTM D516-16	5-14-25	5-14-25	
Client ID:	**HZ-MW-33R-050725**					
Laboratory ID:	05-084-04					
Sulfate	**6.9**	5.0	ASTM D516-16	5-14-25	5-14-25	
Client ID:	**MW-29-050725**					
Laboratory ID:	05-084-05					
Sulfate	**ND**	5.0	ASTM D516-16	5-14-25	5-14-25	
Client ID:	**S-MW-3RRR-050725**					
Laboratory ID:	05-084-06					
Sulfate	**23**	5.0	ASTM D516-16	5-14-25	5-14-25	
Client ID:	**HZ-MW-26-050725**					
Laboratory ID:	05-084-07					
Sulfate	**23**	5.0	ASTM D516-16	5-14-25	5-14-25	
Client ID:	**MW-12-050725**					
Laboratory ID:	05-084-08					
Sulfate	**8.6**	5.0	ASTM D516-16	5-14-25	5-14-25	
Client ID:	**MW-7-050725**					
Laboratory ID:	05-084-09					
Sulfate	**20**	5.0	ASTM D516-16	5-14-25	5-14-25	

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

SULFATE
ASTM D516-16

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-107-050725**					
Laboratory ID:	05-084-10					
Sulfate	**13**	5.0	ASTM D516-16	5-14-25	5-14-25	
Client ID:	**MW-11-050725**					
Laboratory ID:	05-084-11					
Sulfate	**72**	20	ASTM D516-16	5-14-25	5-14-25	
Client ID:	**MW-6-050725**					
Laboratory ID:	05-084-12					
Sulfate	**49**	20	ASTM D516-16	5-14-25	5-14-25	
Client ID:	**MW-20R-050725**					
Laboratory ID:	05-084-13					
Sulfate	**18**	5.0	ASTM D516-16	5-14-25	5-14-25	
Client ID:	**S-MW-2RR-050725**					
Laboratory ID:	05-084-14					
Sulfate	**78**	20	ASTM D516-16	5-14-25	5-14-25	

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
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Project: Task 4

SULFATE
ASTM D516-16
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0514W1					
Sulfate	**ND**	5.0	ASTM D516-16	5-14-25	5-14-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	05-084-01								
	ORIG	DUP							
Sulfate	**20.1**	**20.4**	NA	NA	NA	NA	1	11	
MATRIX SPIKE									
Laboratory ID:	05-084-01								
	MS		MS		MS				
Sulfate	**39.8**		20.0	20.1	99	70-131	NA	NA	
SPIKE BLANK									
Laboratory ID:	sb								
	SB		SB		SB				
Sulfate	**8.74**		10.0	NA	87	83-113	NA	NA	

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-29-050725**					
Laboratory ID:	05-084-01					
Nitrate	**0.11**	0.050	EPA 353.2	5-8-25	5-8-25	
Client ID:	**HZ-MW-34-050725**					
Laboratory ID:	05-084-02					
Nitrate	**ND**	0.050	EPA 353.2	5-8-25	5-8-25	
Client ID:	**HZ-MW-24-050725**					
Laboratory ID:	05-084-03					
Nitrate	**ND**	0.050	EPA 353.2	5-8-25	5-8-25	
Client ID:	**HZ-MW-33R-050725**					
Laboratory ID:	05-084-04					
Nitrate	**0.34**	0.050	EPA 353.2	5-8-25	5-8-25	
Client ID:	**MW-29-050725**					
Laboratory ID:	05-084-05					
Nitrate	**ND**	0.050	EPA 353.2	5-8-25	5-8-25	
Client ID:	**S-MW-3RRR-050725**					
Laboratory ID:	05-084-06					
Nitrate	**0.47**	0.050	EPA 353.2	5-8-25	5-8-25	
Client ID:	**HZ-MW-26-050725**					
Laboratory ID:	05-084-07					
Nitrate	**0.20**	0.050	EPA 353.2	5-8-25	5-8-25	
Client ID:	**MW-12-050725**					
Laboratory ID:	05-084-08					
Nitrate	**0.055**	0.050	EPA 353.2	5-8-25	5-8-25	
Client ID:	**MW-7-050725**					
Laboratory ID:	05-084-09					
Nitrate	**ND**	0.050	EPA 353.2	5-8-25	5-8-25	

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-107-050725**					
Laboratory ID:	05-084-10					
Nitrate	**ND**	0.050	EPA 353.2	5-8-25	5-8-25	
Client ID:	**MW-11-050725**					
Laboratory ID:	05-084-11					
Nitrate	**ND**	0.050	EPA 353.2	5-8-25	5-8-25	
Client ID:	**MW-6-050725**					
Laboratory ID:	05-084-12					
Nitrate	**0.061**	0.050	EPA 353.2	5-8-25	5-8-25	
Client ID:	**MW-20R-050725**					
Laboratory ID:	05-084-13					
Nitrate	**ND**	0.050	EPA 353.2	5-8-25	5-8-25	
Client ID:	**S-MW-2RR-050725**					
Laboratory ID:	05-084-14					
Nitrate	**ND**	0.050	EPA 353.2	5-8-25	5-8-25	

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0508W1					
Nitrate	**ND**	0.050	EPA 353.2	5-8-25	5-8-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	05-084-01								
	ORIG	DUP							
Nitrate	**0.109**	**0.103**	NA	NA	NA	NA	6	22	
MATRIX SPIKE									
Laboratory ID:	05-084-01								
	MS		MS		MS				
Nitrate	**2.41**		2.00	0.109	115	74-130	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0508W1								
	SB		SB		SB				
Nitrate	**2.30**		2.00	NA	115	82-128	NA	NA	

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-29-050725**					
Laboratory ID:	05-084-01					
Methane	**3.0**	0.55	RSK 175	5-15-25	5-15-25	
Ethane	**ND**	0.56	RSK 175	5-15-25	5-15-25	
Ethene	**ND**	0.58	RSK 175	5-15-25	5-15-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*135*	*50-150*				
Client ID:	**HZ-MW-34-050725**					
Laboratory ID:	05-084-02					
Methane	**44**	0.55	RSK 175	5-15-25	5-15-25	
Ethane	**ND**	0.56	RSK 175	5-15-25	5-15-25	
Ethene	**ND**	0.58	RSK 175	5-15-25	5-15-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*127*	*50-150*				
Client ID:	**HZ-MW-24-050725**					
Laboratory ID:	05-084-03					
Methane	**22**	0.55	RSK 175	5-15-25	5-15-25	
Ethane	**ND**	0.56	RSK 175	5-15-25	5-15-25	
Ethene	**ND**	0.58	RSK 175	5-15-25	5-15-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*127*	*50-150*				
Client ID:	**HZ-MW-33R-050725**					
Laboratory ID:	05-084-04					
Methane	**61**	0.55	RSK 175	5-15-25	5-15-25	
Ethane	**ND**	0.56	RSK 175	5-15-25	5-15-25	
Ethene	**ND**	0.58	RSK 175	5-15-25	5-15-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*116*	*50-150*				
Client ID:	**MW-29-050725**					
Laboratory ID:	05-084-05					
Methane	**74**	0.55	RSK 175	5-15-05	5-15-05	
Ethane	**ND**	0.56	RSK 175	5-15-05	5-15-05	
Ethene	**ND**	0.58	RSK 175	5-15-05	5-15-05	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*113*	*50-150*				

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-3RRR-050725**					
Laboratory ID:	05-084-06					
Methane	**330**	2.8	RSK 175	5-15-25	5-15-25	
Ethane	**ND**	0.56	RSK 175	5-15-25	5-15-25	
Ethene	**ND**	0.58	RSK 175	5-15-25	5-15-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*120*	*50-150*				
Client ID:	**HZ-MW-26-050725**					
Laboratory ID:	05-084-07					
Methane	**8.0**	0.55	RSK 175	5-15-25	5-15-25	
Ethane	**ND**	0.56	RSK 175	5-15-25	5-15-25	
Ethene	**ND**	0.58	RSK 175	5-15-25	5-15-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*125*	*50-150*				
Client ID:	**MW-12-050725**					
Laboratory ID:	05-084-08					
Methane	**2600**	33	RSK 175	5-15-25	5-15-25	
Ethane	**ND**	0.56	RSK 175	5-15-25	5-15-25	
Ethene	**ND**	0.58	RSK 175	5-15-25	5-15-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*129*	*50-150*				
Client ID:	**MW-7-050725**					
Laboratory ID:	05-084-09					
Methane	**2100**	33	RSK 175	5-15-25	5-15-25	
Ethane	**ND**	0.56	RSK 175	5-15-25	5-15-25	
Ethene	**1.2**	0.58	RSK 175	5-15-25	5-15-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*126*	*50-150*				
Client ID:	**MW-107-050725**					
Laboratory ID:	05-084-10					
Methane	**2000**	33	RSK 175	5-15-25	5-15-25	
Ethane	**ND**	0.56	RSK 175	5-15-25	5-15-25	
Ethene	**1.7**	0.58	RSK 175	5-15-25	5-15-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*124*	*50-150*				

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-11-050725**					
Laboratory ID:	05-084-11					
Methane	**360**	2.8	RSK 175	5-15-25	5-15-25	
Ethane	**ND**	0.56	RSK 175	5-15-25	5-15-25	
Ethene	**1.0**	0.58	RSK 175	5-15-25	5-15-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*118*	*50-150*				
Client ID:	**MW-6-050725**					
Laboratory ID:	05-084-12					
Methane	**2000**	33	RSK 175	5-15-25	5-15-25	
Ethane	**ND**	0.56	RSK 175	5-15-25	5-15-25	
Ethene	**ND**	0.58	RSK 175	5-15-25	5-15-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*139*	*50-150*				
Client ID:	**MW-20R-050725**					
Laboratory ID:	05-084-13					
Methane	**930**	11	RSK 175	5-15-25	5-15-25	
Ethane	**ND**	0.56	RSK 175	5-15-25	5-15-25	
Ethene	**3.5**	0.58	RSK 175	5-15-25	5-15-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*132*	*50-150*				
Client ID:	**S-MW-2RR-050725**					
Laboratory ID:	05-084-14					
Methane	**290**	2.8	RSK 175	5-15-25	5-15-25	
Ethane	**ND**	0.56	RSK 175	5-15-25	5-15-25	
Ethene	**ND**	0.58	RSK 175	5-15-25	5-15-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*126*	*50-150*				

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0515W1					
Methane	**ND**	0.55	RSK 175	5-15-25	5-15-25	
Ethane	**ND**	0.56	RSK 175	5-15-25	5-15-25	
Ethene	**ND**	0.58	RSK 175	5-15-25	5-15-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*132*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0515W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**41.7**	**41.4**	44.2	44.2	94	94	75-125	1	25	
Ethane	**78.7**	**80.5**	83.2	83.2	95	97	75-125	2	25	
Ethene	**87.1**	**90.5**	77.7	77.7	112	116	75-125	4	25	
Surrogate:										
1-Butene					*85*	*101*	*50-150*			

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-29-050725**					
Laboratory ID:	05-084-01					
Total Organic Carbon	**1.2**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**HZ-MW-34-050725**					
Laboratory ID:	05-084-02					
Total Organic Carbon	**1.4**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**HZ-MW-24-050725**					
Laboratory ID:	05-084-03					
Total Organic Carbon	**2.3**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**HZ-MW-33R-050725**					
Laboratory ID:	05-084-04					
Total Organic Carbon	**ND**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**MW-29-050725**					
Laboratory ID:	05-084-05					
Total Organic Carbon	**1.6**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**S-MW-3RRR-050725**					
Laboratory ID:	05-084-06					
Total Organic Carbon	**1.0**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**HZ-MW-26-050725**					
Laboratory ID:	05-084-07					
Total Organic Carbon	**ND**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**MW-12-050725**					
Laboratory ID:	05-084-08					
Total Organic Carbon	**4.5**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**MW-7-050725**					
Laboratory ID:	05-084-09					
Total Organic Carbon	**8.3**	1.0	SM 5310B	5-20-25	5-21-25	

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-107-050725**					
Laboratory ID:	05-084-10					
Total Organic Carbon	**7.8**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**MW-11-050725**					
Laboratory ID:	05-084-11					
Total Organic Carbon	**4.1**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**MW-6-050725**					
Laboratory ID:	05-084-12					
Total Organic Carbon	**9.4**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**MW-20R-050725**					
Laboratory ID:	05-084-13					
Total Organic Carbon	**3.9**	1.0	SM 5310B	5-20-25	5-21-25	
Client ID:	**S-MW-2RR-050725**					
Laboratory ID:	05-084-14					
Total Organic Carbon	**9.3**	1.0	SM 5310B	5-20-25	5-21-25	

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Date of Report: May 23, 2025
Samples Submitted: May 7, 2025
Laboratory Reference: 2505-084
Project: Task 4

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0520W3					
Total Organic Carbon	**ND**	1.0	SM 5310B	5-20-25	5-21-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	05-084-01								
	ORIG	DUP							
Total Organic Carbon	**1.21**	**1.13**	NA	NA	NA	NA	7	10	
MATRIX SPIKE									
Laboratory ID:	05-084-01								
	MS		MS		MS				
Total Organic Carbon	**11.6**		10.0	1.21	104	70-136	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0520W3								
	SB		SB		SB				
Total Organic Carbon	**10.7**		10.0	NA	107	83-130	NA	NA	

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

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

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Chain of Custody

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

Company: Floyd|Snider
Project Number: Task 4
Project Name: COB-Service Center
Project Manager: Gabe Cisneros
Sampled by: Danielle Gallagher

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

Laboratory Number: 05-084

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	HZ-MW-29-050725	5/7/25	09:15	GW	9
2	HZ-MW-34-050725		09:00		9
3	HZ-MW-24-050725		09:10		9
4	HZ-MW-33R-050725		10:25		9
5	MW-29-050725		10:30		9
6	S-MW-3RRR-050725		10:30		9
7	HZ-MW-26-050725		13:45		9
8	MW-12-050725		13:25		9
9	MW-7-050725		13:45		9
10	MW-107-050725		14:00		9

Lab ID	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260 ★	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	~~Total RCRA Metals~~ Diss Fe+Mn	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Ammonia	OP/304/NO3	ME-RSK175	TOC	% Moisture
1					X									X				X	X	X	X	
2					X									X				X	X	X	X	
3					X									X				X	X	X	X	
4					X									X				X	X	X	X	
5					X									X				X	X	X	X	
6					X									X				X	X	X	X	
7					X									X				X	X	X	X	
8					X									X				X	X	X	X	
9					X									X				X	X	X	X	
10					X									X				X	X	X	X	

	Signature	Company	Date	Time
Relinquished		FIS	5/7/25	15:34
Received		SPEEDY	5/7/25	15:34
Relinquished		SPEEDY	5/7/25	1610
Received		CORE	5/7/25	1610
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
★ only PCE, TCE, cis-1,2-DCE, 1,1-DCE & VC + trans-1,2-DCE
Send results to: labdata@floydsnider.com

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

Chain of Custody

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

Company: Floyd|Snider
Project Number: Task 4
Project Name: COB-Service Center
Project Manager: Gabe Cisneros
Sampled by: Danielle Gallagher

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

Laboratory Number: 05-084

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
11	MW-11-050725	5/7/25	11:50	GW	9
12	MW-6-050725		11:45		9
13	MW-20R-050725		11:35		9
14	S-MW-2RR-050725		14:30	↓	9
15	Trip Blank-050725	↓	08:00	W	2

Lab ID	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260 ★	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	~~Total RCRA Metals~~ Diss Fe + Mn	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Ammonia	OP/SO4/NO3	MEE RSK 175	TOC	% Moisture
11					X									X				X	X	X	X	
12					X									X				X	X	X	X	
13					X									X				X	X	X	X	
14					X									X				X	X	X	X	
15					X																	

	Signature	Company	Date	Time
Relinquished		FIS	5/7/25	15:34
Received		SAEEDX	5/7/25	15:34
Relinquished		SPEEDY	5/7/25	1610
Received		OSE	5/7/25	1610
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

★ Only PCE, TCE, cis-1,2-DCE, 1,1-DCE & VC, trans-1,2-DCE

Send results to: labdata@floydsnider.com

Data Package: Standard ☒ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

Sample/Cooler Receipt and Acceptance Checklist

Client: FLS

Client Project Name/Number: Task 4

OnSite Project Number: 05-084

Initiated by: MW/BW

Date Initiated: 5/7/25

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	(No)	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	(N/A)	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	(N/A)	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	(Yes)	No	N/A	1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	(Yes)	No	N/A	Temperature:	6,6
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	(N/A)			
1.7 How were the samples delivered?	Client	(Courier)	UPS/FedEx	OSE Pickup	Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	(Yes)	No		1 2 3 4
2.2 Was the COC legible and written in permanent ink?	(Yes)	No		1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	(Yes)	No		1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	(Yes)	No		1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	(Yes)	No		1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	(No)		1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	(No)		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	(No)		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	(Yes)	No		1 2 3 4
3.4 Have the samples been correctly preserved?	(Yes)	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	(Yes)	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	(Yes)	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	(No)		1 2 3 4
3.8 Was method 5035A used?	Yes	No	(N/A)	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		(N/A)	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

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

October 2, 2025

Gabe Cisneros
Floyd & Snider
601 Union Street, Suite 600
Seattle, WA 98101

Re: Analytical Data for Project Task 4
Laboratory Reference No. 2509-286

Dear Gabe:

Enclosed are the analytical results and associated quality control data for samples submitted on September 22, 2025.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: October 2, 2025
Samples Submitted: September 22, 2025
Laboratory Reference: 2509-286
Project: Task 4

Case Narrative

Samples were collected on September 22, 2025 and received by the laboratory on September 22, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

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

Volatiles EPA 8260D Analysis

Some project requested PQLs are not achievable for samples MW-4R-092225, MW-5R-092225, and S-MW-5R-092225 due to the necessary dilution of the sample.

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

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Date of Report: October 2, 2025
Samples Submitted: September 22, 2025
Laboratory Reference: 2509-286
Project: Task 4

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-4R-092225**					
Laboratory ID:	09-286-01					
Vinyl Chloride	100	0.80	EPA 8260D	9-24-25	9-24-25	
1,1-Dichloroethene	4.4	0.80	EPA 8260D	9-24-25	9-24-25	
(cis) 1,2-Dichloroethene	530	4.0	EPA 8260D	9-25-25	9-25-25	
Trichloroethene	69	0.80	EPA 8260D	9-24-25	9-24-25	
Tetrachloroethene	58	4.0	EPA 8260D	9-25-25	9-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*68-133*				
Toluene-d8	*102*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**MW-5R-092225**					
Laboratory ID:	09-286-02					
Vinyl Chloride	1.0	0.40	EPA 8260D	9-24-25	9-24-25	
1,1-Dichloroethene	ND	0.40	EPA 8260D	9-24-25	9-24-25	
(cis) 1,2-Dichloroethene	19	0.40	EPA 8260D	9-24-25	9-24-25	
Trichloroethene	35	0.40	EPA 8260D	9-24-25	9-24-25	
Tetrachloroethene	1100	8.0	EPA 8260D	9-25-25	9-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*94*	*78-117*				
Client ID:	**MW-21R-092225**					
Laboratory ID:	09-286-03					
Vinyl Chloride	14	0.20	EPA 8260D	9-24-25	9-24-25	
1,1-Dichloroethene	0.34	0.20	EPA 8260D	9-24-25	9-24-25	
(cis) 1,2-Dichloroethene	200	10	EPA 8260D	9-25-25	9-25-25	
Trichloroethene	170	10	EPA 8260D	9-25-25	9-25-25	
Tetrachloroethene	1200	10	EPA 8260D	9-25-25	9-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				

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Date of Report: October 2, 2025
Samples Submitted: September 22, 2025
Laboratory Reference: 2509-286
Project: Task 4

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-34-092225**					
Laboratory ID:	09-286-04					
Vinyl Chloride	0.77	0.20	EPA 8260D	9-25-25	9-25-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-25-25	9-25-25	
(cis) 1,2-Dichloroethene	0.37	0.20	EPA 8260D	9-25-25	9-25-25	
Trichloroethene	0.50	0.20	EPA 8260D	9-25-25	9-25-25	
Tetrachloroethene	0.65	0.20	EPA 8260D	9-25-25	9-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*68-133*				
Toluene-d8	*101*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**MW-11-092225**					
Laboratory ID:	09-286-05					
Vinyl Chloride	16	0.20	EPA 8260D	9-25-25	9-25-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-25-25	9-25-25	
(cis) 1,2-Dichloroethene	5.0	0.20	EPA 8260D	9-25-25	9-25-25	
Trichloroethene	ND	0.20	EPA 8260D	9-25-25	9-25-25	
Tetrachloroethene	ND	0.20	EPA 8260D	9-25-25	9-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*102*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**MW-45R-092225**					
Laboratory ID:	09-286-06					
Vinyl Chloride	0.49	0.20	EPA 8260D	9-24-25	9-24-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-24-25	9-24-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-24-25	9-24-25	
Trichloroethene	ND	0.20	EPA 8260D	9-24-25	9-24-25	
Tetrachloroethene	ND	0.20	EPA 8260D	9-24-25	9-24-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*97*	*79-123*				
4-Bromofluorobenzene	*101*	*78-117*				

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Date of Report: October 2, 2025
Samples Submitted: September 22, 2025
Laboratory Reference: 2509-286
Project: Task 4

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-15S-092225**					
Laboratory ID:	09-286-08					
Vinyl Chloride	0.51	0.20	EPA 8260D	9-24-25	9-24-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-24-25	9-24-25	
(cis) 1,2-Dichloroethene	2.5	0.20	EPA 8260D	9-24-25	9-24-25	
Trichloroethene	0.58	0.20	EPA 8260D	9-24-25	9-24-25	
Tetrachloroethene	0.68	0.20	EPA 8260D	9-24-25	9-24-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*101*	*78-117*				
Client ID:	**S-MW-5R-092225**					
Laboratory ID:	09-286-09					
Vinyl Chloride	ND	2.0	EPA 8260D	9-24-25	9-24-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	9-24-25	9-24-25	
(cis) 1,2-Dichloroethene	9.4	2.0	EPA 8260D	9-24-25	9-24-25	
Trichloroethene	12	2.0	EPA 8260D	9-24-25	9-24-25	
Tetrachloroethene	750	4.0	EPA 8260D	9-25-25	9-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*95*	*78-117*				
Client ID:	**S-MW-2RR-092225**					
Laboratory ID:	09-286-10					
Vinyl Chloride	ND	0.20	EPA 8260D	9-24-25	9-24-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-24-25	9-24-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-24-25	9-24-25	
Trichloroethene	ND	0.20	EPA 8260D	9-24-25	9-24-25	
Tetrachloroethene	ND	0.20	EPA 8260D	9-24-25	9-24-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*95*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*96*	*78-117*				

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Date of Report: October 2, 2025
Samples Submitted: September 22, 2025
Laboratory Reference: 2509-286
Project: Task 4

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-20R-092225**					
Laboratory ID:	09-286-11					
Vinyl Chloride	130	1.0	EPA 8260D	9-24-25	9-24-25	
1,1-Dichloroethene	17	1.0	EPA 8260D	9-24-25	9-24-25	
(cis) 1,2-Dichloroethene	100	1.0	EPA 8260D	9-24-25	9-24-25	
Trichloroethene	36	1.0	EPA 8260D	9-24-25	9-24-25	
Tetrachloroethene	36	1.0	EPA 8260D	9-24-25	9-24-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				
Client ID:	**Trip Blanks-092225**					
Laboratory ID:	09-286-12					
Vinyl Chloride	ND	0.20	EPA 8260D	9-24-25	9-24-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-24-25	9-24-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-24-25	9-24-25	
Trichloroethene	ND	0.20	EPA 8260D	9-24-25	9-24-25	
Tetrachloroethene	ND	0.20	EPA 8260D	9-24-25	9-24-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				

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Date of Report: October 2, 2025
Samples Submitted: September 22, 2025
Laboratory Reference: 2509-286
Project: Task 4

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0924W2					
Vinyl Chloride	ND	0.20	EPA 8260D	9-24-25	9-24-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-24-25	9-24-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-24-25	9-24-25	
Trichloroethene	ND	0.20	EPA 8260D	9-24-25	9-24-25	
Tetrachloroethene	ND	0.20	EPA 8260D	9-24-25	9-24-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Laboratory ID:	MB0925W1					
Vinyl Chloride	ND	0.20	EPA 8260D	9-25-25	9-25-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-25-25	9-25-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-25-25	9-25-25	
Trichloroethene	ND	0.20	EPA 8260D	9-25-25	9-25-25	
Tetrachloroethene	ND	0.20	EPA 8260D	9-25-25	9-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*95*	*78-117*				

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Samples Submitted: September 22, 2025
Laboratory Reference: 2509-286
Project: Task 4

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0924W2									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**9.55**	**9.46**	10.0	10.0	96	95	67-131	1	16	
1,1-Dichloroethene	**10.0**	**9.86**	10.0	10.0	100	99	77-125	1	15	
(cis) 1,2-Dichloroethene	**10.4**	**10.5**	10.0	10.0	104	105	77-129	1	15	
Trichloroethene	**10.7**	**10.8**	10.0	10.0	107	108	80-130	1	15	
Tetrachloroethene	**10.7**	**11.0**	10.0	10.0	107	110	80-130	3	20	
Surrogate:										
Dibromofluoromethane					*98*	*98*	*68-133*			
Toluene-d8					*102*	*98*	*79-123*			
4-Bromofluorobenzene					*100*	*104*	*78-117*			
Laboratory ID:	SB0925W1									
	SB	SBD	SB	SBD	SB	SBD				
Vinyl Chloride	**9.59**	**9.07**	10.0	10.0	96	91	67-131	6	16	
1,1-Dichloroethene	**11.1**	**11.1**	10.0	10.0	111	111	77-125	0	15	
(cis) 1,2-Dichloroethene	**11.9**	**12.1**	10.0	10.0	119	121	77-129	2	15	
Trichloroethene	**11.8**	**12.2**	10.0	10.0	118	122	80-130	3	15	
Tetrachloroethene	**11.5**	**11.8**	10.0	10.0	115	118	80-130	3	20	
Surrogate:										
Dibromofluoromethane					*105*	*102*	*68-133*			
Toluene-d8					*103*	*102*	*79-123*			
4-Bromofluorobenzene					*103*	*102*	*78-117*			

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Project: Task 4

DISSOLVED METALS
EPA 200.7/200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-4R-092225**					
Laboratory ID:	09-286-01					
Iron	**15000**	55	EPA 200.7		9-30-25	
Manganese	**3600**	250	EPA 200.8		9-25-25	
Client ID:	**MW-5R-092225**					
Laboratory ID:	09-286-02					
Iron	**1700**	55	EPA 200.7		9-30-25	
Manganese	**830**	250	EPA 200.8		9-25-25	
Client ID:	**MW-21R-092225**					
Laboratory ID:	09-286-03					
Iron	**1400**	55	EPA 200.7		9-30-25	
Manganese	**1700**	250	EPA 200.8		9-25-25	
Client ID:	**MW-34-092225**					
Laboratory ID:	09-286-04					
Iron	**1900**	55	EPA 200.7		9-30-25	
Manganese	**290**	25	EPA 200.8		9-25-25	
Client ID:	**MW-11-092225**					
Laboratory ID:	09-286-05					
Iron	**2800**	55	EPA 200.7		9-30-25	
Manganese	**1800**	250	EPA 200.8		9-25-25	
Client ID:	**MW-45R-092225**					
Laboratory ID:	09-286-06					
Iron	**16000**	55	EPA 200.7		9-30-25	
Manganese	**4300**	250	EPA 200.8		9-25-25	
Client ID:	**HZ-MW-15S-092225**					
Laboratory ID:	09-286-08					
Iron	**4700**	55	EPA 200.7		9-30-25	
Manganese	**3900**	250	EPA 200.8		9-25-25	

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Project: Task 4

DISSOLVED METALS
EPA 200.7/200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-5R-092225**					
Laboratory ID:	09-286-09					
Iron	**57000**	500	EPA 200.7		9-30-25	
Manganese	**2600**	250	EPA 200.8		9-25-25	
Client ID:	**S-MW-2RR-092225**					
Laboratory ID:	09-286-10					
Iron	**2200**	55	EPA 200.7		9-30-25	
Manganese	**1600**	250	EPA 200.8		9-25-25	
Client ID:	**MW-20R-092225**					
Laboratory ID:	09-286-11					
Iron	**5400**	55	EPA 200.7		9-30-25	
Manganese	**230**	25	EPA 200.8		9-25-25	

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Project: Task 4

DISSOLVED METALS
EPA 200.7/200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0930D2					
Iron	**ND**	50	EPA 200.7		9-30-25	
Laboratory ID:	MB0925D1					
Manganese	**ND**	10	EPA 200.8		9-25-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-286-03										
	ORIG	DUP									
Iron	**1430**	**1390**	NA	NA		NA		NA	3	20	
Laboratory ID:	09-286-11										
Manganese	**235**	**252**	NA	NA		NA		NA	7	20	
MATRIX SPIKES											
Laboratory ID:	09-286-03										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**24700**	**24500**	22200	22200	1430	**105**	**104**	75-125	1	20	
Laboratory ID:	09-286-11										
Manganese	**393**	**399**	200	200	235	**79**	**82**	75-125	2	20	
SPIKE BLANK											
Laboratory ID:	SB0930D2										
Iron	**21500**		22200		N/A	**97**		85-115			
Laboratory ID:	SB0925D1										
Manganese	**79.4**		80.0		N/A	**99**		85-115			

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Samples Submitted: September 22, 2025
Laboratory Reference: 2509-286
Project: Task 4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-4R-092225**					
Laboratory ID:	09-286-01					
Ammonia	**ND**	0.053	SM 4500-NH3 D	9-26-25	9-26-25	
Client ID:	**MW-5R-092225**					
Laboratory ID:	09-286-02					
Ammonia	**ND**	0.053	SM 4500-NH3 D	9-26-25	9-26-25	
Client ID:	**MW-21R-092225**					
Laboratory ID:	09-286-03					
Ammonia	**ND**	0.053	SM 4500-NH3 D	9-26-25	9-26-25	
Client ID:	**MW-34-092225**					
Laboratory ID:	09-286-04					
Ammonia	**ND**	0.053	SM 4500-NH3 D	9-26-25	9-26-25	
Client ID:	**MW-11-092225**					
Laboratory ID:	09-286-05					
Ammonia	**0.26**	0.053	SM 4500-NH3 D	9-26-25	9-26-25	
Client ID:	**MW-45R-092225**					
Laboratory ID:	09-286-06					
Ammonia	**0.49**	0.053	SM 4500-NH3 D	9-26-25	9-26-25	
Client ID:	**HZ-MW-15S-092225**					
Laboratory ID:	09-286-08					
Ammonia	**ND**	0.053	SM 4500-NH3 D	9-26-25	9-26-25	
Client ID:	**S-MW-5R-092225**					
Laboratory ID:	09-286-09					
Ammonia	**120**	0.21	SM 4500-NH3 D	9-26-25	9-26-25	
Client ID:	**S-MW-2RR-092225**					
Laboratory ID:	09-286-10					
Ammonia	**4.4**	0.053	SM 4500-NH3 D	9-26-25	9-26-25	

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Date of Report: October 2, 2025
Samples Submitted: September 22, 2025
Laboratory Reference: 2509-286
Project: Task 4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-20R-092225**					
Laboratory ID:	09-286-11					
Ammonia	**0.43**	0.053	SM 4500-NH3 D	9-26-25	9-26-25	

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Project: Task 4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	9-26-25	9-26-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-286-01										
	ORIG	DUP									
Ammonia	**ND**	**ND**	NA		NA	NA		NA	NA	21	
MATRIX SPIKES											
Laboratory ID:	09-286-01										
	MS	MSD	MS	MSD		MS	MSD				
Ammonia	**4.51**	**4.47**	5.00	5.00	ND	90	89	76-114	1	20	
SPIKE BLANK											
Laboratory ID:	SB0926W1										
	SB		SB			SB					
Ammonia	**4.35**		5.00		NA	87		81-110	NA	NA	

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Project: Task 4

TOTAL ORTHOPHOSPHATE
EPA 365.1

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-4R-092225**					
Laboratory ID:	09-286-01					
Orthophosphate	**0.26**	0.012	EPA 365.1	9-22-25	9-22-25 17:06	
Client ID:	**MW-5R-092225**					
Laboratory ID:	09-286-02					
Orthophosphate	**0.073**	0.012	EPA 365.1	9-22-25	9-22-25 17:09	
Client ID:	**MW-21R-092225**					
Laboratory ID:	09-286-03					
Orthophosphate	**0.091**	0.012	EPA 365.1	9-22-25	9-22-25 18:06	
Client ID:	**MW-34-092225**					
Laboratory ID:	09-286-04					
Orthophosphate	**0.038**	0.012	EPA 365.1	9-22-25	9-22-25 17:11	
Client ID:	**MW-11-092225**					
Laboratory ID:	09-286-05					
Orthophosphate	**0.20**	0.012	EPA 365.1	9-22-25	9-22-25 18:08	
Client ID:	**MW-45R-092225**					
Laboratory ID:	09-286-06					
Orthophosphate	**0.10**	0.012	EPA 365.1	9-22-25	9-22-25 17:12	
Client ID:	**HZ-MW-15S-092225**					
Laboratory ID:	09-286-08					
Orthophosphate	**0.16**	0.012	EPA 365.1	9-22-25	9-22-25 17:34	
Client ID:	**S-MW-5R-092225**					
Laboratory ID:	09-286-09					
Orthophosphate	**110**	2.4	EPA 365.1	9-22-25	9-22-25 19:19	
Client ID:	**S-MW-2RR-092225**					
Laboratory ID:	09-286-10					
Orthophosphate	**4.2**	0.096	EPA 365.1	9-22-25	9-22-25 18:36	

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Project: Task 4

TOTAL ORTHOPHOSPHATE
EPA 365.1

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-20R-092225**					
Laboratory ID:	09-286-11					
Orthophosphate	**1.5**	0.024	EPA 365.1	9-22-25	9-22-25 18:11	

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Project: Task 4

TOTAL ORTHOPHOSPHATE
EPA 365.1
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0922W1					
Orthophosphate	**ND**	0.012	EPA 365.1	9-22-25	9-22-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-286-01								
	ORIG	DUP							
Orthophosphate	**0.258**	**0.254**	NA	NA	NA	NA	2	18	
MATRIX SPIKE									
Laboratory ID:	09-286-01								
	MS		MS		MS				
Orthophosphate	**0.501**		0.250	0.258	97	81-112	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0922W1								
	SB		SB		SB				
Orthophosphate	**0.251**		0.250	NA	100	78-110	NA	NA	

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Project: Task 4

SULFATE
ASTM D516-16

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-4R-092225**					
Laboratory ID:	09-286-01					
Sulfate	**17**	5.0	ASTM D516-16	9-24-25	9-24-25	
Client ID:	**MW-5R-092225**					
Laboratory ID:	09-286-02					
Sulfate	**30**	5.0	ASTM D516-16	9-24-25	9-24-25	
Client ID:	**MW-21R-092225**					
Laboratory ID:	09-286-03					
Sulfate	**22**	5.0	ASTM D516-16	9-24-25	9-24-25	
Client ID:	**MW-34-092225**					
Laboratory ID:	09-286-04					
Sulfate	**37**	5.0	ASTM D516-16	9-24-25	9-24-25	
Client ID:	**MW-11-092225**					
Laboratory ID:	09-286-05					
Sulfate	**150**	50	ASTM D516-16	9-24-25	9-24-25	
Client ID:	**MW-45R-092225**					
Laboratory ID:	09-286-06					
Sulfate	**ND**	5.0	ASTM D516-16	9-24-25	9-24-25	
Client ID:	**HZ-MW-15S-092225**					
Laboratory ID:	09-286-08					
Sulfate	**ND**	5.0	ASTM D516-16	9-24-25	9-24-25	
Client ID:	**S-MW-5R-092225**					
Laboratory ID:	09-286-09					
Sulfate	**ND**	5.0	ASTM D516-16	9-24-25	9-24-25	
Client ID:	**S-MW-2RR-092225**					
Laboratory ID:	09-286-10					
Sulfate	**120**	25	ASTM D516-16	9-24-25	9-24-25	

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Project: Task 4

SULFATE
ASTM D516-16

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-20R-092225**					
Laboratory ID:	09-286-11					
Sulfate	**14**	5.0	ASTM D516-16	9-24-25	9-24-25	

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Project: Task 4

SULFATE
ASTM D516-16
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0924W1					
Sulfate	**ND**	5.0	ASTM D516-16	9-24-25	9-24-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-286-01								
	ORIG	DUP							
Sulfate	**16.7**	**16.4**	NA	NA	NA	NA	2	11	
MATRIX SPIKE									
Laboratory ID:	09-286-01								
	MS		MS		MS				
Sulfate	**32.2**		20.0	16.7	78	70-131	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0924W1								
	SB		SB		SB				
Sulfate	**9.48**		10.0	NA	95	83-113	NA	NA	

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Project: Task 4

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-4R-092225**					
Laboratory ID:	09-286-01					
Nitrate	**0.077**	0.050	EPA 353.2	9-23-25	9-23-25	
Client ID:	**MW-5R-092225**					
Laboratory ID:	09-286-02					
Nitrate	**ND**	0.050	EPA 353.2	9-23-25	9-23-25	
Client ID:	**MW-21R-092225**					
Laboratory ID:	09-286-03					
Nitrate	**ND**	0.050	EPA 353.2	9-23-25	9-23-25	
Client ID:	**MW-34-092225**					
Laboratory ID:	09-286-04					
Nitrate	**ND**	0.050	EPA 353.2	9-23-25	9-23-25	
Client ID:	**MW-11-092225**					
Laboratory ID:	09-286-05					
Nitrate	**ND**	0.050	EPA 353.2	9-23-25	9-23-25	
Client ID:	**MW-45R-092225**					
Laboratory ID:	09-286-06					
Nitrate	**0.36**	0.050	EPA 353.2	9-23-25	9-23-25	
Client ID:	**HZ-MW-15S-092225**					
Laboratory ID:	09-286-08					
Nitrate	**ND**	0.050	EPA 353.2	9-23-25	9-23-25	
Client ID:	**S-MW-5R-092225**					
Laboratory ID:	09-286-09					
Nitrate	**0.15**	0.050	EPA 353.2	9-23-25	9-23-25	
Client ID:	**S-MW-2RR-092225**					
Laboratory ID:	09-286-10					
Nitrate	**ND**	0.050	EPA 353.2	9-23-25	9-23-25	

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Project: Task 4

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-20R-092225**					
Laboratory ID:	09-286-11					
Nitrate	**ND**	0.050	EPA 353.2	9-23-25	9-23-25	

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NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Nitrate	**ND**	0.050	EPA 353.2	9-23-25	9-23-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-286-01								
	ORIG	DUP							
Nitrate	**0.0765**	**0.0668**	NA	NA	NA	NA	14	23	
SPIKE BLANK									
Laboratory ID:	SB0923W1								
	SB		SB		SB				
Nitrate	**2.13**		2.00	NA	107	82-128	NA	NA	
MATRIX SPIKE									
Laboratory ID:	09-286-01								
	MS		MS		MS				
Nitrate	**2.42**		2.00	0.0765	117	74-130	NA	NA	

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Project: Task 4

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-4R-092225**					
Laboratory ID:	09-286-01					
Methane	**16000**	83	RSK 175	9-25-25	9-25-25	
Ethane	**ND**	0.56	RSK 175	9-25-25	9-25-25	
Ethene	**53**	0.58	RSK 175	9-25-25	9-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*69*	*50-150*				
Client ID:	**MW-5R-092225**					
Laboratory ID:	09-286-02					
Methane	**7200**	42	RSK 175	9-25-25	9-25-25	
Ethane	**ND**	0.56	RSK 175	9-25-25	9-25-25	
Ethene	**ND**	0.58	RSK 175	9-25-25	9-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*81*	*50-150*				
Client ID:	**MW-21R-092225**					
Laboratory ID:	09-286-03					
Methane	**2800**	17	RSK 175	9-25-25	9-25-25	
Ethane	**ND**	0.56	RSK 175	9-25-25	9-25-25	
Ethene	**15**	0.58	RSK 175	9-25-25	9-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*79*	*50-150*				
Client ID:	**MW-34-092225**					
Laboratory ID:	09-286-04					
Methane	**60**	0.55	RSK 175	9-25-25	9-25-25	
Ethane	**ND**	0.56	RSK 175	9-25-25	9-25-25	
Ethene	**ND**	0.58	RSK 175	9-25-25	9-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*83*	*50-150*				
Client ID:	**MW-11-092225**					
Laboratory ID:	09-286-05					
Methane	**1100**	8.3	RSK 175	9-25-25	9-25-25	
Ethane	**ND**	0.56	RSK 175	9-25-25	9-25-25	
Ethene	**9.8**	0.58	RSK 175	9-25-25	9-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*83*	*50-150*				

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DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-45R-092225**					
Laboratory ID:	09-286-06					
Methane	**11000**	83	RSK 175	9-25-25	9-25-25	
Ethane	**ND**	0.56	RSK 175	9-25-25	9-25-25	
Ethene	**ND**	0.58	RSK 175	9-25-25	9-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*69*	*50-150*				
Client ID:	**HZ-MW-15S-092225**					
Laboratory ID:	09-286-08					
Methane	**880**	5.5	RSK 175	9-25-25	9-25-25	
Ethane	**ND**	0.56	RSK 175	9-25-25	9-25-25	
Ethene	**ND**	0.58	RSK 175	9-25-25	9-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*69*	*50-150*				
Client ID:	**S-MW-5R-092225**					
Laboratory ID:	09-286-09					
Methane	**140**	1.1	RSK 175	9-25-25	9-25-25	
Ethane	**ND**	0.56	RSK 175	9-25-25	9-25-25	
Ethene	**2.2**	0.58	RSK 175	9-25-25	9-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*65*	*50-150*				
Client ID:	**S-MW-2RR-092225**					
Laboratory ID:	09-286-10					
Methane	**1300**	8.3	RSK 175	9-25-25	9-25-25	
Ethane	**ND**	0.56	RSK 175	9-25-25	9-25-25	
Ethene	**ND**	0.58	RSK 175	9-25-25	9-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*88*	*50-150*				
Client ID:	**MW-20R-092225**					
Laboratory ID:	09-286-11					
Methane	**3500**	33	RSK 175	9-25-25	9-25-25	
Ethane	**ND**	0.56	RSK 175	9-25-25	9-25-25	
Ethene	**60**	0.58	RSK 175	9-25-25	9-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*92*	*50-150*				

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DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0925W1					
Methane	**ND**	0.55	RSK 175	9-25-25	9-25-25	
Ethane	**ND**	0.56	RSK 175	9-25-25	9-25-25	
Ethene	**ND**	0.58	RSK 175	9-25-25	9-25-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*71*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0925W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**37.2**	**37.4**	44.2	44.2	84	85	75-125	1	25	
Ethane	**68.3**	**69.0**	83.2	83.2	82	83	75-125	1	25	
Ethene	**58.5**	**58.6**	77.7	77.7	75	75	75-125	0	25	
Surrogate:										
1-Butene					*71*	*75*	*50-150*			

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Project: Task 4

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-4R-092225**					
Laboratory ID:	09-286-01					
Total Organic Carbon	**3.5**	1.0	SM 5310B	9-23-25	9-23-25	
Client ID:	**MW-5R-092225**					
Laboratory ID:	09-286-02					
Total Organic Carbon	**1.4**	1.0	SM 5310B	9-23-25	9-23-25	
Client ID:	**MW-21R-092225**					
Laboratory ID:	09-286-03					
Total Organic Carbon	**2.3**	1.0	SM 5310B	9-23-25	9-23-25	
Client ID:	**MW-34-092225**					
Laboratory ID:	09-286-04					
Total Organic Carbon	**1.9**	1.0	SM 5310B	9-23-25	9-23-25	
Client ID:	**MW-11-092225**					
Laboratory ID:	09-286-05					
Total Organic Carbon	**4.2**	1.0	SM 5310B	9-23-25	9-23-25	
Client ID:	**MW-45R-092225**					
Laboratory ID:	09-286-06					
Total Organic Carbon	**11**	1.0	SM 5310B	9-23-25	9-23-25	
Client ID:	**HZ-MW-15S-092225**					
Laboratory ID:	09-286-08					
Total Organic Carbon	**7.5**	1.0	SM 5310B	9-23-25	9-23-25	
Client ID:	**S-MW-5R-092225**					
Laboratory ID:	09-286-09					
Total Organic Carbon	**920**	20	SM 5310B	9-23-25	9-24-25	
Client ID:	**S-MW-2RR-092225**					
Laboratory ID:	09-286-10					
Total Organic Carbon	**3.0**	1.0	SM 5310B	9-23-25	9-23-25	

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TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-20R-092225**					
Laboratory ID:	09-286-11					
Total Organic Carbon	**4.1**	1.0	SM 5310B	9-23-25	9-24-25	

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Project: Task 4

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	9-23-25	9-23-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-253-01										
	ORIG	DUP									
Total Organic Carbon	**3.54**	**3.66**	NA		NA	NA		NA	3	10	
MATRIX SPIKES											
Laboratory ID:	09-253-01										
	MS	MSD	MS	MSD		MS	MSD				
Total Organic Carbon	**15.8**	**16.1**	10.0	10.0	3.54	123	126	70-136	2	20	
SPIKE BLANK											
Laboratory ID:	SB0923W1										
	SB		SB			SB					
Total Organic Carbon	**11.8**		10.0		NA	118		83-130	NA	NA	

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

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

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Chain of Custody

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

Company: Floyd | Snider
Project Number: Task 4
Project Name: Bothell Service Center
Project Manager: Gabe Cisneros
Sampled by: Danielle Gallagher

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

Laboratory Number: 09-286

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	~~Total~~ HCRA Metals D&S Fe+Mn	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Ammonia	OP/SO4/NO3	MEE-RSK 175	TOC	% Moisture
1	MW-4R-092225	9/22/25	11:00	GW	9					X									X				X	X	X	X	
2	MW-5R-092225		11:05		9					X									X				X	X	X	X	
3	MW-21R-092225		11:10		9					X									X				X	X	X	X	
4	MW-34-092225		12:25		9					X									X				X	X	X	X	
5	MW-11-092225		12:30		9					X									X				X	X	X	X	
6	MW-45R-092225		12:35		9					X									X				X	X	X	X	
~~7~~	~~HZ-MW-15D-092225~~				9					X	Not received 9/22/25 JW								X				X	X	X	X	
8	HZ-MW-15S-092225		13:30		9					X									X				X	X	X	X	
9	S-MW-5R-092225		13:40		9					X									X				X	X	X	X	
10	S-MW-2RR-092225	↓	14:40	↓	9					X									X				X	X	X	X	

	Signature	Company	Date	Time
Relinquished	Danielle Gallagher	Floyd | Snider	9/22/25	14:54
Received	Stephanie Yuncker	Alpha/Speedy	9/22/25	14:57
Relinquished	Stephanie Yuncker		9/22/25	3:30
Received		CORE	9/22/25	1530
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
~~X~~ Only PCE, TCE, cis-1,2-DCE, t-1-DCE & VC
Send results to: labdata@floydsnider.com

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

Chain of Custody

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

Company: Floyd | Snider
Project Number: Task 4
Project Name: Bothell Service Center
Project Manager: Gabe Cisneros
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Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-286

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260 ★	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	~~Total RCRA Metals~~ Total Fe + Mn	Total MTCA Metals Dissolved	TCLP Metals	HEM (oil and grease) 1664	Ammonia	09/504/NO3	MEE RSK 175	TOC	% Moisture
11	MW-20R-092225	9/22/25	14:45	GW	9					X									X				X	X	X	X	
12	Trip Blank-092225	9/22/25	08:00	W	2					X																	

	Signature	Company	Date	Time
Relinquished	[signature]	Floyd|Snider	9/22/25	14:54
Received	[signature]	Alpha/Speedy	9/22/25	14:54
Relinquished	[signature]		9/22/25	3:30
Received	[signature]	CORE	9/22/25	1530
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
★ Only PCE, TCE, cis-1,2-DCE, 1,1-DCE & VC
Send results to: izbdata@floydsnider.com

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

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

October 2, 2025

Gabe Cisneros
Floyd & Snider
601 Union Street, Suite 600
Seattle, WA 98101

Re: Analytical Data for Project Task 4
Laboratory Reference No. 2509-323

Dear Gabe:

Enclosed are the analytical results and associated quality control data for samples submitted on September 23, 2025.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

Case Narrative

Samples were collected on September 22 and 23, 2025 and received by the laboratory on September 23, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

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

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-15D-092225**					
Laboratory ID:	09-323-01					
Vinyl Chloride	ND	8.0	EPA 8260D	9-26-25	9-26-25	
1,1-Dichloroethene	ND	8.0	EPA 8260D	9-26-25	9-26-25	
(cis) 1,2-Dichloroethene	1200	8.0	EPA 8260D	9-26-25	9-26-25	
Trichloroethene	12	8.0	EPA 8260D	9-26-25	9-26-25	
Tetrachloroethene	ND	8.0	EPA 8260D	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**MW-44R-092325**					
Laboratory ID:	09-323-02					
Vinyl Chloride	0.46	0.20	EPA 8260D	9-26-25	9-26-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Trichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Tetrachloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*68-133*				
Toluene-d8	*101*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**MW-42-092325**					
Laboratory ID:	09-323-03					
Vinyl Chloride	0.55	0.20	EPA 8260D	9-26-25	9-26-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
(cis) 1,2-Dichloroethene	0.56	0.20	EPA 8260D	9-26-25	9-26-25	
Trichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Tetrachloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*68-133*				
Toluene-d8	*94*	*79-123*				
4-Bromofluorobenzene	*90*	*78-117*				

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-43R-092325**					
Laboratory ID:	09-323-04					
Vinyl Chloride	ND	0.20	EPA 8260D	9-26-25	9-26-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
(cis) 1,2-Dichloroethene	2.5	0.20	EPA 8260D	9-26-25	9-26-25	
Trichloroethene	2.4	0.20	EPA 8260D	9-26-25	9-26-25	
Tetrachloroethene	4.3	0.20	EPA 8260D	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*68-133*				
Toluene-d8	*98*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				
Client ID:	**HZ-MW-31-092325**					
Laboratory ID:	09-323-05					
Vinyl Chloride	46	0.40	EPA 8260D	9-26-25	9-26-25	
1,1-Dichloroethene	ND	0.40	EPA 8260D	9-26-25	9-26-25	
(cis) 1,2-Dichloroethene	40	0.40	EPA 8260D	9-26-25	9-26-25	
Trichloroethene	ND	0.40	EPA 8260D	9-26-25	9-26-25	
Tetrachloroethene	ND	0.40	EPA 8260D	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*105*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**MW-39-092325**					
Laboratory ID:	09-323-06					
Vinyl Chloride	0.54	0.20	EPA 8260D	9-26-25	9-26-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
(cis) 1,2-Dichloroethene	3.3	0.20	EPA 8260D	9-26-25	9-26-25	
Trichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Tetrachloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*102*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-40-092325**					
Laboratory ID:	09-323-07					
Vinyl Chloride	230	8.0	EPA 8260D	9-26-25	9-26-25	
1,1-Dichloroethene	66	8.0	EPA 8260D	9-26-25	9-26-25	
(cis) 1,2-Dichloroethene	510	8.0	EPA 8260D	9-26-25	9-26-25	
Trichloroethene	1100	8.0	EPA 8260D	9-26-25	9-26-25	
Tetrachloroethene	630	8.0	EPA 8260D	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*101*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				
Client ID:	**MW-140-092325**					
Laboratory ID:	09-323-08					
Vinyl Chloride	190	8.0	EPA 8260D	9-26-25	9-26-25	
1,1-Dichloroethene	49	8.0	EPA 8260D	9-26-25	9-26-25	
(cis) 1,2-Dichloroethene	360	8.0	EPA 8260D	9-26-25	9-26-25	
Trichloroethene	830	8.0	EPA 8260D	9-26-25	9-26-25	
Tetrachloroethene	490	8.0	EPA 8260D	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*68-133*				
Toluene-d8	*103*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				
Client ID:	**MW-23-092325**					
Laboratory ID:	09-323-09					
Vinyl Chloride	ND	0.20	EPA 8260D	9-26-25	9-26-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Trichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Tetrachloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*68-133*				
Toluene-d8	*102*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-27-092325**					
Laboratory ID:	09-323-10					
Vinyl Chloride	ND	0.20	EPA 8260D	9-26-25	9-26-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
(cis) 1,2-Dichloroethene	6.8	0.20	EPA 8260D	9-26-25	9-26-25	
Trichloroethene	8.4	0.20	EPA 8260D	9-26-25	9-26-25	
Tetrachloroethene	24	0.20	EPA 8260D	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*68-133*				
Toluene-d8	*101*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**S-MW-1-092325**					
Laboratory ID:	09-323-11					
Vinyl Chloride	ND	0.20	EPA 8260D	9-26-25	9-26-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Trichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Tetrachloroethene	4.2	0.20	EPA 8260D	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*103*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Client ID:	**MW-29-092325**					
Laboratory ID:	09-323-12					
Vinyl Chloride	ND	0.20	EPA 8260D	9-26-25	9-26-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Trichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Tetrachloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*68-133*				
Toluene-d8	*104*	*79-123*				
4-Bromofluorobenzene	*91*	*78-117*				

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-3RRR-092325**					
Laboratory ID:	09-323-13					
Vinyl Chloride	0.58	0.40	EPA 8260D	9-29-25	9-29-25	
1,1-Dichloroethene	ND	0.40	EPA 8260D	9-29-25	9-29-25	
(cis) 1,2-Dichloroethene	2.0	0.40	EPA 8260D	9-29-25	9-29-25	
Trichloroethene	1.1	0.40	EPA 8260D	9-29-25	9-29-25	
Tetrachloroethene	95	0.40	EPA 8260D	9-29-25	9-29-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*101*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				
Client ID:	**HZ-MW-33R-092325**					
Laboratory ID:	09-323-14					
Vinyl Chloride	ND	0.20	EPA 8260D	9-26-25	9-26-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Trichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Tetrachloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*102*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				
Client ID:	**HZ-MW-14S-092325**					
Laboratory ID:	09-323-15					
Vinyl Chloride	ND	8.0	EPA 8260D	9-29-25	9-29-25	
1,1-Dichloroethene	ND	8.0	EPA 8260D	9-29-25	9-29-25	
(cis) 1,2-Dichloroethene	270	8.0	EPA 8260D	9-29-25	9-29-25	
Trichloroethene	170	8.0	EPA 8260D	9-29-25	9-29-25	
Tetrachloroethene	1600	8.0	EPA 8260D	9-29-25	9-29-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*68-133*				
Toluene-d8	*101*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-14D-092325**					
Laboratory ID:	09-323-16					
Vinyl Chloride	1.4	0.20	EPA 8260D	9-26-25	9-26-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
(cis) 1,2-Dichloroethene	13	0.20	EPA 8260D	9-26-25	9-26-25	
Trichloroethene	2.2	0.20	EPA 8260D	9-26-25	9-26-25	
Tetrachloroethene	1.1	0.20	EPA 8260D	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*68-133*				
Toluene-d8	*102*	*79-123*				
4-Bromofluorobenzene	*101*	*78-117*				
Client ID:	**Trip Blank-092325**					
Laboratory ID:	09-323-17					
Vinyl Chloride	ND	0.20	EPA 8260D	9-26-25	9-26-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Trichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Tetrachloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*68-133*				
Toluene-d8	*101*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926W1					
Vinyl Chloride	ND	0.20	EPA 8260D	9-26-25	9-26-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Trichloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Tetrachloroethene	ND	0.20	EPA 8260D	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*98*	*78-117*				
Laboratory ID:	MB0929W1					
Vinyl Chloride	ND	0.20	EPA 8260D	9-29-25	9-29-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-29-25	9-29-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-29-25	9-29-25	
Trichloroethene	ND	0.20	EPA 8260D	9-29-25	9-29-25	
Tetrachloroethene	ND	0.20	EPA 8260D	9-29-25	9-29-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*103*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level			Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0926W1										
	SB	SBD	SB	SBD		SB	SBD				
Vinyl Chloride	**9.56**	**9.90**	10.0	10.0		96	99	67-131	3	16	
1,1-Dichloroethene	**9.95**	**10.2**	10.0	10.0		100	102	77-125	2	15	
(cis) 1,2-Dichloroethene	**10.2**	**10.6**	10.0	10.0		102	106	77-129	4	15	
Trichloroethene	**10.7**	**11.0**	10.0	10.0		107	110	80-130	3	15	
Tetrachloroethene	**10.3**	**10.6**	10.0	10.0		103	106	80-130	3	20	
Surrogate:											
Dibromofluoromethane						*96*	*97*	*68-133*			
Toluene-d8						*102*	*102*	*79-123*			
4-Bromofluorobenzene						*98*	*101*	*78-117*			
MATRIX SPIKES											
Laboratory ID:	09-348-01										
	MS	MSD	MS	MSD		MS	MSD				
Vinyl Chloride	**48.4**	**46.0**	50.0	50.0	ND	97	92	69-126	5	16	
1,1-Dichloroethene	**55.4**	**53.0**	50.0	50.0	ND	111	106	73-125	4	15	
(cis) 1,2-Dichloroethene	**59.1**	**56.1**	50.0	50.0	ND	118	112	71-130	5	16	
Trichloroethene	**57.2**	**56.3**	50.0	50.0	ND	114	113	74-134	2	12	
Tetrachloroethene	**54.1**	**52.5**	50.0	50.0	ND	108	105	78-132	3	22	
Surrogate:											
Dibromofluoromethane						*103*	*102*	*68-133*			
Toluene-d8						*105*	*103*	*79-123*			
4-Bromofluorobenzene						*103*	*102*	*78-117*			
SPIKE BLANK											
Laboratory ID:	SB0929W1										
Vinyl Chloride	**9.53**		10.0			95		67-131			
1,1-Dichloroethene	**11.0**		10.0			110		77-125			
(cis) 1,2-Dichloroethene	**11.7**		10.0			117		77-129			
Trichloroethene	**10.9**		10.0			109		80-130			
Tetrachloroethene	**10.6**		10.0			106		80-130			
Surrogate:											
Dibromofluoromethane						101		68-133			
Toluene-d8						103		79-123			
4-Bromofluorobenzene						102		78-117			

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

DISSOLVED METALS
EPA 200.7/200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-15D-092225**					
Laboratory ID:	09-323-01					
Iron	**17000**	55	EPA 200.7		9-30-25	
Manganese	**1500**	250	EPA 200.8		9-26-25	
Client ID:	**MW-44R-092325**					
Laboratory ID:	09-323-02					
Iron	**10000**	55	EPA 200.7		9-30-25	
Manganese	**270**	25	EPA 200.8		9-26-25	
Client ID:	**MW-42-092325**					
Laboratory ID:	09-323-03					
Iron	**16000**	55	EPA 200.7		9-30-25	
Manganese	**360**	25	EPA 200.8		9-26-25	
Client ID:	**MW-43R-092325**					
Laboratory ID:	09-323-04					
Iron	**900**	55	EPA 200.7		9-30-25	
Manganese	**1700**	250	EPA 200.8		9-26-25	
Client ID:	**HZ-MW-31-092325**					
Laboratory ID:	09-323-05					
Iron	**33000**	500	EPA 200.7		9-30-25	
Manganese	**290**	25	EPA 200.8		9-26-25	
Client ID:	**MW-39-092325**					
Laboratory ID:	09-323-06					
Iron	**7600**	55	EPA 200.7		9-30-25	
Manganese	**190**	25	EPA 200.8		9-26-25	
Client ID:	**MW-40-092325**					
Laboratory ID:	09-323-07					
Iron	**26000**	55	EPA 200.7		9-30-25	
Manganese	**340**	25	EPA 200.8		9-26-25	

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Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

DISSOLVED METALS
EPA 200.7/200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-140-092325**					
Laboratory ID:	09-323-08					
Iron	**26000**	55	EPA 200.7		9-30-25	
Manganese	**360**	25	EPA 200.8		9-26-25	
Client ID:	**MW-23-092325**					
Laboratory ID:	09-323-09					
Iron	**ND**	55	EPA 200.7		9-30-25	
Manganese	**ND**	10	EPA 200.8		9-26-25	
Client ID:	**MW-27-092325**					
Laboratory ID:	09-323-10					
Iron	**3300**	55	EPA 200.7		9-30-25	
Manganese	**4800**	250	EPA 200.8		9-26-25	
Client ID:	**S-MW-1-092325**					
Laboratory ID:	09-323-11					
Iron	**ND**	55	EPA 200.7		9-30-25	
Manganese	**ND**	10	EPA 200.8		9-26-25	
Client ID:	**MW-29-092325**					
Laboratory ID:	09-323-12					
Iron	**1200**	55	EPA 200.7		9-30-25	
Manganese	**90**	25	EPA 200.8		9-26-25	
Client ID:	**S-MW-3RRR-092325**					
Laboratory ID:	09-323-13					
Iron	**400**	55	EPA 200.7		9-30-25	
Manganese	**400**	25	EPA 200.8		9-26-25	
Client ID:	**HZ-MW-33R-092325**					
Laboratory ID:	09-323-14					
Iron	**ND**	55	EPA 200.7		9-30-25	
Manganese	**54**	25	EPA 200.8		9-26-25	

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Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

DISSOLVED METALS
EPA 200.7/200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-14S-092325**					
Laboratory ID:	09-323-15					
Iron	**4600**	55	EPA 200.7		9-30-25	
Manganese	**700**	250	EPA 200.8		9-26-25	
Client ID:	**HZ-MW-14D-092325**					
Laboratory ID:	09-323-16					
Iron	**690**	55	EPA 200.7		9-30-25	
Manganese	**820**	250	EPA 200.8		9-26-25	

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
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Project: Task 4

DISSOLVED METALS
EPA 200.7/200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0930D1					
Iron	**ND**	50	EPA 200.7		9-30-25	
Laboratory ID:	MB0926D1					
Manganese	**ND**	10	EPA 200.8		9-26-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-323-04										
	ORIG	DUP									
Iron	**900**	**907**	NA	NA		NA		NA	1	20	
Laboratory ID:	09-323-09										
Manganese	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	09-323-04										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**25500**	**25100**	22200	22200	900	**111**	**109**	75-125	2	20	
Laboratory ID:	09-323-09										
Manganese	**188**	**207**	200	200	ND	**94**	**104**	75-125	10	20	
SPIKE BLANK											
Laboratory ID:	SB0930D1										
Iron	**22500**		22200		N/A	**102**		85-115			
Laboratory ID:	SB0926D1										
Manganese	**80.2**		80.0		N/A	**100**		85-115			

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-15D-092225**					
Laboratory ID:	09-323-01					
Ammonia	**26**	0.053	SM 4500-NH3 D	9-29-25	9-29-25	
Client ID:	**MW-44R-092325**					
Laboratory ID:	09-323-02					
Ammonia	**1.6**	0.053	SM 4500-NH3 D	9-29-25	9-29-25	
Client ID:	**MW-42-092325**					
Laboratory ID:	09-323-03					
Ammonia	**8.5**	0.053	SM 4500-NH3 D	9-29-25	9-29-25	
Client ID:	**MW-43R-092325**					
Laboratory ID:	09-323-04					
Ammonia	**0.091**	0.053	SM 4500-NH3 D	9-29-25	9-29-25	
Client ID:	**HZ-MW-31-092325**					
Laboratory ID:	09-323-05					
Ammonia	**0.38**	0.053	SM 4500-NH3 D	9-29-25	9-29-25	
Client ID:	**MW-39-092325**					
Laboratory ID:	09-323-06					
Ammonia	**13**	0.053	SM 4500-NH3 D	9-29-25	9-29-25	
Client ID:	**MW-40-092325**					
Laboratory ID:	09-323-07					
Ammonia	**2.9**	0.053	SM 4500-NH3 D	9-29-25	9-29-25	
Client ID:	**MW-140-092325**					
Laboratory ID:	09-323-08					
Ammonia	**2.4**	0.053	SM 4500-NH3 D	9-29-25	9-29-25	
Client ID:	**MW-23-092325**					
Laboratory ID:	09-323-09					
Ammonia	**ND**	0.053	SM 4500-NH3 D	9-29-25	9-29-25	

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-27-092325**					
Laboratory ID:	09-323-10					
Ammonia	**ND**	0.053	SM 4500-NH3 D	9-29-25	9-29-25	
Client ID:	**S-MW-1-092325**					
Laboratory ID:	09-323-11					
Ammonia	**ND**	0.053	SM 4500-NH3 D	9-29-25	9-29-25	
Client ID:	**MW-29-092325**					
Laboratory ID:	09-323-12					
Ammonia	**0.24**	0.053	SM 4500-NH3 D	9-29-25	9-29-25	
Client ID:	**S-MW-3RRR-092325**					
Laboratory ID:	09-323-13					
Ammonia	**ND**	0.053	SM 4500-NH3 D	9-29-25	9-29-25	
Client ID:	**HZ-MW-33R-092325**					
Laboratory ID:	09-323-14					
Ammonia	**ND**	0.053	SM 4500-NH3 D	9-29-25	9-29-25	
Client ID:	**HZ-MW-14S-092325**					
Laboratory ID:	09-323-15					
Ammonia	**ND**	0.053	SM 4500-NH3 D	9-29-25	9-29-25	
Client ID:	**HZ-MW-14D-092325**					
Laboratory ID:	09-323-16					
Ammonia	**ND**	0.053	SM 4500-NH3 D	9-29-25	9-29-25	

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Project: Task 4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	9-29-25	9-29-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-323-01										
	ORIG	DUP									
Ammonia	**26.3**	**26.2**	NA		NA	NA		NA	0	21	
MATRIX SPIKES											
Laboratory ID:	09-323-01										
	MS	MSD	MS	MSD		MS	MSD				
Ammonia	**31.5**	**30.8**	5.00	5.00	26.3	104	90	76-114	2	20	
SPIKE BLANK											
Laboratory ID:	SB0929W1										
	SB		SB			SB					
Ammonia	**4.86**		5.00		NA	97		81-110	NA	NA	

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
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Project: Task 4

TOTAL ORTHOPHOSPHATE
EPA 365.1

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-15D-092225**					
Laboratory ID:	09-323-01					
Orthophosphate	**14**	0.24	EPA 365.1	9-24-25	9-24-25 9:32	
Client ID:	**MW-44R-092325**					
Laboratory ID:	09-323-02					
Orthophosphate	**1.5**	0.048	EPA 365.1	9-24-25	9-24-25 11:29	
Client ID:	**MW-42-092325**					
Laboratory ID:	09-323-03					
Orthophosphate	**2.9**	0.048	EPA 365.1	9-24-25	9-24-25 10:36	
Client ID:	**MW-43R-092325**					
Laboratory ID:	09-323-04					
Orthophosphate	**0.061**	0.012	EPA 365.1	9-24-25	9-24-25 10:37	
Client ID:	**HZ-MW-31-092325**					
Laboratory ID:	09-323-05					
Orthophosphate	**0.20**	0.012	EPA 365.1	9-24-25	9-24-25 9:33	
Client ID:	**MW-39-092325**					
Laboratory ID:	09-323-06					
Orthophosphate	**7.1**	0.12	EPA 365.1	9-24-25	9-24-25 10:58	
Client ID:	**MW-40-092325**					
Laboratory ID:	09-323-07					
Orthophosphate	**0.57**	0.012	EPA 365.1	9-24-25	9-24-25 10:21	
Client ID:	**MW-140-092325**					
Laboratory ID:	09-323-08					
Orthophosphate	**0.64**	0.012	EPA 365.1	9-24-25	9-24-25 10:22	
Client ID:	**MW-23-092325**					
Laboratory ID:	09-323-09					
Orthophosphate	**ND**	0.012	EPA 365.1	9-24-25	9-24-25 10:23	

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Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

TOTAL ORTHOPHOSPHATE
EPA 365.1

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-27-092325**					
Laboratory ID:	09-323-10					
Orthophosphate	**ND**	0.012	EPA 365.1	9-24-25	9-24-25 10:24	
Client ID:	**S-MW-1-092325**					
Laboratory ID:	09-323-11					
Orthophosphate	**0.050**	0.012	EPA 365.1	9-24-25	9-24-25 10:25	
Client ID:	**MW-29-092325**					
Laboratory ID:	09-323-12					
Orthophosphate	**0.23**	0.012	EPA 365.1	9-24-25	9-24-25 10:26	
Client ID:	**S-MW-3RRR-092325**					
Laboratory ID:	09-323-13					
Orthophosphate	**ND**	0.012	EPA 365.1	9-24-25	9-24-25 10:27	
Client ID:	**HZ-MW-33R-092325**					
Laboratory ID:	09-323-14					
Orthophosphate	**ND**	0.012	EPA 365.1	9-24-25	9-24-25 10:28	
Client ID:	**HZ-MW-14S-092325**					
Laboratory ID:	09-323-15					
Orthophosphate	**0.062**	0.012	EPA 365.1	9-24-25	9-24-25 10:29	
Client ID:	**HZ-MW-14D-092325**					
Laboratory ID:	09-323-16					
Orthophosphate	**0.053**	0.012	EPA 365.1	9-24-25	9-24-25 10:30	

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Samples Submitted: September 23, 2025
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Project: Task 4

TOTAL ORTHOPHOSPHATE
EPA 365.1
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0924W1					
Orthophosphate	**ND**	0.012	EPA 365.1	9-24-25	9-24-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-323-04							
	ORIG DUP							
Orthophosphate	**0.0606 0.0614**	NA	NA	NA	NA	1	18	
MATRIX SPIKE								
Laboratory ID:	09-323-04							
	MS	MS		MS				
Orthophosphate	**0.303**	0.250	0.0606	97	81-112	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0924W1							
	SB	SB		SB				
Orthophosphate	**0.234**	0.250	NA	94	78-110	NA	NA	

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

SULFATE
ASTM D516-16

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-15D-092225**					
Laboratory ID:	09-323-01					
Sulfate	**ND**	5.0	ASTM D516-16	9-30-25	9-30-25	
Client ID:	**MW-44R-092325**					
Laboratory ID:	09-323-02					
Sulfate	**14**	5.0	ASTM D516-16	9-30-25	9-30-25	
Client ID:	**MW-42-092325**					
Laboratory ID:	09-323-03					
Sulfate	**12**	5.0	ASTM D516-16	9-30-25	9-30-25	
Client ID:	**MW-43R-092325**					
Laboratory ID:	09-323-04					
Sulfate	**59**	10	ASTM D516-16	9-30-25	9-30-25	
Client ID:	**HZ-MW-31-092325**					
Laboratory ID:	09-323-05					
Sulfate	**31**	5.0	ASTM D516-16	9-30-25	9-30-25	
Client ID:	**MW-39-092325**					
Laboratory ID:	09-323-06					
Sulfate	**ND**	5.0	ASTM D516-16	9-30-25	9-30-25	
Client ID:	**MW-40-092325**					
Laboratory ID:	09-323-07					
Sulfate	**ND**	5.0	ASTM D516-16	9-30-25	9-30-25	
Client ID:	**MW-140-092325**					
Laboratory ID:	09-323-08					
Sulfate	**5.3**	5.0	ASTM D516-16	9-30-25	9-30-25	
Client ID:	**MW-23-092325**					
Laboratory ID:	09-323-09					
Sulfate	**12**	5.0	ASTM D516-16	9-30-25	9-30-25	

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

SULFATE
ASTM D516-16

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-27-092325**					
Laboratory ID:	09-323-10					
Sulfate	**32**	5.0	ASTM D516-16	9-30-25	9-30-25	
Client ID:	**S-MW-1-092325**					
Laboratory ID:	09-323-11					
Sulfate	**50**	10	ASTM D516-16	9-30-25	9-30-25	
Client ID:	**MW-29-092325**					
Laboratory ID:	09-323-12					
Sulfate	**ND**	5.0	ASTM D516-16	9-30-25	9-30-25	
Client ID:	**S-MW-3RRR-092325**					
Laboratory ID:	09-323-13					
Sulfate	**24**	5.0	ASTM D516-16	9-30-25	9-30-25	
Client ID:	**HZ-MW-33R-092325**					
Laboratory ID:	09-323-14					
Sulfate	**11**	5.0	ASTM D516-16	9-30-25	9-30-25	
Client ID:	**HZ-MW-14S-092325**					
Laboratory ID:	09-323-15					
Sulfate	**26**	5.0	ASTM D516-16	9-30-25	9-30-25	
Client ID:	**HZ-MW-14D-092325**					
Laboratory ID:	09-323-16					
Sulfate	**14**	5.0	ASTM D516-16	9-30-25	9-30-25	

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

SULFATE
ASTM D516-16
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0930W1					
Sulfate	**ND**	5.0	ASTM D516-16	9-30-25	9-30-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-323-01							
	ORIG DUP							
Sulfate	**ND** **ND**	NA	NA	NA	NA	NA	11	
MATRIX SPIKE								
Laboratory ID:	09-323-01							
	MS	MS		MS				
Sulfate	**10.7**	10.0	ND	107	70-131	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0930W1							
	SB	SB		SB				
Sulfate	**8.88**	10.0	NA	89	83-113	NA	NA	

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-15D-092225**					
Laboratory ID:	09-323-01					
Nitrate	**ND**	0.050	EPA 353.2	9-23-25	9-23-25	
Client ID:	**MW-44R-092325**					
Laboratory ID:	09-323-02					
Nitrate	**ND**	0.050	EPA 353.2	9-23-25	9-23-25	
Client ID:	**MW-42-092325**					
Laboratory ID:	09-323-03					
Nitrate	**0.064**	0.050	EPA 353.2	9-23-25	9-23-25	
Client ID:	**MW-43R-092325**					
Laboratory ID:	09-323-04					
Nitrate	**0.86**	0.050	EPA 353.2	9-23-25	9-23-25	
Client ID:	**HZ-MW-31-092325**					
Laboratory ID:	09-323-05					
Nitrate	**0.12**	0.050	EPA 353.2	9-23-25	9-23-25	
Client ID:	**MW-39-092325**					
Laboratory ID:	09-323-06					
Nitrate	**ND**	0.050	EPA 353.2	9-23-25	9-23-25	
Client ID:	**MW-40-092325**					
Laboratory ID:	09-323-07					
Nitrate	**ND**	0.050	EPA 353.2	9-23-25	9-23-25	
Client ID:	**MW-140-092325**					
Laboratory ID:	09-323-08					
Nitrate	**ND**	0.050	EPA 353.2	9-23-25	9-23-25	
Client ID:	**MW-23-092325**					
Laboratory ID:	09-323-09					
Nitrate	**5.1**	0.10	EPA 353.2	9-23-25	9-23-25	

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-27-092325**					
Laboratory ID:	09-323-10					
Nitrate	**ND**	0.050	EPA 353.2	9-23-25	9-23-25	
Client ID:	**S-MW-1-092325**					
Laboratory ID:	09-323-11					
Nitrate	**1.8**	0.050	EPA 353.2	9-23-25	9-23-25	
Client ID:	**MW-29-092325**					
Laboratory ID:	09-323-12					
Nitrate	**ND**	0.050	EPA 353.2	9-23-25	9-23-25	
Client ID:	**S-MW-3RRR-092325**					
Laboratory ID:	09-323-13					
Nitrate	**0.085**	0.050	EPA 353.2	9-23-25	9-23-25	
Client ID:	**HZ-MW-33R-092325**					
Laboratory ID:	09-323-14					
Nitrate	**0.19**	0.050	EPA 353.2	9-23-25	9-23-25	
Client ID:	**HZ-MW-14S-092325**					
Laboratory ID:	09-323-15					
Nitrate	**ND**	0.050	EPA 353.2	9-23-25	9-23-25	
Client ID:	**HZ-MW-14D-092325**					
Laboratory ID:	09-323-16					
Nitrate	**ND**	0.050	EPA 353.2	9-23-25	9-23-25	

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W2					
Nitrate	**ND**	0.050	EPA 353.2	9-23-25	9-23-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-323-01								
	ORIG	DUP							
Nitrate	**ND**	**ND**	NA	NA	NA	NA	NA	23	
MATRIX SPIKE									
Laboratory ID:	09-323-01								
	MS		MS		MS				
Nitrate	**2.17**		2.00	ND	109	74-130	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0923W2								
	SB		SB		SB				
Nitrate	**2.37**		2.00	NA	119	82-128	NA	NA	

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-15D-092225**					
Laboratory ID:	09-323-01					
Methane	**6200**	42	RSK 175	9-26-25	9-26-25	
Ethane	**ND**	0.56	RSK 175	9-26-25	9-26-25	
Ethene	**ND**	0.58	RSK 175	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*66*	*50-150*				
Client ID:	**MW-44R-092325**					
Laboratory ID:	09-323-02					
Methane	**1100**	11	RSK 175	9-26-25	9-26-25	
Ethane	**0.88**	0.56	RSK 175	9-26-25	9-26-25	
Ethene	**ND**	0.58	RSK 175	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*72*	*50-150*				
Client ID:	**MW-42-092325**					
Laboratory ID:	09-323-03					
Methane	**5700**	42	RSK 175	9-26-25	9-26-25	
Ethane	**ND**	0.56	RSK 175	9-26-25	9-26-25	
Ethene	**ND**	0.58	RSK 175	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*71*	*50-150*				
Client ID:	**MW-43R-092325**					
Laboratory ID:	09-323-04					
Methane	**1300**	11	RSK 175	9-26-25	9-26-25	
Ethane	**ND**	0.56	RSK 175	9-26-25	9-26-25	
Ethene	**ND**	0.58	RSK 175	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*79*	*50-150*				
Client ID:	**HZ-MW-31-092325**					
Laboratory ID:	09-323-05					
Methane	**210**	2.2	RSK 175	9-26-25	9-26-25	
Ethane	**ND**	0.56	RSK 175	9-26-25	9-26-25	
Ethene	**ND**	0.58	RSK 175	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*81*	*50-150*				

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-39-092325**					
Laboratory ID:	09-323-06					
Methane	**8500**	55	RSK 175	9-26-25	9-26-25	
Ethane	**ND**	0.56	RSK 175	9-26-25	9-26-25	
Ethene	**ND**	0.58	RSK 175	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*75*	*50-150*				
Client ID:	**MW-40-092325**					
Laboratory ID:	09-323-07					
Methane	**420**	5.5	RSK 175	9-26-25	9-26-25	
Ethane	**4.0**	0.56	RSK 175	9-26-25	9-26-25	
Ethene	**140**	0.58	RSK 175	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*80*	*50-150*				
Client ID:	**MW-140-092325**					
Laboratory ID:	09-323-08					
Methane	**430**	5.5	RSK 175	9-26-25	9-26-25	
Ethane	**5.8**	0.56	RSK 175	9-26-25	9-26-25	
Ethene	**150**	0.58	RSK 175	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*87*	*50-150*				
Client ID:	**MW-23-092325**					
Laboratory ID:	09-323-09					
Methane	**12**	0.55	RSK 175	9-26-25	9-26-25	
Ethane	**ND**	0.56	RSK 175	9-26-25	9-26-25	
Ethene	**ND**	0.58	RSK 175	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*92*	*50-150*				
Client ID:	**MW-27-092325**					
Laboratory ID:	09-323-10					
Methane	**2100**	33	RSK 175	9-26-25	9-26-25	
Ethane	**ND**	0.56	RSK 175	9-26-25	9-26-25	
Ethene	**ND**	0.58	RSK 175	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*84*	*50-150*				

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
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Project: Task 4

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-1-092325**					
Laboratory ID:	09-323-11					
Methane	**51**	0.55	RSK 175	9-26-25	9-26-25	
Ethane	**ND**	0.56	RSK 175	9-26-25	9-26-25	
Ethene	**ND**	0.58	RSK 175	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*87*	*50-150*				
Client ID:	**MW-29-092325**					
Laboratory ID:	09-323-12					
Methane	**440**	5.5	RSK 175	9-26-25	9-26-25	
Ethane	**ND**	0.56	RSK 175	9-26-25	9-26-25	
Ethene	**ND**	0.58	RSK 175	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*93*	*50-150*				
Client ID:	**S-MW-3RRR-092325**					
Laboratory ID:	09-323-13					
Methane	**4400**	33	RSK 175	9-26-25	9-26-25	
Ethane	**ND**	0.56	RSK 175	9-26-25	9-26-25	
Ethene	**ND**	0.58	RSK 175	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*86*	*50-150*				
Client ID:	**HZ-MW-33R-092325**					
Laboratory ID:	09-323-14					
Methane	**220**	2.8	RSK 175	9-26-25	9-26-25	
Ethane	**ND**	0.56	RSK 175	9-26-25	9-26-25	
Ethene	**ND**	0.58	RSK 175	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*93*	*50-150*				
Client ID:	**HZ-MW-14S-092325**					
Laboratory ID:	09-323-15					
Methane	**2100**	17	RSK 175	9-26-25	9-26-25	
Ethane	**ND**	0.56	RSK 175	9-26-25	9-26-25	
Ethene	**ND**	0.58	RSK 175	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*82*	*50-150*				

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Samples Submitted: September 23, 2025
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Project: Task 4

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-14D-092325**					
Laboratory ID:	09-323-16					
Methane	**590**	5.5	RSK 175	9-26-25	9-26-25	
Ethane	**ND**	0.56	RSK 175	9-26-25	9-26-25	
Ethene	**ND**	0.58	RSK 175	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*83*	*50-150*				

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Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926W1					
Methane	**ND**	0.55	RSK 175	9-26-25	9-26-25	
Ethane	**ND**	0.56	RSK 175	9-26-25	9-26-25	
Ethene	**ND**	0.58	RSK 175	9-26-25	9-26-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*95*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0926W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**40.8**	**41.0**	44.2	44.2	92	93	75-125	0	25	
Ethane	**74.9**	**75.2**	83.2	83.2	90	90	75-125	0	25	
Ethene	**64.3**	**65.3**	77.7	77.7	83	84	75-125	2	25	
Surrogate:										
1-Butene					*88*	*88*	*50-150*			

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Project: Task 4

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-15D-092225**					
Laboratory ID:	09-323-01					
Total Organic Carbon	**22**	1.0	SM 5310B	9-24-25	9-24-25	
Client ID:	**MW-44R-092325**					
Laboratory ID:	09-323-02					
Total Organic Carbon	**7.7**	1.0	SM 5310B	9-24-25	9-24-25	
Client ID:	**MW-42-092325**					
Laboratory ID:	09-323-03					
Total Organic Carbon	**2.9**	1.0	SM 5310B	9-24-25	9-24-25	
Client ID:	**MW-43R-092325**					
Laboratory ID:	09-323-04					
Total Organic Carbon	**3.0**	1.0	SM 5310B	9-24-25	9-24-25	
Client ID:	**HZ-MW-31-092325**					
Laboratory ID:	09-323-05					
Total Organic Carbon	**6.7**	1.0	SM 5310B	9-24-25	9-24-25	
Client ID:	**MW-39-092325**					
Laboratory ID:	09-323-06					
Total Organic Carbon	**16**	1.0	SM 5310B	9-24-25	9-26-25	
Client ID:	**MW-40-092325**					
Laboratory ID:	09-323-07					
Total Organic Carbon	**6.5**	1.0	SM 5310B	9-24-25	9-24-25	
Client ID:	**MW-140-092325**					
Laboratory ID:	09-323-08					
Total Organic Carbon	**6.5**	1.0	SM 5310B	9-24-25	9-24-25	
Client ID:	**MW-23-092325**					
Laboratory ID:	09-323-09					
Total Organic Carbon	**1.2**	1.0	SM 5310B	9-24-25	9-24-25	

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
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Project: Task 4

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-27-092325**					
Laboratory ID:	09-323-10					
Total Organic Carbon	**1.4**	1.0	SM 5310B	9-24-25	9-24-25	
Client ID:	**S-MW-1-092325**					
Laboratory ID:	09-323-11					
Total Organic Carbon	**1.1**	1.0	SM 5310B	9-24-25	9-24-25	
Client ID:	**MW-29-092325**					
Laboratory ID:	09-323-12					
Total Organic Carbon	**1.5**	1.0	SM 5310B	9-24-25	9-24-25	
Client ID:	**S-MW-3RRR-092325**					
Laboratory ID:	09-323-13					
Total Organic Carbon	**1.1**	1.0	SM 5310B	9-24-25	9-26-25	
Client ID:	**HZ-MW-33R-092325**					
Laboratory ID:	09-323-14					
Total Organic Carbon	**ND**	1.0	SM 5310B	9-24-25	9-26-25	
Client ID:	**HZ-MW-14S-092325**					
Laboratory ID:	09-323-15					
Total Organic Carbon	**1.9**	1.0	SM 5310B	9-24-25	9-26-25	
Client ID:	**HZ-MW-14D-092325**					
Laboratory ID:	09-323-16					
Total Organic Carbon	**3.1**	1.0	SM 5310B	9-24-25	9-26-25	

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Date of Report: October 2, 2025
Samples Submitted: September 23, 2025
Laboratory Reference: 2509-323
Project: Task 4

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0924W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	9-24-25	9-24-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-326-14										
	ORIG	DUP									
Total Organic Carbon	**23.2**	**23.3**	NA		NA	NA		NA	0	10	
MATRIX SPIKES											
Laboratory ID:	09-326-14										
	MS	MSD	MS	MSD		MS	MSD				
Total Organic Carbon	**34.9**	**35.8**	10.0	10.0	23.2	117	126	70-136	3	20	
SPIKE BLANK											
Laboratory ID:	SB0924W1										
	SB		SB			SB					
Total Organic Carbon	**11.4**		10.0		NA	114		83-130	NA	NA	

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

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

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Chain of Custody

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

Company: Floyd|Snider
Project Number: Task 4
Project Name: Bothell Service Center
Project Manager: Gabe Cisneros
Sampled by: Danielle Gallacher

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

Laboratory Number: 09-323

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260 *	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	~~Total~~ Dissolved RCRA Metals ~~Total~~ Fe + Mn	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Ammonia	CP1504/N03	MEE RSK 175	TOC	% Moisture
1	HZ-MW-15D-092225	9/22/25	13:25	GW	9					X									X				X	X	X	X	
2	MW-44R-092325	9/23/25	08:45		9					X									X				X	X	X	X	
3	MW-42-092325		08:40		9					X									X				X	X	X	X	
4	MW-43R-092325		08:45		9					X									X				X	X	X	X	
5	HZ-MW-31-092325		09:50		9					X									X				X	X	X	X	
6	MW-39-092325		09:55		9					X									X				X	X	X	X	
7	MW-40-092325		09:50		9					X									X				X	X	X	X	
8	MW-140-092325		10:00		9					X									X				X	X	X	X	
9	MW-23-092325		11:00		9					X									X				X	X	X	X	
10	MW-27-092325	↓	11:00	↓	9					X									X				X	X	X	X	

	Signature	Company	Date	Time
Relinquished	Danielle Gallacher	Floyd|Snider	9/23/25	15:03
Received	Stephanie Reynolds	Alpha/Speedy	9/23/25	15:03
Relinquished	Stephanie Reynolds	Alpha/Speedy	9/23/25	15:24
Received	[illegible]	OSE	9/23/25	1524
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
* Only PCE, TCE, cis-1,2-DCE, 1,1-DCE & VC
Send lab results to: labdata@floydsnider.com

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

Chain of Custody

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

Company: Floyd | Snider
Project Number: Task 4
Project Name: Bothell Service Center
Project Manager: Gabe Cisneros
Sampled by: Danielle Gallacher

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

Laboratory Number: 09-323

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260 ★	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	~~Total~~ Dissolved ~~Total~~ Fe + Mn	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Ammonia	OP/SO4/NO3	MEE RSK 175	TOC	% Moisture
11	S-MW-1-092325	9/23/25	11:10	GW	9					X									X				X	X	X	X	
12	MW-29-092325		12:50		9					X									X				X	X	X	X	
13	S-MW-3RR-092325		13:00		9					X									X				X	X	X	X	
14	HZ-MW-33R-092325		13:20		9					X									X				X	X	X	X	
15	HZ-MW-14S-092325		14:15		9					X									X				X	X	X	X	
16	HZ-MW-14D-092325		14:20	↓	9					X									X				X	X	X	X	
17	Trip Blank-092325	↓	08:00	W	2					X																	

	Signature	Company	Date	Time
Relinquished	[signature]	Floyd | Snider	9/23/25	15:03
Received	[signature]	Alpha | Speedy	9/23/25	15:02
Relinquished	[signature]		9/23/25	1524
Received	[signature]	[signature]	9/23/25	1524
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
★ Only PCE, TCE, cis-1,2-DCE, 1,1-DCE & VC
Send lab results to: labdata@floydsnider.com

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

Sample/Cooler Receipt and Acceptance Checklist

Client: FLS

Client Project Name/Number: Task 4

OnSite Project Number: 09-323

Initiated by: JMV

Date Initiated: 9/23/15

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	(No)	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	(N/A)	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	(N/A)	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	(Yes)	No	N/A	1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	(Yes)	No	N/A	Temperature:	6, 5, 4
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	(N/A)			
1.7 How were the samples delivered?	Client	(Courier)	UPS/FedEx	OSE Pickup	Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	(Yes)	No	1 2 3 4	
2.2 Was the COC legible and written in permanent ink?	(Yes)	No	1 2 3 4	
2.3 Have samples been relinquished and accepted by each custodian?	(Yes)	No	1 2 3 4	
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	(Yes)	No	1 2 3 4	
2.5 Were all of the samples listed on the COC submitted?	(Yes)	No	1 2 3 4	
2.6 Were any of the samples submitted omitted from the COC?	Yes	(No)	1 2 3 4	

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	(No)		1 2 3 4	
3.2 Were any sample labels missing or illegible?	Yes	(No)		1 2 3 4	
3.3 Have the correct containers been used for each analysis requested?	(Yes)	No		1 2 3 4	
3.4 Have the samples been correctly preserved?	(Yes)	No	N/A	1 2 3 4	
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	(Yes)	No	N/A	1 2 3 4	
3.6 Is there sufficient sample submitted to perform requested analyses?	(Yes)	No		1 2 3 4	
3.7 Have any holding times already expired or will expire in 24 hours?	(Yes)	No		1 2 3 4	
3.8 Was method 5035A used?	Yes	No	(N/A)	1 2 3 4	
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		(N/A)	1 2 3 4	

Explain any discrepancies:

3.7) OP, NO3

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

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

October 2, 2025

Gabe Cisneros
Floyd & Snider
601 Union Street, Suite 600
Seattle, WA 98101

Re: Analytical Data for Project Bothell Service Center, Task 4
Laboratory Reference No. 2509-339

Dear Gabe:

Enclosed are the analytical results and associated quality control data for samples submitted on September 24, 2025.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 2, 2025
Samples Submitted: September 24, 2025
Laboratory Reference: 2509-339
Project: Bothell Service Center, Task 4

Case Narrative

Samples were collected on September 24, 2025 and received by the laboratory on September 24, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

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

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and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 2, 2025
Samples Submitted: September 24, 2025
Laboratory Reference: 2509-339
Project: Bothell Service Center, Task 4

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-34-092425**					
Laboratory ID:	09-339-01					
Vinyl Chloride	0.98	0.20	EPA 8260D	9-28-25	9-28-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-28-25	9-28-25	
(cis) 1,2-Dichloroethene	7.4	0.20	EPA 8260D	9-28-25	9-28-25	
Trichloroethene	1.6	0.20	EPA 8260D	9-28-25	9-28-25	
Tetrachloroethene	0.38	0.20	EPA 8260D	9-28-25	9-28-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*101*	*78-117*				
Client ID:	**HZ-MW-1-092425**					
Laboratory ID:	09-339-02					
Vinyl Chloride	6.5	0.20	EPA 8260D	9-28-25	9-28-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-28-25	9-28-25	
(cis) 1,2-Dichloroethene	6.3	0.20	EPA 8260D	9-28-25	9-28-25	
Trichloroethene	ND	0.20	EPA 8260D	9-28-25	9-28-25	
Tetrachloroethene	ND	0.20	EPA 8260D	9-28-25	9-28-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*68-133*				
Toluene-d8	*102*	*79-123*				
4-Bromofluorobenzene	*101*	*78-117*				
Client ID:	**HZ-MW-26-092425**					
Laboratory ID:	09-339-03					
Vinyl Chloride	ND	0.40	EPA 8260D	9-28-25	9-28-25	
1,1-Dichloroethene	ND	0.40	EPA 8260D	9-28-25	9-28-25	
(cis) 1,2-Dichloroethene	5.2	0.40	EPA 8260D	9-28-25	9-28-25	
Trichloroethene	0.56	0.40	EPA 8260D	9-28-25	9-28-25	
Tetrachloroethene	52	0.40	EPA 8260D	9-28-25	9-28-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*68-133*				
Toluene-d8	*103*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				

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Date of Report: October 2, 2025
Samples Submitted: September 24, 2025
Laboratory Reference: 2509-339
Project: Bothell Service Center, Task 4

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-24-092425**					
Laboratory ID:	09-339-04					
Vinyl Chloride	0.73	0.40	EPA 8260D	9-28-25	9-28-25	
1,1-Dichloroethene	ND	0.40	EPA 8260D	9-28-25	9-28-25	
(cis) 1,2-Dichloroethene	29	0.40	EPA 8260D	9-28-25	9-28-25	
Trichloroethene	19	0.40	EPA 8260D	9-28-25	9-28-25	
Tetrachloroethene	45	0.40	EPA 8260D	9-28-25	9-28-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*68-133*				
Toluene-d8	*100*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				
Client ID:	**MW-7-092425**					
Laboratory ID:	09-339-05					
Vinyl Chloride	170	2.0	EPA 8260D	9-28-25	9-28-25	
1,1-Dichloroethene	ND	2.0	EPA 8260D	9-28-25	9-28-25	
(cis) 1,2-Dichloroethene	400	4.0	EPA 8260D	9-29-25	9-29-25	
Trichloroethene	ND	2.0	EPA 8260D	9-28-25	9-28-25	
Tetrachloroethene	ND	2.0	EPA 8260D	9-28-25	9-28-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*100*	*78-117*				
Client ID:	**MW-107-092425**					
Laboratory ID:	09-339-06					
Vinyl Chloride	120	4.0	EPA 8260D	9-28-25	9-28-25	
1,1-Dichloroethene	ND	4.0	EPA 8260D	9-28-25	9-28-25	
(cis) 1,2-Dichloroethene	420	4.0	EPA 8260D	9-28-25	9-28-25	
Trichloroethene	6.3	4.0	EPA 8260D	9-28-25	9-28-25	
Tetrachloroethene	5.9	4.0	EPA 8260D	9-28-25	9-28-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*68-133*				
Toluene-d8	*111*	*79-123*				
4-Bromofluorobenzene	*104*	*78-117*				

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Date of Report: October 2, 2025
Samples Submitted: September 24, 2025
Laboratory Reference: 2509-339
Project: Bothell Service Center, Task 4

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-6-092425**					
Laboratory ID:	09-339-07					
Vinyl Chloride	3.1	0.20	EPA 8260D	9-28-25	9-28-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-28-25	9-28-25	
(cis) 1,2-Dichloroethene	2.0	0.20	EPA 8260D	9-28-25	9-28-25	
Trichloroethene	0.49	0.20	EPA 8260D	9-28-25	9-28-25	
Tetrachloroethene	ND	0.20	EPA 8260D	9-28-25	9-28-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*101*	*79-123*				
4-Bromofluorobenzene	*101*	*78-117*				
Client ID:	**MW-12-092425**					
Laboratory ID:	09-339-08					
Vinyl Chloride	75	2.0	EPA 8260D	9-28-25	9-28-25	
1,1-Dichloroethene	2.4	2.0	EPA 8260D	9-28-25	9-28-25	
(cis) 1,2-Dichloroethene	260	2.0	EPA 8260D	9-28-25	9-28-25	
Trichloroethene	21	2.0	EPA 8260D	9-28-25	9-28-25	
Tetrachloroethene	ND	2.0	EPA 8260D	9-28-25	9-28-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*109*	*79-123*				
4-Bromofluorobenzene	*106*	*78-117*				
Client ID:	**HZ-MW-29-092425**					
Laboratory ID:	09-339-09					
Vinyl Chloride	6.4	0.20	EPA 8260D	9-28-25	9-28-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-28-25	9-28-25	
(cis) 1,2-Dichloroethene	21	0.20	EPA 8260D	9-28-25	9-28-25	
Trichloroethene	ND	0.20	EPA 8260D	9-28-25	9-28-25	
Tetrachloroethene	ND	0.20	EPA 8260D	9-28-25	9-28-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*68-133*				
Toluene-d8	*104*	*79-123*				
4-Bromofluorobenzene	*104*	*78-117*				

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Date of Report: October 2, 2025
Samples Submitted: September 24, 2025
Laboratory Reference: 2509-339
Project: Bothell Service Center, Task 4

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank-092425**					
Laboratory ID:	09-339-10					
Vinyl Chloride	ND	0.20	EPA 8260D	9-28-25	9-28-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-28-25	9-28-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-28-25	9-28-25	
Trichloroethene	ND	0.20	EPA 8260D	9-28-25	9-28-25	
Tetrachloroethene	ND	0.20	EPA 8260D	9-28-25	9-28-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*68-133*				
Toluene-d8	*102*	*79-123*				
4-Bromofluorobenzene	*101*	*78-117*				

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Date of Report: October 2, 2025
Samples Submitted: September 24, 2025
Laboratory Reference: 2509-339
Project: Bothell Service Center, Task 4

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0928W1					
Vinyl Chloride	ND	0.20	EPA 8260D	9-28-25	9-28-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-28-25	9-28-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-28-25	9-28-25	
Trichloroethene	ND	0.20	EPA 8260D	9-28-25	9-28-25	
Tetrachloroethene	ND	0.20	EPA 8260D	9-28-25	9-28-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*68-133*				
Toluene-d8	*99*	*79-123*				
4-Bromofluorobenzene	*97*	*78-117*				
Laboratory ID:	MB0929W1					
Vinyl Chloride	ND	0.20	EPA 8260D	9-29-25	9-29-25	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-29-25	9-29-25	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-29-25	9-29-25	
Trichloroethene	ND	0.20	EPA 8260D	9-29-25	9-29-25	
Tetrachloroethene	ND	0.20	EPA 8260D	9-29-25	9-29-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*68-133*				
Toluene-d8	*103*	*79-123*				
4-Bromofluorobenzene	*99*	*78-117*				

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Date of Report: October 2, 2025
Samples Submitted: September 24, 2025
Laboratory Reference: 2509-339
Project: Bothell Service Center, Task 4

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	09-300-01										
	MS	MSD	MS	MSD		MS	MSD				
Vinyl Chloride	**8.15**	**9.36**	10.0	10.0	ND	82	94	69-126	14	16	
1,1-Dichloroethene	**8.95**	**10.4**	10.0	10.0	ND	90	104	73-125	15	15	
(cis) 1,2-Dichloroethene	**9.78**	**11.0**	10.0	10.0	ND	98	110	71-130	12	16	
Trichloroethene	**10.6**	**10.9**	10.0	10.0	0.569	100	103	74-134	3	12	
Tetrachloroethene	**23.1**	**21.2**	10.0	10.0	11	121	102	78-132	9	22	
Surrogate:											
Dibromofluoromethane						*99*	*101*	*68-133*			
Toluene-d8						*103*	*103*	*79-123*			
4-Bromofluorobenzene						*103*	*102*	*78-117*			
Laboratory ID:	09-348-01										
	MS	MSD	MS	MSD		MS	MSD				
Vinyl Chloride	**48.4**	**46.0**	50.0	50.0	ND	97	92	69-126	5	16	
1,1-Dichloroethene	**55.4**	**53.0**	50.0	50.0	ND	111	106	73-125	4	15	
(cis) 1,2-Dichloroethene	**59.1**	**56.1**	50.0	50.0	ND	118	112	71-130	5	16	
Trichloroethene	**57.2**	**56.3**	50.0	50.0	ND	114	113	74-134	2	12	
Tetrachloroethene	**54.1**	**52.5**	50.0	50.0	ND	108	105	78-132	3	22	
Surrogate:											
Dibromofluoromethane						*103*	*102*	*68-133*			
Toluene-d8						*105*	*103*	*79-123*			
4-Bromofluorobenzene						*103*	*102*	*78-117*			

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Date of Report: October 2, 2025
Samples Submitted: September 24, 2025
Laboratory Reference: 2509-339
Project: Bothell Service Center, Task 4

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	Spike Level	Percent Recovery	Recovery Limits	Flags
SPIKE BLANK					
Laboratory ID:	SB0928W1				
Vinyl Chloride	**9.76**	10.0	98	67-131	
1,1-Dichloroethene	**10.4**	10.0	104	77-125	
(cis) 1,2-Dichloroethene	**10.8**	10.0	108	77-129	
Trichloroethene	**10.5**	10.0	105	80-130	
Tetrachloroethene	**10.8**	10.0	108	80-130	
Surrogate:					
Dibromofluoromethane			96	68-133	
Toluene-d8			101	79-123	
4-Bromofluorobenzene			101	78-117	
Laboratory ID:	SB0929W1				
Vinyl Chloride	**9.53**	10.0	95	67-131	
1,1-Dichloroethene	**11.0**	10.0	110	77-125	
(cis) 1,2-Dichloroethene	**11.7**	10.0	117	77-129	
Trichloroethene	**10.9**	10.0	109	80-130	
Tetrachloroethene	**10.6**	10.0	106	80-130	
Surrogate:					
Dibromofluoromethane			101	68-133	
Toluene-d8			103	79-123	
4-Bromofluorobenzene			102	78-117	

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Date of Report: October 2, 2025
Samples Submitted: September 24, 2025
Laboratory Reference: 2509-339
Project: Bothell Service Center, Task 4

DISSOLVED METALS
EPA 200.7/200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-34-092425**					
Laboratory ID:	09-339-01					
Iron	**2200**	55	EPA 200.7		9-30-25	
Manganese	**670**	250	EPA 200.8		9-25-25	
Client ID:	**HZ-MW-1-092425**					
Laboratory ID:	09-339-02					
Iron	**12000**	55	EPA 200.7		9-30-25	
Manganese	**6200**	500	EPA 200.8		9-25-25	
Client ID:	**HZ-MW-26-092425**					
Laboratory ID:	09-339-03					
Iron	**ND**	55	EPA 200.7		9-30-25	
Manganese	**83**	25	EPA 200.8		9-25-25	
Client ID:	**HZ-MW-24-092425**					
Laboratory ID:	09-339-04					
Iron	**8500**	55	EPA 200.7		9-30-25	
Manganese	**3900**	250	EPA 200.8		9-25-25	
Client ID:	**MW-7-092425**					
Laboratory ID:	09-339-05					
Iron	**20000**	55	EPA 200.7		9-30-25	
Manganese	**810**	250	EPA 200.8		9-25-25	
Client ID:	**MW-107-092425**					
Laboratory ID:	09-339-06					
Iron	**19000**	55	EPA 200.7		9-30-25	
Manganese	**730**	250	EPA 200.8		9-25-25	
Client ID:	**MW-6-092425**					
Laboratory ID:	09-339-07					
Iron	**26000**	55	EPA 200.7		9-30-25	
Manganese	**2700**	250	EPA 200.8		9-25-25	

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Samples Submitted: September 24, 2025
Laboratory Reference: 2509-339
Project: Bothell Service Center, Task 4

DISSOLVED METALS
EPA 200.7/200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-12-092425**					
Laboratory ID:	09-339-08					
Iron	**16000**	55	EPA 200.7		9-30-25	
Manganese	**3800**	250	EPA 200.8		9-25-25	
Client ID:	**HZ-MW-29-092425**					
Laboratory ID:	09-339-09					
Iron	**6100**	55	EPA 200.7		9-30-25	
Manganese	**1500**	250	EPA 200.8		9-25-25	

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Date of Report: October 2, 2025
Samples Submitted: September 24, 2025
Laboratory Reference: 2509-339
Project: Bothell Service Center, Task 4

DISSOLVED METALS
EPA 200.7/200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0930D2					
Iron	**ND**	50	EPA 200.7		9-30-25	
Laboratory ID:	MB0925D1					
Manganese	**ND**	10	EPA 200.8		9-25-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-286-03										
	ORIG	DUP									
Iron	**1430**	**1390**	NA	NA		NA		NA	3	20	
Laboratory ID:	09-286-11										
Manganese	**235**	**252**	NA	NA		NA		NA	7	20	
MATRIX SPIKES											
Laboratory ID:	09-286-03										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**24700**	**24500**	22200	22200	1430	**105**	**104**	75-125	1	20	
Laboratory ID:	09-286-11										
Manganese	**393**	**399**	200	200	235	**79**	**82**	75-125	2	20	
SPIKE BLANK											
Laboratory ID:	SB0930D2										
Iron	**21500**		22200		N/A	**97**		85-115			
Laboratory ID:	SB0925D1										
Manganese	**79.4**		80.0		N/A	**99**		85-115			

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Date of Report: October 2, 2025
Samples Submitted: September 24, 2025
Laboratory Reference: 2509-339
Project: Bothell Service Center, Task 4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-34-092425**					
Laboratory ID:	09-339-01					
Ammonia	**0.061**	0.053	SM 4500-NH3 D	9-26-25	9-26-25	
Client ID:	**HZ-MW-1-092425**					
Laboratory ID:	09-339-02					
Ammonia	**0.063**	0.053	SM 4500-NH3 D	9-26-25	9-26-25	
Client ID:	**HZ-MW-26-092425**					
Laboratory ID:	09-339-03					
Ammonia	**ND**	0.053	SM 4500-NH3 D	9-26-25	9-26-25	
Client ID:	**HZ-MW-24-092425**					
Laboratory ID:	09-339-04					
Ammonia	**0.22**	0.053	SM 4500-NH3 D	9-26-25	9-26-25	
Client ID:	**MW-7-092425**					
Laboratory ID:	09-339-05					
Ammonia	**0.10**	0.053	SM 4500-NH3 D	9-26-25	9-26-25	
Client ID:	**MW-107-092425**					
Laboratory ID:	09-339-06					
Ammonia	**ND**	0.053	SM 4500-NH3 D	9-26-25	9-26-25	
Client ID:	**MW-6-092425**					
Laboratory ID:	09-339-07					
Ammonia	**0.63**	0.053	SM 4500-NH3 D	9-26-25	9-26-25	
Client ID:	**MW-12-092425**					
Laboratory ID:	09-339-08					
Ammonia	**0.064**	0.053	SM 4500-NH3 D	9-26-25	9-26-25	
Client ID:	**HZ-MW-29-092425**					
Laboratory ID:	09-339-09					
Ammonia	**0.15**	0.053	SM 4500-NH3 D	9-26-25	9-26-25	

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Date of Report: October 2, 2025
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Project: Bothell Service Center, Task 4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926W1					
Ammonia	**ND**	0.053	SM 4500-NH3 D	9-26-25	9-26-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-286-01										
	ORIG	DUP									
Ammonia	**ND**	**ND**	NA		NA	NA		NA	NA	21	
MATRIX SPIKES											
Laboratory ID:	09-286-01										
	MS	MSD	MS	MSD		MS	MSD				
Ammonia	**4.51**	**4.47**	5.00	5.00	ND	90	89	76-114	1	20	
SPIKE BLANK											
Laboratory ID:	SB0926W1										
	SB		SB			SB					
Ammonia	**4.35**		5.00		NA	87		81-110	NA	NA	

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TOTAL ORTHOPHOSPHATE
EPA 365.1

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-34-092425**					
Laboratory ID:	09-339-01					
Orthophosphate	**0.16**	0.012	EPA 365.1	9-24-25	9-24-25 16:43	
Client ID:	**HZ-MW-1-092425**					
Laboratory ID:	09-339-02					
Orthophosphate	**0.18**	0.012	EPA 365.1	9-24-25	9-24-25 16:45	
Client ID:	**HZ-MW-26-092425**					
Laboratory ID:	09-339-03					
Orthophosphate	**0.036**	0.012	EPA 365.1	9-24-25	9-24-25 16:46	
Client ID:	**HZ-MW-24-092425**					
Laboratory ID:	09-339-04					
Orthophosphate	**0.072**	0.012	EPA 365.1	9-24-25	9-24-25 16:47	
Client ID:	**MW-7-092425**					
Laboratory ID:	09-339-05					
Orthophosphate	**0.10**	0.012	EPA 365.1	9-24-25	9-24-25 16:48	
Client ID:	**MW-107-092425**					
Laboratory ID:	09-339-06					
Orthophosphate	**0.11**	0.012	EPA 365.1	9-24-25	9-24-25 16:49	
Client ID:	**MW-6-092425**					
Laboratory ID:	09-339-07					
Orthophosphate	**0.81**	0.012	EPA 365.1	9-24-25	9-24-25 17:08	
Client ID:	**MW-12-092425**					
Laboratory ID:	09-339-08					
Orthophosphate	**0.38**	0.012	EPA 365.1	9-24-25	9-24-25 17:09	
Client ID:	**HZ-MW-29-092425**					
Laboratory ID:	09-339-09					
Orthophosphate	**1.3**	0.024	EPA 365.1	9-24-25	9-24-25 17:34	

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TOTAL ORTHOPHOSPHATE
EPA 365.1
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0924W2					
Orthophosphate	**ND**	0.012	EPA 365.1	9-24-25	9-24-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-339-01							
	ORIG DUP							
Orthophosphate	**0.158** **0.142**	NA	NA	NA	NA	11	18	
MATRIX SPIKE								
Laboratory ID:	09-339-01							
	MS	MS		MS				
Orthophosphate	**0.401**	0.250	0.158	97	81-112	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0924W2							
	SB	SB		SB				
Orthophosphate	**0.236**	0.250	NA	94	78-110	NA	NA	

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SULFATE
ASTM D516-16

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-34-092425**					
Laboratory ID:	09-339-01					
Sulfate	**32**	5.0	ASTM D516-16	9-25-25	9-25-25	
Client ID:	**HZ-MW-1-092425**					
Laboratory ID:	09-339-02					
Sulfate	**ND**	5.0	ASTM D516-16	9-25-25	9-25-25	
Client ID:	**HZ-MW-26-092425**					
Laboratory ID:	09-339-03					
Sulfate	**22**	5.0	ASTM D516-16	9-25-25	9-25-25	
Client ID:	**HZ-MW-24-092425**					
Laboratory ID:	09-339-04					
Sulfate	**29**	5.0	ASTM D516-16	9-25-25	9-25-25	
Client ID:	**MW-7-092425**					
Laboratory ID:	09-339-05					
Sulfate	**ND**	5.0	ASTM D516-16	9-25-25	9-25-25	
Client ID:	**MW-107-092425**					
Laboratory ID:	09-339-06					
Sulfate	**ND**	5.0	ASTM D516-16	9-25-25	9-25-25	
Client ID:	**MW-6-092425**					
Laboratory ID:	09-339-07					
Sulfate	**48**	20	ASTM D516-16	9-25-25	9-25-25	
Client ID:	**MW-12-092425**					
Laboratory ID:	09-339-08					
Sulfate	**11**	5.0	ASTM D516-16	9-25-25	9-25-25	
Client ID:	**HZ-MW-29-092425**					
Laboratory ID:	09-339-09					
Sulfate	**21**	5.0	ASTM D516-16	9-25-25	9-25-25	

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SULFATE
ASTM D516-16
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0925W1					
Sulfate	**ND**	5.0	ASTM D516-16	9-25-25	9-25-25	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	09-339-01								
	ORIG	DUP							
Sulfate	**32.0**	**31.9**	NA	NA	NA	NA	0	11	
MATRIX SPIKE									
Laboratory ID:	09-339-01								
	MS		MS		MS				
Sulfate	**52.7**		20.0	32.0	104	70-131	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0925W1								
	SB		SB		SB				
Sulfate	**9.67**		10.0	NA	97	83-113	NA	NA	

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Date of Report: October 2, 2025
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Project: Bothell Service Center, Task 4

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-34-092425**					
Laboratory ID:	09-339-01					
Nitrate	**ND**	0.050	EPA 353.2	9-25-25	9-25-25	
Client ID:	**HZ-MW-1-092425**					
Laboratory ID:	09-339-02					
Nitrate	**0.060**	0.050	EPA 353.2	9-25-25	9-25-25	
Client ID:	**HZ-MW-26-092425**					
Laboratory ID:	09-339-03					
Nitrate	**0.29**	0.050	EPA 353.2	9-25-25	9-25-25	
Client ID:	**HZ-MW-24-092425**					
Laboratory ID:	09-339-04					
Nitrate	**ND**	0.050	EPA 353.2	9-25-25	9-25-25	
Client ID:	**MW-7-092425**					
Laboratory ID:	09-339-05					
Nitrate	**0.053**	0.050	EPA 353.2	9-25-25	9-25-25	
Client ID:	**MW-107-092425**					
Laboratory ID:	09-339-06					
Nitrate	**0.069**	0.050	EPA 353.2	9-25-25	9-25-25	
Client ID:	**MW-6-092425**					
Laboratory ID:	09-339-07					
Nitrate	**ND**	0.050	EPA 353.2	9-25-25	9-25-25	
Client ID:	**MW-12-092425**					
Laboratory ID:	09-339-08					
Nitrate	**0.081**	0.050	EPA 353.2	9-25-25	9-25-25	
Client ID:	**HZ-MW-29-092425**					
Laboratory ID:	09-339-09					
Nitrate	**0.065**	0.050	EPA 353.2	9-25-25	9-25-25	

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NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0925W1					
Nitrate	**ND**	0.050	EPA 353.2	9-25-25	9-25-25	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-339-01							
	ORIG DUP							
Nitrate	**ND** **ND**	NA	NA	NA	NA	NA	23	
MATRIX SPIKE								
Laboratory ID:	09-339-01							
	MS	MS		MS				
Nitrate	**2.25**	2.00	ND	113	74-130	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0925W1							
	SB	SB		SB				
Nitrate	**1.97**	2.00	NA	99	82-128	NA	NA	

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Date of Report: October 2, 2025
Samples Submitted: September 24, 2025
Laboratory Reference: 2509-339
Project: Bothell Service Center, Task 4

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-34-092425**					
Laboratory ID:	09-339-01					
Methane	**81**	0.55	RSK 175	9-30-25	9-30-25	
Ethane	**ND**	0.56	RSK 175	9-30-25	9-30-25	
Ethene	**ND**	0.58	RSK 175	9-30-25	9-30-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*109*	*50-150*				
Client ID:	**HZ-MW-1-092425**					
Laboratory ID:	09-339-02					
Methane	**2700**	33	RSK 175	9-30-25	9-30-25	
Ethane	**ND**	0.56	RSK 175	9-30-25	9-30-25	
Ethene	**ND**	0.58	RSK 175	9-30-25	9-30-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*97*	*50-150*				
Client ID:	**HZ-MW-26-092425**					
Laboratory ID:	09-339-03					
Methane	**52**	0.55	RSK 175	9-30-25	9-30-25	
Ethane	**ND**	0.56	RSK 175	9-30-25	9-30-25	
Ethene	**ND**	0.58	RSK 175	9-30-25	9-30-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*117*	*50-150*				
Client ID:	**HZ-MW-24-092425**					
Laboratory ID:	09-339-04					
Methane	**43**	0.55	RSK 175	9-30-25	9-30-25	
Ethane	**ND**	0.56	RSK 175	9-30-25	9-30-25	
Ethene	**ND**	0.58	RSK 175	9-30-25	9-30-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*122*	*50-150*				
Client ID:	**MW-7-092425**					
Laboratory ID:	09-339-05					
Methane	**3500**	33	RSK 175	9-30-25	9-30-25	
Ethane	**ND**	0.56	RSK 175	9-30-25	9-30-25	
Ethene	**9.7**	0.58	RSK 175	9-30-25	9-30-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*111*	*50-150*				

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Date of Report: October 2, 2025
Samples Submitted: September 24, 2025
Laboratory Reference: 2509-339
Project: Bothell Service Center, Task 4

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-107-092425**					
Laboratory ID:	09-339-06					
Methane	**3300**	33	RSK 175	9-30-25	9-30-25	
Ethane	**ND**	0.56	RSK 175	9-30-25	9-30-25	
Ethene	**12**	0.58	RSK 175	9-30-25	9-30-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*82*	*50-150*				
Client ID:	**MW-6-092425**					
Laboratory ID:	09-339-07					
Methane	**2200**	28	RSK 175	9-30-25	9-30-25	
Ethane	**ND**	0.56	RSK 175	9-30-25	9-30-25	
Ethene	**ND**	0.58	RSK 175	9-30-25	9-30-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*115*	*50-150*				
Client ID:	**MW-12-092425**					
Laboratory ID:	09-339-08					
Methane	**6100**	55	RSK 175	9-30-25	9-30-25	
Ethane	**ND**	0.56	RSK 175	9-30-25	9-30-25	
Ethene	**2.9**	0.58	RSK 175	9-30-25	9-30-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*98*	*50-150*				
Client ID:	**HZ-MW-29-092425**					
Laboratory ID:	09-339-09					
Methane	**10**	0.55	RSK 175	9-30-25	9-30-25	
Ethane	**ND**	0.56	RSK 175	9-30-25	9-30-25	
Ethene	**ND**	0.58	RSK 175	9-30-25	9-30-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*108*	*50-150*				

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Date of Report: October 2, 2025
Samples Submitted: September 24, 2025
Laboratory Reference: 2509-339
Project: Bothell Service Center, Task 4

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0930W1					
Methane	**ND**	0.55	RSK 175	9-30-25	9-30-25	
Ethane	**ND**	0.56	RSK 175	9-30-25	9-30-25	
Ethene	**ND**	0.58	RSK 175	9-30-25	9-30-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
1-Butene	*129*	*50-150*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0930W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**42.9**	**41.9**	44.2	44.2	97	95	75-125	2	25	
Ethane	**82.7**	**80.8**	83.2	83.2	99	97	75-125	2	25	
Ethene	**91.1**	**86.5**	77.7	77.7	117	111	75-125	5	25	
Surrogate:										
1-Butene					*119*	*113*	*50-150*			

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Date of Report: October 2, 2025
Samples Submitted: September 24, 2025
Laboratory Reference: 2509-339
Project: Bothell Service Center, Task 4

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-34-092425**					
Laboratory ID:	09-339-01					
Total Organic Carbon	**ND**	1.0	SM 5310B	9-30-25	9-30-25	
Client ID:	**HZ-MW-1-092425**					
Laboratory ID:	09-339-02					
Total Organic Carbon	**4.3**	1.0	SM 5310B	9-30-25	9-30-25	
Client ID:	**HZ-MW-26-092425**					
Laboratory ID:	09-339-03					
Total Organic Carbon	**ND**	1.0	SM 5310B	9-30-25	9-30-25	
Client ID:	**HZ-MW-24-092425**					
Laboratory ID:	09-339-04					
Total Organic Carbon	**1.7**	1.0	SM 5310B	9-30-25	9-30-25	
Client ID:	**MW-7-092425**					
Laboratory ID:	09-339-05					
Total Organic Carbon	**13**	1.0	SM 5310B	9-30-25	9-30-25	
Client ID:	**MW-107-092425**					
Laboratory ID:	09-339-06					
Total Organic Carbon	**12**	1.0	SM 5310B	9-30-25	9-30-25	
Client ID:	**MW-6-092425**					
Laboratory ID:	09-339-07					
Total Organic Carbon	**9.4**	1.0	SM 5310B	9-30-25	9-30-25	
Client ID:	**MW-12-092425**					
Laboratory ID:	09-339-08					
Total Organic Carbon	**5.8**	1.0	SM 5310B	9-30-25	9-30-25	
Client ID:	**HZ-MW-29-092425**					
Laboratory ID:	09-339-09					
Total Organic Carbon	**ND**	1.0	SM 5310B	9-30-25	9-30-25	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 2, 2025
Samples Submitted: September 24, 2025
Laboratory Reference: 2509-339
Project: Bothell Service Center, Task 4

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0930W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	9-30-25	9-30-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-339-01										
	ORIG	DUP									
Total Organic Carbon	**ND**	**ND**	NA		NA	NA		NA	NA	10	
MATRIX SPIKES											
Laboratory ID:	09-339-01										
	MS	MSD	MS	MSD		MS	MSD				
Total Organic Carbon	**11.9**	**11.8**	10.0	10.0	ND	119	118	70-136	1	20	
SPIKE BLANK											
Laboratory ID:	SB0930W1										
	SB		SB			SB					
Total Organic Carbon	**10.3**		10.0		NA	103		83-130	NA	NA	

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

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

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Chain of Custody

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

Company: Floyd|Snider
Project Number: Task 4
Project Name: Bothell Service Center
Project Manager: Gabe Cisneros
Sampled by: Danielle Gallagher

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

Laboratory Number: 09-339

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260 ★	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	~~Total RCRA Metals~~ Diss Fe+Mn	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Ammonia	DP/SO4/NO3	HFE RSK 175	TOC	% Moisture
1	HZ-MW-34-092425	9/24/25	09:15	GW	9					X									X				X	X	X	X	
2	HZ-MW-1-092425		11:15		9					X									X				X	X	X	X	
3	~~HZ-MW-26~~ HZ-MW-26-092425		09:15		9					X									X				X	X	X	X	
4	HZ-MW-24-092425		09:20		9					X									X				X	X	X	X	
5	MW-7-092425		10:30		9					X									X				X	X	X	X	
6	MW-107-092425		10:45		9					X									X				X	X	X	X	
7	MW-6-092425		10:40		9					X									X				X	X	X	X	
8	MW-12-092425		11:45		9					X									X				X	X	X	X	
9	HZ-MW-29-092425		13:40	↓	9					X									X				X	X	X	X	
10	Trip Blank-092425	↓	08:00	W	2					X																	

	Signature	Company	Date	Time
Relinquished	[signature]	FS	9/24/25	1430
Received	Jordan Prell	OSE	9/24/25	1436
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
★ Only PCE, TCE, cis-1,2-DCE, 1,1-DCE & VC
Send lab results to: labdata@floydsnider.com

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

Sample/Cooler Receipt and Acceptance Checklist

Client: FLS

Client Project Name/Number: Task 4

OnSite Project Number: 09-339

Initiated by: MV

Date Initiated: 9/24/25

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	(No)	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	(N/A)	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	(N/A)	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	(Yes)	No	N/A	1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	(Yes)	No	Temperature: 2.2	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	(N/A)		
1.7 How were the samples delivered?	(Client)	Courier	UPS/FedEx	OSE Pickup Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	(Yes)	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	(Yes)	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	(Yes)	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	(Yes)	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	(Yes)	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	(No)	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	(No)		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	(No)		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	(Yes)	No		1 2 3 4
3.4 Have the samples been correctly preserved?	(Yes)	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	(Yes)	No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	(Yes)	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	(No)		1 2 3 4
3.8 Was method 5035A used?	Yes	No	(N/A)	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		(N/A)	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

Attachment 3
Groundwater Sampling Low-Flow Standard Guideline

FLOYD | SNIDER
strategy ▪ science ▪ engineering

Two Union Square
601 Union Street, Suite 600
Seattle, WA 98101
tel: 206.292.2078 fax: 206.682.7867

F|S STANDARD GUIDELINE

Low-Flow Groundwater Sample Collection

DATE/LAST UPDATE: November 2023

These procedures should be considered standard guidelines and are intended to provide useful guidance when in the field but are not intended to be step-by-step procedures, as some steps may not be applicable to all projects.

All field staff should be sufficiently trained in the standard guidelines for the sampling method they intend to use and should review and understand these procedures prior to going into the field. It is the responsibility of the field staff to review the standard guidelines with the field manager or project manager and identify any deviations from these guidelines prior to field work. When possible, the project-specific Sampling and Analysis Plan should contain any expected deviations and should be referenced in conjunction with these standard guidelines.

1.0 Scope and Purpose

This standard guideline provides details necessary for collecting representative groundwater samples from monitoring wells using low-flow methods. These guidelines are designed to meet or exceed guidelines set forth by the Washington State Department of Ecology (Ecology). Low-Flow sampling provides a method to minimize the volume of water that is purged and disposed from a monitoring well, and minimizes the impact that purging has on groundwater chemistry during sample collection.

2.0 Equipment and Supplies

Groundwater Sampling Equipment and Tools

- For wells with head less than 25 feet:
  - Peristaltic pump with fully charged internal battery or standalone battery and appropriate connectors
- For wells with head greater than 25 feet:
  - Bladder pump and controller, as well as an air cylinder, or air compressor (with extension cord if near an electrical outlet; with battery and appropriate connectors or generator if not near an outlet)

    OR

  - Low-flow submersible pump and controller (with extension cord if near an electrical outlet; with battery and appropriate connectors or generator if not near an outlet)
- Multi-parameter water quality meter
- Turbidity meter
- Water level meter
- Polyethylene tubing, Teflon tubing, or similar (assume polyethylene unless otherwise specified in SAP) and tubing weights (for wells deeper than approximately 10 feet)
- Silicone tubing
- Filters (if field filtering)
- Tools for opening wells and drums (1/2-inch, 9/16-inch, 5/8 and 15/16-inch sockets ratchet, screwdriver, hammer/rubber mallet, bung wrench; any other necessary tools if non-standard monuments have been used)
- Well keys
- Tube cutters, razor blade, or scissors
- 5-gallon buckets, lids, and clamp
- Decontamination supplies: Alconox (or similar), distilled or deionized water, spray bottles, and paper towels
- Bailer or hand pump to drain well box if full of stormwater
- Trash bags

Lab Equipment

- Sample jars/bottles
- Coolers
- Chain-of-Custody Forms
- Labels
- Ice
- Ziploc bags

Paperwork

- Field notebook with site maps
- Table of well construction details and/or well logs, if available
- Sampling forms (enclosed)
- Purge water plan

- Rite-in-the-Rain pens, paper, and permanent markers
- Site-Specific Health and Safety Plan (HASP) and F|S Accident Prevention Plan (APP)
- List of emergency contacts for the Site or facility
- Safety Data Sheets (SDS) binder
- Sampling and Analysis Plan (SAP) and/or Quality Assurance Project Plan (QAPP) (including tables of analytes and bottle types)

Safety Equipment

- PPE:
  - Waterproof boots (safety toed, depending on site)
  - Safety vest
  - Safety glasses
  - Rain gear
  - Nitrile gloves
  - Work gloves
- First Aid kit
- Emergency kit (fire extinguisher, road flares)
- Traffic barricades or cones

3.0 Standard Procedures

Low-flow groundwater sampling consists of purging groundwater within the well casing at a rate equal to or less than the flow rate of representative groundwater from the surrounding aquifer into the well screen. The flow rate will depend on the hydraulic conductivity of the aquifer and the drawdown, with the goal of minimizing drawdown within the monitoring well. Field parameters are monitored during purging and groundwater samples are collected after field parameters have stabilized. Deviations from these procedures should be approved by the Project Manager and fully documented.

3.1 OFFICE PREPARATION

First, meet with the PM to identify the key objectives of the groundwater sampling effort. This may include the order of wells to be sampled (e.g., if using non-dedicated equipment, wells may need to be sampled in order of least contaminated to most contaminated), whether any wells require redevelopment at least 24-hours prior to sampling, and/or key stabilization parameters (e.g., elevated turbidity may require purging beyond 30 minutes, even if the readings are within 10%).

Conduct a kick-off meeting with the sampling team to discuss site health and safety protocols, data quality objectives, and any site-specific special considerations or sampling procedures.

3.2 TAILGATE SAFETY MEETING

Conduct a tailgate safety meeting prior to beginning work at the site. Emergency evacuation procedures, rally points, and onsite communication protocols should be discussed at the first tailgate meeting and repeated if new personnel join the field team onsite.

The safety meeting should cover the hazards specific to groundwater sampling. Typical hazards include the following:

- Chemical hazards (refer to HASP for site chemical exposure hazards)
- Site hazards
  - Traffic hazards onsite (e.g., truck traffic, heavy machinery)
  - Biological hazards (e.g., spiders or wasps within well monuments)
- Physical hazards associated with lifting and carrying heavy equipment and repeated bending while sampling
- Cuts and abrasions associated with using blades and tools
- Electrical hazards (make sure all wires/cables are in good condition and connections to battery or outlet are secure)
- Heat stress and cold stress

Record the meeting attendees and topics discussed on the front page of the tailgate safety meeting form (included as an attachment to the HASP). All attendees should sign the form.

3.3 OTHER HEALTH AND SAFETY GUIDELINES

The following are additional health and safety guidelines that should be followed in the field. These guidelines are intended to supplement the guidelines and requirements identified in the HASP and are not intended to replace the HASP.

- Review and sign the HASP prior to going into the field.
- Conduct a tailgate safety meeting prior to beginning work at the site as discussed in Section 3.2
- When moving between monitoring wells or switching to different tasks (e.g., transitioning from sampling to cooler QC prior to lab pickup), assess any additional hazards that may be associated with the new location or task. Record additional hazards noted and corrective actions to address those hazards on the Daily Tailgate Safety Meeting and Debrief Form (included as an attachment to the HASP).
- Record near misses and incidents on the Near Miss and Incident Reporting Form (included as an attachment to the HASP) and conduct management/client notifications according to the protocols detailed in the HASP.

3.4 CALIBRATION OF WATER QUALITY METERS

All multi-parameter water quality meters to be used will be calibrated prior to each sampling event. Calibration procedures are outlined in each instrument's specific user manual.

3.5 MONITORING, MAINTENANCE, AND SECURITY

Prior to sampling, depth to water and total depth measurements will be collected and recorded for accessible monitoring wells onsite (or an appropriate subset for larger sites). Check for an existing measuring point (notch or visible mark on top of casing). If a measuring point is not observed, a measuring point should be established on the north side of the casing. The conditions of the well box and bolts will also be observed, and deficiencies will be recorded on the sampling forms or logbook (i.e., missing or stripped bolt). The following should also be recorded:

- Condition of the well box, lid, bolts, locks, and gripper cap, if deficiencies
- Condition of gasket if deficient and if water is present in the well box
- Note any obstructions or kinks in the well casing
- Note any equipment in the well casing, such as transducers, bailers, or tubing
- Condition of general area surrounding the well, such as subsidence, potholes, or if the well is submerged within a puddle.

Replace any missing or stripped bolts and redevelop wells if needed.

3.6 LOW-FLOW PURGING METHOD AND SAMPLING PROCEDURES

Groundwater samples will be collected using low-flow purging and sampling procedures consistent with Ecology guidelines and the U.S. Environmental Protection Agency (USEPA) standard operating procedures (USEPA 1996). The following describes the Low-Flow purging and sampling procedures for collecting groundwater samples using a peristaltic pump. If the water level is greater than approximately 20 to 25 feet below ground surface (bgs), Grundfos or Geotech submersible pumps or bladder pumps can be used since their pumping rates can be adjusted to low-flow levels. Submersible pumps are preferable to bladder pumps in situations where less than 5 feet of water column are present in the well casing.

- Place the peristaltic pump and water quality equipment near the wellhead. Slowly lower new poly tubing down into the well casing approximately to the middle of the well screen. When sampling wells with a bottom screen depth greater than approximately 10 feet, it is important to measure the length of tubing prior to placement as longer lengths of tubing are more likely to get caught or otherwise obstructed and feel like it has reached the well bottom; this issue can be mitigated by using decontaminated stainless steel tubing weights. If the depth of the well screen is not known, lower the appropriate length of tubing to the bottom of the well, making sure that the tubing has not been caught on the slotted well casing, and then raise the tubing 3 to 5 feet off the bottom of the casing (limit this distance to 2 feet for wells with total depth less than 10 feet). Document the estimated depth of the tubing

placement within the well. Connect the tubing to the peristaltic pump using new flex tubing and connect the discharge line to the flow-through cell of the water quality meter. The discharge line from the flow cell should be directed to a bucket to contain the purged water.

- If using a low-flow submersible pump, connect the pump head to dedicated or disposable tubing. If using a bladder pump, connect both the air intake and water discharge ports to decontaminated or disposable tubing, using the manufacturer's instructions to ensure a secure connection. Lower the pump with tubing into the well as described above and connect the water discharge tubing directly to the flow-through cell.
- Measure the depth to water to the nearest 0.01 foot with a decontaminated water level meter and record the information on a sampling form.
- Start pumping the well at a purge rate of 0.1 to 0.2 liters per minute and slowly increase the rate. Purge rate is adjusted using a speed control knob or arrows on peristaltic and low-flow submersible pumps. The purge rate for bladder pumps is controlled by the air compressor, which first pressurizes the pump chamber in order to compress the flexible bladder and force water through the discharge line, and then vents the chamber in order to allow the bladder to refill with water.
    - A good rule of thumb is to pressurize to 10 psi + 0.5 psi/foot of tubing depth and begin with 4 discharge/refill cycles per minute; using greater air pressure and accelerating the pump cycles will increase the purge rate.
- Check the water level. If the water level is dropping, lower the purge rate. Maintain a steady flow with no or minimal drawdown (less than 0.33 feet according to USEPA 2002). Maintaining a drawdown of less than 0.33 feet may not be feasible depending on hydrogeological conditions. If possible, measure the discharge rate of the pump with a graduated cylinder or use a stopwatch when filling sampling jars (500 milliliters [mL] polyethylene or glass ambers) to estimate the rate. When purging water through a flow cell, the maximum flow rate for accurate water quality readings is about 0.5 liters per minute (L/minute).
- The discharge tubing should be connected to the flow cell immediately upon initial water discharge, unless the discharge water is visibly turbid or flocculant is observed. Monitor and record water quality parameters every three to five minutes after one tubing volume (including the volume of water in the flow cell) has been purged.
    - One foot of ¼-inch interior diameter tubing holds about 10 mL of water, and flow-through cells typically hold less than 200 mL of water; one volume should be purged after about 5 minutes at a flow rate of 0.1 L/minute.
- Water-quality indicator parameters that will be monitored and recorded during purging include:
    - pH
    - Specific conductivity

  - Dissolved oxygen
  - Temperature
  - Turbidity
  - Oxidation reduction potential (ORP)

- Continue purging until temperature, pH, turbidity, and specific conductivity are approximately stable (when measurements are within 10 percent) for three consecutive readings, or 30 minutes have elapsed. Because these field parameters (especially dissolved oxygen and ORP) may not reach the stabilization criteria, collection of the groundwater sample will be based on the professional judgment of field personnel at the time of sampling. A minimum of 5 water quality readings should be collected prior to sampling.
- The water sample can be collected once the criteria above have been met.
- If drawdown in the well cannot be maintained at 0.33 feet or less, reduce the flow or turn off the pump for 15 minutes and allow for recovery. If the water quality parameters have stabilized, and if at least two tubing volumes and the flow cell volume have been purged, then sample collection can proceed when the water level has recovered, and the pump is turned back on. This should be noted on the sampling form.
- To collect the water sample, maintain the same pumping rate. After the well has been purged and the sample bottles have been labeled, the groundwater sample will be collected by directly filling the laboratory-provided bottles from the pump discharge line prior to passing through the flow cell. All sample containers should be filled with minimum disturbance by allowing the water to flow down the inside of the bottle or vial. When collecting a volatile organic compound (VOC) sample, fill to the top to form a meniscus over the mouth of the vial prior to placing the cap to eliminate air bubbles. Be careful not to overflow preserved bottles/pre-cleaned Volatile Organic Analyte (VOA) vials.
- If sampling for filtered metals, collect these samples last and fit an in-line filter at the end of the discharge line. Take note of the flow direction arrow on the filter prior to fitting, invert filter to eliminate air bubbles, and allow minimum of 0.5 to 1 liter of groundwater to pass through the filter prior to collecting the sample.
- Sample labels will clearly identify the project name, sampler's initials, sample location and unique sample ID, analysis to be performed, date, and time. After collection, place samples a cooler maintained at a temperature of approximately 4 to 6 degrees Celsius (°C) using ice (if required). Complete the chain-of-Custody forms. Upon transfer of the samples to the laboratory, the Chain-of-Custody Form will be signed by the persons transferring custody of the sample containers to document change in possession.
- When sample collection is complete at a designated location, remove and properly dispose of the non-dedicated tubing. In most cases, this waste is considered solid waste and can be disposed of as refuse. Close and lock the well.

4.0 Decontamination

All reusable equipment that comes into contact with groundwater should be decontaminated using the processes described in this section prior to moving to the next sampling location.

Water Level Meter: The water level indicator and tape will be decontaminated between sampling locations and at the end the day by spraying the entire length of tape that came in contact with groundwater with an Alconox (or similar)/clean water solution followed by a thorough rinse with distilled or deionized water.

Water Quality Sensors and Flow-Through Cell: Distilled water or deionized water will be used to rinse the water quality sensors and flow-through cell. No other decontamination procedures are recommended since they are sensitive equipment. After the sampling event, the water quality meters will be cleaned and maintained according to the specific manual.

Submersible Pump (if applicable): Decontaminating the pump requires running the pump in three progressively cleaner grades of water.

1. Fill a bucket with approximately 4 gallons of an Alconox (or similar)/clean water solution to sufficiently cover the pump. Place the pump and the length of the power cord (if applicable) that was in contact with water into the bucket and run the pump for approximately two minutes or until the volume of water in the bucket has been exhausted.
2. Fill a second bucket containing approximately 4 gallons of clean water to sufficiently cover the pump. Place the pump and cord into this bucket and run the pump for approximately two minutes or until the volume of water in the bucket has been exhausted.
3. Fill a third bucket with approximately 4 gallons of distilled or deionized water to sufficiently cover the pump. Place the pump and cord into this bucket and run the pump for approximately two minutes or until the volume of water in the bucket has been exhausted.

The soap/water solution may be reused; however, rinse water should be collected for disposal as described in Section 5.0 below. When done for the day, dry the exterior of the pump and cord with clean towels to the extent practical prior to storage.

Bladder Pump: Clean the inside and outside of the pump body with an Alconox (or similar)/clean water solution, followed by a thorough rinse with distilled or deionized water. The outside of the air supply line that came in contact with groundwater may also be cleaned with Alconox (or similar) solution and re-used; bladders and water discharge lines must be replaced after each sample is collected.

5.0 Investigation-Derived Waste (IDW)

Unless otherwise specified in the project work plan, water generated during groundwater sampling activities will be contained, transported, disposed of in accordance with applicable laws, and stored in a designated area until transported off-site for disposal. This includes purge water and decontamination waste water.

The approach to handling and disposal of these materials for a typical cleanup site is as follows.

For IDW that is containerized, such as purge water, 55-gallon drums (or other smaller sized drums) approved by the Washington State Department of Transportation will be used for temporary storage pending profiling and disposal. Each container holding IDW will be sealed and labeled as to its contents (e.g., "purge water"), the dates on which the wastes were placed in the container, the owner's name and contact information for the field person who generated the waste, and the site name.

IDW containerized within drums will be characterized relative to applicable waste criteria using data from the sampling locations whenever possible. Material that is designated for off-site disposal will be transported to an off-site facility permitted to accept the waste. Manifests will be used, as appropriate for disposal. Refer to the FS Special Condition Standard Guideline for Investigation Derived Waste for additional information regarding proper profiling and disposal of wastewater generated by groundwater sampling.

Disposable sampling materials and incidental trash such as tubing, paper towels and gloves/other disposable used in sample processing will be placed in heavy-duty garbage bags or other appropriate containers and disposed of as trash in the municipal collection system unless otherwise specified in the SAP.

6.0 Field Documentation

Groundwater sampling activities will be documented in field sampling forms and/or field notebooks, and Chain-of-Custody Forms. Information recorded will, at a minimum, include personnel present (including subcontractors or client representatives), purpose of field event, weather conditions, sample collection date and times, sample analytes, depths to water, water quality parameters, well box/lid conditions, amount of purged water generated, and any deviations from the SAP. Photographs of damaged well casings or well boxes should be taken.

At the end of the day, complete and review the second page of the tailgate safety meeting form detailing additional hazards, corrective actions, near-misses or incidents. Any incidents that result in equipment damage or field staff injuries should be reported immediately to the PM.

7.0 Demobilization

Upon returning to the office, ensure that all equipment is property cleaned and put away in the field room. Equipment with rechargeable batteries should be plugged in as appropriate. It is

preferable to dispose of trash on-site, but any trash left in the field vehicle should be disposed as regular trash at Two Union Square.

If rented equipment or sample coolers will be placed at the front desk for pickup, clearly label each item with the company picking it up, anticipated pickup time frame, and your contact information so front desk staff can contact you if there are any questions. Notify front desk staff if any items require a signature at pickup.

Within one week of returning from the field, the field lead for the event should review field notes, sampling forms and tailgate safety meeting forms with the PM. Following PM review and approval, field notes will be scanned and saved to the project folder. Hard copies should be filed. The PM will provide copies of near miss and incident reports to the Safety Program Manager.

8.0 References

U.S. Environmental Protection Agency (USEPA). 1996. Low-Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells, Revision 2. Region 1. July 30, 1996.

_____. 2002. Groundwater Sampling Guidelines for Superfund and CAR Project Managers. Office of Solid Waste and Emergency Response. EPA 542.S-02-001. May 2002.

Enclosures: Groundwater or Surface Water Sample Collection Form

Record of Revisions:

Revisions	Date
Added health and safety information, reviewed EPA guidance, and added revisions table.	12/9/2022
Added turbidity meter to equipment list and appended updated field form to PDF	11/29/2023

GROUNDWATER OR SURFACE WATER SAMPLE COLLECTION FORM

Project:_____ Date of Collection: _____

Task:_____ Field Personnel: _____

Purge Data

Well ID: _____ Secure: ☐ Yes ☐ No Ecology Tag #: _____ Casing Type/Diameter/Screened Interval _____

Replacement Required: ☐ Monument ☐ Lid ☐ Lock ☐ Bolts: Missing (#) _____ Stripped (#) _____ Other Damage: _____

Depth Sounder decontaminated Prior to Placement in Well: ☐ Yes ☐ No One Casing Volume (gal): _____

Depth of water (from TOC):_____Time: _____

Total Depth (from log or field measurement): _____

After 5 minutes of purging (from top of casing): _____

Begin purge (time): _____End purge (time): _____

Volume purged:_____ Purge water disposal method_____

Volume of Schedule 40 PVC Pipe

Diameter	O.D.	I.D.	Volume (Gal/Linear Ft.)	Weight of Water (Lbs/Lineal Ft.)
1 ¼"	1.660"	1.380"	0.08	0.64
2"	2.375"	2.067"	0.17	1.45
3"	3.500"	3.068"	0.38	3.2
4"	4.500"	4.026"	0.66	5.51
6"	6.625"	6.065"	1.5	12.5

Time	Depth to Water (ft)	Vol. Purged (_____)	pH (s.u.)	DO (mg/L)	Specific Conductivity (µs/cm)	Turbidity (NTU)	Temp (°C)	ORP (mV)	Comments

Sampling Data

Sample No: _____ Location and Depth: _____

Date Collected (mo/dy/yr):_____ Time Collected: _____ Weather:_____

Type: ☐ Ground Water ☐ Surface Water Other: _____ Sample: ☐ Filtered ☐ Unfiltered Filter Type:_____

Sample Collected with: ☐ Bailer ☐ Pump Other: _____ Type: ☐ Peristaltic ☐ Bladder ☐ Submersible Other: _____

Water Quality Instrument Data Collected with: Type: ☐ YSI ProDSS ☐ Turbidity Meter ☐ Other: _____

Sample Decon Procedure: Sample collected with: ☐ decontaminated <u>all</u> tubing; ☐ disposable tubing ☐ dedicated silicon and poly tubing; ☐ dedicated tubing replaced

Sample Description (Color, Turbidity, Odor, Other): _____

Sample Analyses

Analyte	Analysis Method	Sample Container	Quantity	Preservative	Notes

QC samples

Duplicate Sample No: _____ Duplicate Time: _____ MS/MSD: ☐ Yes ☐ No

Signature: _____ **Date:** _____

Attachment 4
Data Validation Summaries

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Two Union Square
601 Union Street, Suite 600
Seattle, WA 98101
tel: 206.292.2078 fax: 206.682.7867

Data Validation Summary

Prepared by:	Henry Bates
Date:	December 1, 2025
Project ID:	COBothell-BSC
Sample Event(s):	May 2025 Groundwater
Sample Delivery Group(s):	2505-046, 2505-067, and 2505-084
Sample Media:	Groundwater

A Compliance Screening (USEPA Stage 2A) data quality review was performed on volatile organic compounds (VOCs), dissolved metals, ammonia, orthophosphate, sulfate, nitrate, dissolved gases, and total organic carbon (TOC) data resulting from laboratory analysis. The data were reviewed using guidance and quality control (QC) criteria documented in the Quality Assurance Project Plan (Floyd|Snider 2025), Test Methods for Evaluating Solid Waste: Physical/Chemical Methods (USEPA 1986), National Functional Guidelines for Organic Superfund Methods Data Review (USEPA 2020a), and the National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA 2020b).

A total of 37 groundwater samples, 2 field duplicates, and 3 trip blanks were submitted to Onsite Environmental Inc. (OnSite) in Redmond, Washington, for chemical analysis by USEPA 8260D, USEPA 6010D, SM 4500-NH3-D, USEPA 365.1, ASTM D516-16, USEPA 353.2, RSK 175, and SM 5310B. OnSite reported results under three sample delivery groups: 2505-046, 2505-067, and 2505-084.

DATA QUALITY REVIEW

Field and laboratory QC parameters for all samples met project criteria.

DATA QUALITY SUMMARY

Based on the data quality review, data are determined to be of acceptable quality for use as reported.

REFERENCES

Floyd|Snider. 2025. *City of Bothell Service Center Quality Assurance Project Plan.* Prepared for City of Bothell. February.

U.S. Environmental Protection Agency (USEPA). 1986. *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods.* U.S. Prepared by the Office of Solid Waste and Emergency Response. EPA-530/SW-846.

_____. 2020a. *National Functional Guidelines for Organic Superfund Methods Data Review.* Prepared by the Office of Superfund Remediation and Technology Innovation. EPA-540-R-20-005/OLEM 9240.0-51. November.

_____. 2020b. *National Functional Guidelines for Inorganic Superfund Methods Data Review.* Prepared by the Office of Superfund Remediation and Technology Innovation. EPA-542-R-20-006/OLEM 9240.1-66. November.

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Two Union Square
601 Union Street, Suite 600
Seattle, WA 98101
tel: 206.292.2078 fax: 206.682.7867

Data Validation Summary

Prepared by:	Henry Bates
Date:	December 1, 2025
Project ID:	COBothell-BSC
Sample Event(s):	September 2025 Groundwater
Sample Delivery Group(s):	2509-286, 2509-323, 2509-339
Sample Media:	Groundwater

A Compliance Screening (USEPA Stage 2A) data quality review was performed on volatile organic compounds (VOCs), dissolved metals, ammonia, orthophosphate, sulfate, nitrate, dissolved gases, and total organic carbon (TOC) data resulting from laboratory analysis. The data were reviewed using guidance and quality control (QC) criteria documented in the Quality Assurance Project Plan (Floyd|Snider 2025), Test Methods for Evaluating Solid Waste: Physical/Chemical Methods (USEPA 1986), National Functional Guidelines for Organic Superfund Methods Data Review (USEPA 2020a), and the National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA 2020b).

A total of 33 groundwater samples, 2 field duplicates, and 3 trip blanks were submitted to Onsite Environmental Inc. (OnSite) in Redmond, Washington, for chemical analysis by USEPA 8260D, USEPA 200.7, USEPA 200.8, SM 4500-NH3-D, USEPA 365.1, ASTM D516-16, USEPA 353.2, RSK 175, and SM 5310B. OnSite reported results under three sample delivery groups: 2509-286, 2509-323, and 2509-339.

DATA QUALITY REVIEW

Field and laboratory QC parameters for all samples met project criteria.

DATA QUALITY SUMMARY

All data are determined to be of acceptable quality for use as reported.

REFERENCES

Floyd|Snider. 2025. *City of Bothell Service Center Quality Assurance Project Plan.* Prepared for City of Bothell. February.

U.S. Environmental Protection Agency (USEPA). 1986. *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods.* U.S. Prepared by the Office of Solid Waste and Emergency Response. EPA-530/SW-846.

_____. 2020a. *National Functional Guidelines for Organic Superfund Methods Data Review.* Prepared by the Office of Superfund Remediation and Technology Innovation. EPA-540-R-20-005/OLEM 9240.0-51. November.

_____. 2020b. *National Functional Guidelines for Inorganic Superfund Methods Data Review.* Prepared by the Office of Superfund Remediation and Technology Innovation. EPA-542-R-20-006/OLEM 9240.1-66. November.

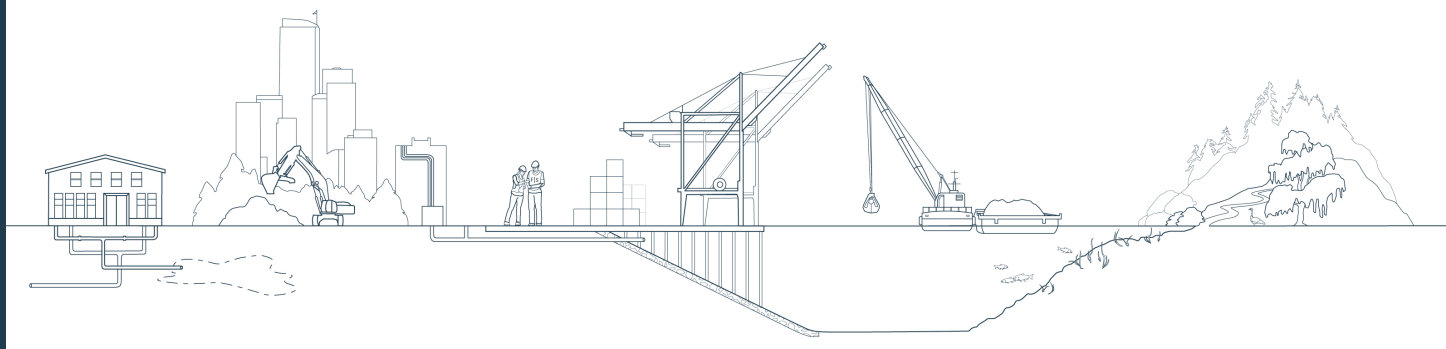
Attachment 5
Quality Assurance Project Plan

Quality Assurance Project Plan

City of Bothell Service Center

Prepared for
City of Bothell

February 2025



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LIMITATIONS

This report has been prepared for the exclusive use of City of Bothell, their authorized agents, and regulatory agencies. It has been prepared following the described methods and information available at the time of the work. No other party should use this report for any purpose other than that originally intended, unless Floyd|Snider agrees in advance to such reliance in writing. The information contained herein should not be utilized for any purpose or project except the one originally intended. Under no circumstances shall this document be altered, updated, or revised without written authorization of Floyd|Snider.

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Appendix A Standard Sampling Procedures

List of Abbreviations

Abbreviation	Definition
CAP	Cleanup Action Plan
CD	Consent Decree
City	City of Bothell
COC	Contaminant of concern
CUL	Cleanup level
DQI	Data quality indicator
EDD	Electronic data deliverable
HVOC	Halogenated volatile organic compound
LCS	Laboratory control sample
MDL	Method detection limit
MS	Matrix spike
MSD	Matrix spike duplicate
PCE	Tetrachloroethylene
PM	Project manager
QA	Quality assurance
QAPP	Quality Assurance Project Plan
QC	Quality control
RL	Reporting limit
Site	Bothell Service Center project site
SOP	Standard operating procedure
TM	Task manager
USEPA	U.S. Environmental Protection Agency

1.0 Introduction

This Quality Assurance Project Plan (QAPP) is presented as a stand-alone document for the City of Bothell (City) Service Center project site (Site) located in downtown Bothell. It describes the quality assurance (QA) objectives, methods, and procedures for sample analysis to support the bioremediation system operation and optimization per the Consent Decree (CD) with Washington State Department of Ecology (Ecology; No. 18-2-02852-3 SEA). Sampling will include the collection and chemical analysis of groundwater to delineate exceedances of cleanup levels (CULs) presented in the *Final Cleanup Action Plan* (Ecology 2019).

This QAPP presents more detailed information regarding data management responsibilities, laboratory analysis methods and procedures, and reporting requirements. This document was prepared in accordance with the U.S. Environmental Protection Agency's (USEPA's) guidance on preparing QAPPs (USEPA 2002a, 2006).

1.1 DOCUMENT ORGANIZATION

This QAPP provides detailed laboratory methods and protocols for all anticipated types of data collection. The QAPP addenda may be prepared if additional data types not detailed in this plan are determined to be needed after completion of part or all of groundwater sampling.

This QAPP is organized into the following sections:

- Section 2.0—Project Organization and Responsibilities
- Section 3.0—Data Generation and Acquisition
- Section 4.0—Assessment and Oversight
- Section 5.0—Data Validation and Usability
- Section 6.0—References
- Section 7.0—Approvals

2.0 Project Organization and Responsibilities

2.1 PROJECT MANAGEMENT

The following sections describe the responsibilities of project team members for fulfillment of the QAPP. Contact information for the key QA project team members is provided in Table 2.1. The contact information for key project team members will be provided to the City prior to implementation of the CD and Cleanup Action Plan (CAP).

2.1.1 Project Manager

The Floyd|Snider project manager (PM) will be involved in all aspects of this project, including discussion, review, and interpretation of this QAPP, and the results of the investigation. The Floyd|Snider PM will also be responsible for the overall implementation of this QAPP.

2.1.2 Project Coordinator

The Floyd|Snider project coordinator will be responsible for providing oversight for planning and coordination, work plans, all project deliverables, and performance of the administrative tasks needed to provide timely and successful completion of the project. They will also be responsible for coordinating with the PM on schedule, deliverables, and other administrative details.

2.1.3 Task Manager

The Floyd|Snider task manager (TM) will be responsible for communicating with the PM on the progress of project tasks, conducting detailed planning and coordination, and monitoring and communicating to the PM any deviations from the QAPP. Significant deviations from the QAPP will be further reported to the City. The TM will facilitate the transfer of analytical data to the principal data users.

2.1.4 Field Coordinator

The Floyd|Snider field coordinator will be responsible for implementation of the field data collection program, including sample handling and custody documentation. The field coordinator will work closely with the TM and PM to ensure that the required sample collection and laboratory analyses are completed. The field coordinator, or their trained and qualified designee, is also responsible for oversight of daily calibration of field equipment in accordance with this QAPP and inspection of sample containers as specified in Section 3.7.

2.1.5 Quality Assurance/Quality Control

The QA and quality control (QC) coordinator or their designee will serve as the laboratory QA/QC coordinator. The QA/QC coordinator will oversee coordination of the field sampling and laboratory program and supervise data validation and project QA coordination, including coordination with the analytical laboratories and the City. The laboratory QA/QC coordinator will

be a Floyd|Snider staff member specializing in QA/QC who is independent from the analytical laboratories and field staff responsible for generating the data.

Analytical laboratories will be responsible for chemical analyses and will ensure that submitted samples are handled and analyzed in accordance with the analytical testing procedures and QA/QC requirements, as well as the any other requirements specified in this QAPP. The laboratories will provide certified pre-cleaned sample containers and preservatives, as appropriate, and prepare a data report containing analytical and QA/QC results. The laboratory PM will oversee laboratory operations, including receipt of samples, chemical analyses, and laboratory report preparation. They will prepare and review laboratory reports and case narratives describing any discrepancies that occurred during chemical analyses. They will also notify the laboratory QA/QC coordinator of any problems as soon as they are identified.

Data validation of chemical data will be conducted in-house by Floyd|Snider for all analyses.

2.2 PROBLEM DEFINITION/BACKGROUND

This QAPP describes the sample collection that will be performed as part of the groundwater monitoring and bioremediation system optimization at the Site. The site-wide semiannual groundwater monitoring and system sampling will be conducted to continue understanding of plume conditions and system operation. Additional groundwater sampling at select wells will also be conducted to monitor for specific bioremediation system operation optimization progress.

2.3 PROJECT TASK DESCRIPTION

Sampling activities described in this QAPP will be initiated after City approval.

2.4 SPECIAL TRAINING/CERTIFICATIONS

The Floyd|Snider field coordinator and all field personnel will be 40-hour HAZWOPER certified, consistent with OSHA 29 CRF 1910.120, and be trained in the groundwater sample collection methods described in this QAPP. The field coordinator will be responsible for ensuring that field staff and contractors have the necessary training and that field staff are up to date on the annual 8-hour HAZWOPER refresher course.

All analytical laboratories will have current environmental laboratory accreditation from Ecology for the analytical methods to be used.

2.5 DOCUMENTATION AND RECORDS

This QAPP will be approved by the Floyd|Snider PM, the City PM, and laboratory contractor PMs (refer to Section 7.0 for approvals). The document will be maintained and updated by the Floyd|Snider PM, who will be responsible for distribution of the approved document and any updated versions to key project contacts and team members (key project contacts are provided in Table 2.1). The City PM may distribute this QAPP to project stakeholders at their discretion.

Floyd|Snider will store all project records in a secure manner. Each project team member is responsible for filing all project information and records according to internal Floyd|Snider requirements. All electronic data will be maintained in a database in a designated directory at Floyd|Snider.

2.5.1 Field Records

Documents and records generated in the field should be considered controlled documents that become part of the project file. Floyd|Snider field staff will keep a daily record of significant events, observations, and measurements on forms specific to the field activity. All field documents will be maintained by the field coordinator. All sampling forms will contain information on the sample collected and will include at a minimum the following information:

- Project name
- Field staff on site
- Field observations
- Sample collection date and time
- Sampling method and/or description of field activities
- Instruments or equipment used
- Location identifier (ID) and sample ID
- Sample analysis
- Deviations from the CAP

2.5.2 Laboratory Records

The analytical laboratories will retain all analytical records. Additionally, Floyd|Snider will retain a copy of analytical data in the internal project files. Laboratory data packages will include those items necessary to complete data validation. Elements to be reported in the laboratory data packages are listed in Section 5.1.

All instrument data will be fully restorable at the laboratory from electronic backup. The laboratory will be required to maintain records relevant to project sample analyses for a minimum of 7 years. The PM is responsible for determining and communicating specific requirements for record maintenance if they are different than the default. Data validation reports will be maintained within the Floyd|Snider internal project files with the laboratory data packages.

Each laboratory employs an internal QA manager who is responsible for ensuring that laboratory standard operating procedures (SOPs) are followed, and laboratory staff perform routine audits for SOP compliance; routine audits are required for state accreditation. The Floyd|Snider PM or client PM may request to review records of SOP compliance.

The analytical laboratories will submit data electronically, in the Floyd|Snider standard electronic data deliverable (EDD) format. Guidelines for EDDs will be communicated to the analytical laboratories by the QA/QC coordinator or database manager.

All electronic data submittals must be tab-delimited text files that include all results, method detection limits (MDLs; as applicable), and reporting limits (RLs) consistent with those provided in the laboratory report. If laboratory replicate analyses are conducted on a single submitted field sample, the laboratory sample identifier must distinguish each replicate analysis.

2.5.3 Data Management and Reduction

The Floyd|Snider database manager will oversee data management and reduction in coordination with the PM and TM or field coordinator. Once all required data are confirmed to be received and validated, the database manager will load all records to Floyd|Snider's electronic database accessed using Microsoft Access software. The database is maintained on the Floyd|Snider server and is backed up with a hard disc. The database manager will manage data exports and will confirm that data are assembled in the required deliverable format with appropriate qualifiers.

3.0 Data Generation and Acquisition

3.1 SAMPLING DESIGN

Data will be collected to monitor the extent of the groundwater plume and evaluate bioremediation system operation and optimization. Laboratory analysis performed in accordance with this QAPP will fulfill these objectives by providing analytical data required for the compliance monitoring of the groundwater as outlined in the CD for this site's contaminants of concern (COCs).

3.2 SAMPLING METHODS

This section details the collection and analysis of groundwater samples presented in the CD. Additional sampling design for other media, if determined to be necessary, would be addressed in a supplemental work plan document.

3.2.1 Sample Collection

The general field procedures for groundwater collection using low-flow methodology are described in the Standard Sampling Procedures provided in Appendix A. Sampling considerations specific to the cleanup action are described in the following sections. As outlined in the CAP, performance groundwater monitoring will be continued during the bioremediation system operation until groundwater concentrations of tetrachloroethylene (PCE) and its breakdown products are below their applicable CULs. Site groundwater wells will be sampled twice every year for the specified COCs to monitor contaminant breakdown and compare concentrations relative to CULs.

3.2.2 Sample Analysis

Groundwater samples will be analyzed for the targeted list of COCs presented in the CAP.

All samples will be analyzed for halogenated volatile organic compounds (HVOCs), specifically PCE, trichloroethylene (TCE), 1,1-dichloroethylene (DCE), cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride. Where PCE, TCE, cis-1,2-DCE, and vinyl chloride are the COCs at the Site and are subject to MTCA Method A CULs. All samples will be analyzed for ammonia, orthophosphate, sulfate, chloride, nitrate, total organic carbon, dissolved gases (methane, ethene, ethane), and dissolved metals (iron and manganese), and total metals (calcium, magnesium and sodium).

Field duplicate samples will be analyzed concurrently for all constituents analyzed in their respective parent samples. Trip blank samples will be analyzed for HVOCs, which are the most volatile of the COCs.

Investigation-derived waste will be treated through the system's carbon vessels and injected back into the aquifer.

3.3 ANALYTICAL METHODS

Laboratory analytical methods were selected to ensure that the samples can be compared to the MTCA Method A CULs and MTCA Method B CULs for non-cancer presented in the *Final Cleanup Action Plan* (Ecology 2019). The laboratory quantitation limits including practical quantitation limits or RLs and MDLs for the selected analytical methods are presented in Table 3.1.

3.4 DATA QUALITY OBJECTIVES AND CRITERA

Field and laboratory data quality objectives include obtaining data that are technically sound and properly documented, having been evaluated against established criteria for the principal data quality indicators (DQIs; i.e., precision, bias, accuracy, representativeness, completeness, comparability, and sensitivity). Evaluation of the principal DQIs is summarized in the following sections. Data QA/QC criteria (also known as measurement quality objectives) and frequencies are presented in Table 3.2 and Table 3.3, respectively.

3.4.1 Precision

Precision measures the reproducibility of measurements under a given set of conditions. Specifically, precision is a quantitative measure of the variability of a group of measurements compared to their average values. Precision is assessed by performing multiple analyses, such as laboratory duplicate or field duplicate samples, and is defined as the relative percent difference (RPD) between results. Precision will be evaluated for both laboratory and field duplicate samples and calculated as follows.

$$RPD = \frac{(C_1 - C_2) \times 100\%}{\frac{(C_1 + C_2)}{2}}$$

Where:

RPD = relative percent difference
C_1 = larger of the two observed values
C_2 = smaller of the two observed values

Laboratory duplicate sample precision criteria and frequency requirements are presented in Table 3.2 and Table 3.3, respectively. Field duplicate precision will be screened against an RPD of 75% for all samples; however, data will not be qualified based on this evaluation. For precision calculations (i.e., for calculating RPD) the reporting limit will be used when a non-detect result is included in the evaluation. Additionally, the result/s based on the final dilution will be used in the calculation (i.e., values flagged as estimated greater than a given concentration, which are superseded with subsequent sample dilutions, will not be used).

3.4.2 Accuracy and Bias

Accuracy is an expression of the degree to which a measured or computed value represents the true value. Bias is “the systematic or persistent distortion of a measurement process that causes error in one direction” (EPA 2002a). Analytical bias and accuracy may be assessed by analyzing

"spiked" samples with known concentrations, such as laboratory control samples, blank spikes, and standard reference materials. Additionally, matrix spike samples can be analyzed to provide accuracy or bias information in the actual sample matrix. Precision criteria and frequency requirements are presented in Table 3.2 and Table 3.3, respectively. Accuracy will be evaluated as percent recovery (%R) and will be calculated as follows.

$$\%R = 100\% \times \frac{(S-U)}{C_{sa}}$$

Where:

%R = percent recovery
S = measured concentration in the spiked aliquot
U = measured concentration in the unspiked aliquot
C_{sa} = actual concentration of spike added

For accuracy calculations (i.e., for calculating %R), non-detect results will be assigned a value of zero. Additionally, the results based on the final dilution will be used in the calculation (i.e., values flagged as estimated greater than a given concentration, which are superseded with subsequent sample dilutions, will not be used).

3.4.3 Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represent an environmental condition. This DQO is addressed by the design of the sampling plan. A list of analytes has been identified to provide a comprehensive assessment of known or potential contaminants. Sufficient volumes of samples will be collected at each sampling location to minimize bias or errors associated with sample particle size and heterogeneity.

Representativeness in laboratory data will be assessed by evaluating holding time compliance and the results of the method blanks field blanks and instrument blanks.

3.4.4 Completeness

Completeness is defined as the number of acceptable data points relative to the total number of data points and is also a measure of the amount of validated data reported versus the expected amount of data (the amount of data collected). Completeness will be assessed for each sample medium. The QA/QC objective for completeness for all components of this project is 90% (Table 3.2). Data that were qualified as estimated because the QA/QC criteria were not met will be considered valid for the purpose of assessing completeness. Data that have been qualified as estimated will be further reviewed for usability. Data that were qualified as rejected will not be considered valid for their intended use or for the purpose of assessing completeness. If a sample medium has an unacceptable completeness percentage (less than 90%), original samples will be reanalyzed if sufficient sample volume is available, archived samples will be analyzed if appropriate, or additional samples will be obtained (if feasible). The equation used to calculate completeness is as follows:

$$\text{Completeness} = \frac{\text{number of valid measurements}}{\text{total number of data points planned}} \times \mathbf{100}$$

3.4.5 Comparability

Comparability is a qualitative parameter expressing the confidence with which one dataset can be compared to another. To ensure that results are comparable, samples will be analyzed using USEPA methods, Standard Methods, ASTM methods, and/or other acceptable method protocols. Calibration and reference standards will be traceable to certified standards, and standard data reporting formats will be employed.

3.4.6 Sensitivity

Analytical sensitivity is the minimum concentration of an analyte above which a data user can be reasonably confident that the analyte was reliably detected and quantified. For this investigation, the MDL or estimated detection limit (EDL) will be used as the measure of sensitivity for each analyte.

3.5 QUALITY ASSURANCE/QUALITY CONTROL PROCEDURES

Guidance for QA/QC is derived from the protocols developed for USEPA's Test Methods for the Evaluation of Solid Waste: Physical/Chemical Methods (USEPA 1986), the USEPA National Functional Guidelines (EPA 2020a, 2020b, and 2020c), and cited methods.

The field coordinator or field personnel will assess and implement field QC procedures as required in this QAPP.

3.5.1 Field Quality Assurance/Quality Control Procedures

3.5.1.1 Sample Identification

Each sample will have a label affixed to the container, and the container will be labeled at the time of collection. The minimum information will be recorded on the label:

- Sample identifier
- Date and time of collection
- Preservative type (if applicable)
- Project name
- Sampler's name or initials

Samples will be identified using the following format: "Sample Location"-"Date." For example, a sample collected from monitoring well MW-01 on December 1, 2022, would be labeled "MW-01-120122."

At each laboratory, a unique sample identifier will be assigned to each sample. The laboratory will ensure that a sample tracking record follows each sample through all stages of laboratory processing. The sample tracking record must contain, at a minimum, the name/initials of

individuals responsible for performing the analyses, dates of sample extraction/preparation and analysis, and types of analyses being performed. The analytical laboratories will meet the sample handling requirements and follow the procedures described in the sections below.

3.5.1.2 Field Quality Control Sampling and Identification

Field QC is evaluated through the analysis of field duplicates and trip blanks. Field duplicates are used to assess proper homogenization in the field, reproducibility of the sample preparation and analysis, and heterogeneity of the matrix. Trip blank samples are used to evaluate potential cross contamination from volatile compounds from ambient conditions or from other samples during sample handling and transport. Field QC samples will be collected at a rate of 1 per 20 investigation samples. Field QA/QC criteria and frequency are presented in Table 3.2 and Table 3.3.

The labeling of field QC samples is described as follows:

- Field duplicates will be labeled with a fictitious sample location by adding 100 to the sample location. For example, a field duplicate collected from monitoring well MW-01 on December 1, 2022, would be named “MW-101-120122.”
- Trip blanks will be provided by the laboratory and kept in the same cooler as containers sampled for volatile organic compounds during the sampling event near a sample collection location. Trip blanks will be labeled using the following format: “Trip Blank”-“Date.” For example, a trip blank collected on December 1, 2022, would be named “Trip Blank-120122.”

3.5.1.3 Sample Custody Procedures and Requirements

Sample custody is a critical aspect of environmental investigations. Sample possession and handling must be traceable from the time of sample collection, through laboratory and data analyses, to delivery of the sample results to the recipient. Procedures to be followed for sample custody related to shipping are detailed in Section 3.5.1.4.

Samples are considered to be in custody if they are (1) in the custodian's possession or view; (2) in a secured place (under lock) with restricted access; or (3) in a container and secured with a custody seal such that the sample cannot be reached without breaking the seal. Chain-of-custody forms will accompany all samples, and each person who has custody of the samples will sign the chain-of-custody form and ensure that the samples are not left unattended unless properly secured. Information on chain-of-custody forms will include at a minimum the following:

- Sampling location, project name, and unique sample ID
- Sample collection date and time
- Any special notations on sample characteristics or problems
- Name of the person who initially collected the sample
- Date sample was sent to the laboratory
- Shipping company name and waybill number (if applicable)

The field coordinator or qualified designee will be responsible for all sample tracking and custody procedures. They will also be responsible for final sample inventory and will maintain sample custody documentation. The field coordinator or designee will complete chain-of-custody forms prior to transporting samples. Information on the sample labels will be checked against sample collection forms and chain-of-custody forms, and sample containers will be recounted prior to transporting samples. Copies of all chain-of-custody forms will be retained and included as appendices to the data reports.

The analytical laboratories will ensure that chain-of-custody forms are properly signed upon receipt of the samples and will note any questions or observations concerning sample integrity on the chain-of-custody forms. The analytical laboratories will contact the field coordinator and project QA/QC coordinator immediately if discrepancies are discovered between the chain-of-custody forms and the sample shipment upon receipt.

3.5.1.4 Sample Preservation and Shipping Requirements

Sample volumes will be placed in laboratory-provided certified pre-cleaned sample containers and preserved in accordance with the requirements presented in Table 3.4. The laboratory will maintain manufacturer documents certifying the cleanliness of containers and/or purity of preservatives provide. The field coordinator or a designee will also inspect containers for cleanliness, for signs of damage or tampering, and for presence of preservative if pre-preserved containers will be used. Individual containers with evidence of damage or tampering will be discarded.

Prior to shipping or transporting samples, containers will be securely packed inside a cooler with ice packs or wet ice and bubble wrap. The original signed chain-of-custody forms will be placed in a sealed plastic bag and taped to the inside lid of the cooler. If third-party shipping (e.g., shipping with FedEx rather than a laboratory courier), each cooler will be sealed with a custody seal.

3.5.2 Laboratory Sample Handling and Holding Times

Samples will be stored in accordance with the conditions specified in the methods or laboratory SOPs. Samples transferred to other laboratories will be packed in coolers on ice and delivered via courier service or shipped on ice in coolers at temperatures of <6 degrees Celsius, not frozen. The temperature inside each cooler will be checked by the laboratory upon receipt of the samples. The laboratory will specifically note any coolers that are not sufficiently cold upon receipt.

All samples will be handled to prevent contamination or sample loss. Any remaining sample material will be disposed of upon receipt of written notification by the Floyd|Snider PM. Holding times will vary by analysis and are summarized in Table 3.4.

Archive samples will be stored frozen as allowed by the analytical method (refer to Table 3.4). Samples will be disposed of after hold times expire, following written authorization from the

Floyd|Snider PM. The Floyd|Snider PM may elect to hold archived samples past the specified hold time as needed to gather the additional project data.

3.5.3 Laboratory Quality Assurance/Quality Control

Laboratory results will be evaluated by reviewing analytical results of method blanks, laboratory control samples, certified reference materials, matrix spike/matrix spike duplicate samples, duplicate samples, internal standards, calibrations, and performance evaluation samples, as specified by the analytical methods.

All samples will be diluted and re-analyzed if target compounds are detected at levels that exceed their respective established calibration ranges. Any required cleanups will be conducted prior to the dilutions. Re-analyses will be performed if surrogate, internal standard, or spike recoveries are outside of the QA parameters. QC samples may be re-analyzed if results are not within control limits and it cannot be determined that the sample matrix is the cause.

3.5.3.1 Sample Delivery Groups

A sample delivery group (SDG) is defined by the laboratory and is generally considered 20 samples, or a group of samples from the same sampling period received at the laboratory on the same day. Although an SDG may span 2 weeks, all holding times specific to each analytical method will be met for each sample in the SDG.

3.5.3.2 Method Blanks

Method blanks are analyzed to assess possible laboratory contamination at all stages of sample preparation and analysis. A minimum of one method blank will be analyzed for every 20 samples.

3.5.3.3 Laboratory Control Samples

Laboratory control samples (LCSs) are prepared from a clean matrix source using the same process as project samples and are spiked with known amounts of the target compounds. The recoveries of the compounds are used as a measure of the accuracy of the test methods.

3.5.3.4 Matrix Spikes and Matrix Spike Duplicates

The analysis of matrix spike (MS) and matrix spike duplicate (MSD) samples provides information on the extraction efficiency of the method for the sample matrix and is used to evaluate the precision of the method. A minimum of one MS/MSD pair will be analyzed for every 20 samples, when sufficient sample volume is available. A laboratory duplicate sample may be analyzed in place of MSD samples, as allowed by the analytical method.

3.5.3.5 Laboratory Duplicates

Laboratory duplicate samples provide information on the precision of the analysis and are useful in assessing potential sample heterogeneity and matrix effects. Laboratory duplicates are

subsamples of the original sample that are prepared and analyzed as separate samples. A minimum of one laboratory duplicate sample will be analyzed for every 20 samples, when sufficient sample volume is available.

3.5.3.6 Surrogates

All samples, including laboratory QC samples (blanks, LCSs, MS/MSDs, and duplicate samples), analyzed for organic analytes will be spiked with appropriate surrogate compounds. Surrogate recoveries will be reported by the analytical laboratories; however, no sample results will be corrected for recovery using these values.

3.5.3.7 Internal Standards

Internal standards may be used for calibrating and quantifying organic compounds and metals. If internal standards are required by the method, all calibration, QC, and project samples will be spiked with the same concentration of the selected internal standards. Internal standard recoveries and retention times must be within method criteria, laboratory criteria, or both.

3.6 INSTRUMENT/EQUIPMENT TESTING, INSPECTION, AND MAINTENANCE

Inspection and maintenance of field and laboratory equipment are important to determine the quality of sampling and analysis results.

3.6.1 Field Equipment Maintenance and Calibration and Frequency

Field equipment for groundwater sampling that requires maintenance or calibration includes the following: pH probes, specific conductivity probes, turbidity meters, reduction–oxidation potential probes, and dissolved oxygen probes.

Field equipment will be maintained and calibrated in accordance with the procedures described in the operations manuals supplied by the manufacturer at the intervals recommended in the manual. The manufacturers' manuals will accompany each instrument for use during equipment calibration and to support troubleshooting. Equipment maintenance information will be documented in the instrument's maintenance log. Equipment calibration performed by field staff will be documented in a calibration log. The calibration log will include at minimum, the equipment type and model number, date and time, project name, the calibration results, and the initials of the calibrator. Any discrepancies or calibration failures will be noted in the calibration log and corrected prior to sampling. During the sampling event, any discrepancies or calibration failures will be noted in the field notes and corrected prior to continuing sampling. Maintenance and calibration records will be verified prior to each sampling event by the field coordinator.

The subcontractor responsible for navigation will confirm proper operation of the navigation equipment daily, and all equipment will be operated and maintained according to manufacturer specifications.

3.6.2 Laboratory Instruments Calibration and Frequency

Laboratory equipment will be maintained and calibrated according to the manufacturers' recommendations, the laboratory QA plan, SOPs, and standard methodologies. Calibrations will be performed on each analytical instrument prior to analysis. Calibrations are performed at a frequency determined by the analytical method and/or the laboratory SOP. The analysis must stop if the calibration does not meet the specified criteria. The analysis may resume after corrective actions have been taken to meet the method specifications. All project samples analyzed by an instrument found to be out of compliance must be reanalyzed. Laboratories will be responsible for their own preventative maintenance and calibration of laboratory equipment.

3.7 INSPECTION/ACCEPTANCE OF SUPPLIES AND CONSUMABLES

Inspection and acceptance of field supplies, including laboratory sampling containers, will be the responsibility of the field coordinator. Any chemical standards and solutions (such as nitric acid for metals sample preservation) used in this project will be provided by a reliable, commercial source and will be traceable. Any discrepancies will be documented by the field coordinator.

3.8 DATA MANAGEMENT AND REPORTING

Analytical chemistry results will be provided by the laboratory in PDF and EDD formats. Data packages will be returned within the time frame specified in the work order between Floyd|Snider and each laboratory, with a duration not to exceed 7 business days, unless delays are otherwise communicated to and approved by the Floyd|Snider PM. The data packages will be reviewed to ensure that the correct analyses were performed for each sample submitted and that all analyses requested on the chain-of-custody forms were performed. If discrepancies are noted, the QA/QC coordinator will be notified and will promptly follow up with the laboratory to resolve any issues. After completion of data validation, the digital files will be used to generate the appropriate report tables.

Laboratory data, which are electronically provided and loaded into Floyd|Snider's electronic database, will undergo a check against the laboratory data deliverable. Data will be validated or reviewed manually, and qualifiers, if assigned, will be entered manually. All manually entered data will be verified by a secondary review performed by Floyd|Snider staff. As a final review, after entry into the database, the EDD data will be compared to the field information (e.g., station/location identifiers, sample identifiers, requested analyses) previously entered into the database to confirm that all requested analytical data have been received.

4.0 Oversight

The project field activities will be overseen by the Floyd|Snider PM and laboratory activities will be overseen by the laboratory PM. Once data are received from the laboratory, a number of QC procedures will be followed to evaluate data quality and attainment of the data QA/QC objectives and criteria. Specific procedures will be followed to assess the principal DQIs (precision, bias, accuracy, representativeness, completeness, comparability, and sensitivity).

4.1 FIELD OVERSIGHT AND CORRECTIVE ACTIONS

The field coordinator or designated field lead will be responsible for field oversight and identifying issues that may result in noncompliance with this QAPP that could adversely affect data quality. The FC is responsible for performing corrective actions. The field coordinator and the QA/QC coordinator will be responsible for completing and for verifying and documenting completion of any corrective actions.

Field performance inspections may be conducted at the discretion of the Floyd|Snider PM to determine the effectiveness of QA/QC procedures and compliance with the QAPP. Field performance inspections should be conducted by the field coordinator, health and safety officer, or the Floyd|Snider PM. During a field performance inspection, the inspector will observe and review field procedures and health and safety procedures, including but not limited to documentation of sample collection, packaging procedures, sample shipment to the laboratories, and proper use of personal protection equipment per the HASP.

If issues are identified that may adversely affect data quality, corrective actions will be identified and implemented as soon as possible, and potential impacts to data quality will be evaluated. The inspector or a key member of the project team may temporarily stop work until deficiencies adversely affecting data quality are corrected. The field coordinator and the QA/QC coordinator will be responsible for verifying and documenting completion of any corrective actions.

4.2 LABORATORY OVERSIGHT AND CORRECTIVE ACTIONS

Laboratory audits and performance inspections consist of on-site reviews of QA systems and equipment. Laboratory audits will not be conducted as part of this study; however, the laboratory will provide reports from laboratory audits performed as part of general operations to the QA/QC coordinator upon request. The laboratory will provide written details of all method modifications planned prior to project commencement.

The laboratory is required to comply with its SOPs. The laboratory PM will be responsible for ensuring that appropriate corrective actions are initiated as required for compliance with this QAPP. All laboratory personnel will be responsible for reporting problems that may compromise the quality of the data. If QC results exceed the laboratory control limits, the analyst will identify and correct the anomaly before continuing with the sample analyses, if possible. If the issue cannot be overcome with standard corrective action (e.g., repreparation and reanalysis), the

causes of the exceedance and corrective actions will be described in the data package narrative. If the exceedance is gross or widespread, the Floyd|Snider PM and project QA/QC coordinator will be notified immediately, and the appropriate action will be decided.

5.0 Data Validation and Usability

5.1 DATA REVIEW

Floyd|Snider will review the laboratory reports for internal consistency, transmittal errors, laboratory protocols, and adherence to the objectives specified in this QAPP. A Stage 2A Data Quality Review will be performed as described in this section for all data. The results of the Data Quality Review will be summarized in a Data Validation Memorandum.

A Stage 2A Data Quality Review (Summary Validation) includes the following:

- Evaluation of package completeness
- Verification that sample numbers and analyses match those requested on the chain-of-custody form
- Review of method-specified preservation and sample holding times
- Verification that the required detection limits and RLs have been achieved
- Verification that the field and laboratory duplicates, MS/MSDs, and LCSs were analyzed at the proper frequency
- Verification of analytical precision and accuracy via replicate analysis and analyte recoveries
- Verification that the surrogate compound analyses have been performed and meet QC criteria
- Verification that the laboratory method blanks are free of contaminants

5.2 VALIDATION METHODS AND RECONCILIATION WITH USER REQUIREMENTS

Data validation programs have been established in accordance with USEPA guidance (USEPA 2002a). Data validation will be based on the QA/QC criteria as recommended in the methods identified in this QAPP and in the USEPA's National Functional Guidelines (USEPA 2020a, 2020b, 2020c) and environmental data verification and validation guidance (USEPA 2002b).

Data usability and any deviations that may have affected the quality of the data, as well as the basis of application of qualifiers, will be included in the final reporting of the data. Any required corrective actions based on the evaluation of the analytical data will be determined by the laboratory PMs, Floyd Snider PM, and data validators in consultation.

6.0 References

U.S. Environmental Protection Agency (USEPA). 1986. *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. Publication No. EPA-530/SW-846*. Office of Solid Waste and Emergency Response.

_____. 2002a. *Guidance for Quality Assurance Project Plans, EPA QA/G-5*. *Publication No.* EPA/240/R-02/009. Office of Environmental Information. Washington, DC. December.

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_____. 2006. *EPA Requirements for Quality Assurance Project Plans, EPA QA/R-5*. Office of Environmental Information. Washington, DC. March 2001, reissued May 2006.

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_____. 2020b. *National Functional Guidelines for Inorganic Superfund Methods Data Review.* Prepared by the Office of Superfund Remediation and Technology Innovation. EPA-542-R-20-006/OLEM 9240.1-66. November.

_____. 2020c. *National Functional Guidelines for Organic Superfund Methods Data Review.* Prepared by the Office of Superfund Remediation and Technology Innovation. EPA-540-R-20-005/OLEM 9240.0-51. November.

Washington State Department of Ecology. 2019. *Final Cleanup Action Plan*. Bothell Service Center Simon & Son, 18107 Bothell Way NE, Bothell, Washington. Revised 19 July.

7.0 Approvals

By signing below, I acknowledge that I have reviewed the Quality Assurance Project Plan and agree to follow the methods and quality assurance procedures contained therein.

_____ **Date_____**
Allison Geiselbrecht, Project Manager, Floyd|Snider

_____ **Date_____**
Chell Black, QA Manager, Floyd|Snider

_____ **Date_____**
Richard Francis, Project Manager, USEPA

_____ **Date_____**
Christine Ransom, Project Manager, EcoChem, Inc.

_____ **Date_____**
Darrell Auvil, Project Manager, Apex Laboratories

_____ **Date_____**
Shelly Fishel, Project Manager, Analytical Resources Inc.

_____ **Date_____**
Lori Dufour, Project Manager, Bureau Veritas

Quality Assurance Project Plan

City of Bothell Service Center

Tables

Table 2.1
Key Project Quality Assurance Contacts

Name	Role	Phone Number
Gabe Cisneros	Project Manager	206-805-2170 x 2170
Danielle Gallaher	Field Lead	206-613-2064 x 2064
Gillian Sweeney	H&S Lead	206-613-2065 x 2065
Henry Bates	Data Services	206-805-2181 x 2181

Table 3.1
Quality Assurance Project Plan Analyte List for Groundwater

Analyte	Method	Units	Cleanup Standards		Laboratory Reporting Limit
			CUL	REL	
Groundwater					
Chlorinated Volatile Organic Compounds					
Tetrachloroethene	USEPA 8260D	µg/L	5.0	120	0.20
Trichloroethene			5.0	12	0.20
cis -1,2-Dichloroethene			16.0	--	0.20
trans -1,2-dichloroethene			--	--	0.20
Vinyl Chloride	USEPA 8260D/SIM		0.20	1.5	0.020
MNA Parameters					
Nitrate	USEPA Method 353.2	mg/L	--	--	0.050
Sulfate	ASTM D516-11	mg/L	--	--	5.0
Ammonia	SM 4500-NH3	mg/L	--	--	0.053
Ortho-phosphate	USEPA 365.1	mg/L	--	--	5.0
Total Organic Carbon	SM 5310B	mg/L	--	--	1.0
Dissolved Iron	USEPA 200.7	µg/L	--	--	56
Dissolved Manganese	USEPA 200.8	µg/L	--	--	11
Methane	RSK-175	mg/L	--	--	0.55
Ethene			--	--	0.29
Ethane			--	--	0.22
Ferrous iron (1)	Color disc/ 1,10 Phenanthroline	mg/L			Maximum detect 7.0

Notes:

-- Not applicable or not established.

1 Ferrous iron will be analyzed by the field method.

Abbreviations:

CUL Cleanup level

µg/L Micrograms per liter

mg/kg Milligrams per kilogram

REL Remediation level

USEPA U.S. Environmental Protection Agency

Table 3.2
Quality Assurance/Quality Control Criteria

Parameter	QA/QC Criteria		
	Precision [1]	Accuracy	Completeness
Groundwater			
CVOCs	±30%	60–140%	90%
Nitrate	≤19% RPD / 11% RPD	85–119% / 85–121%	95%
Sulfate	≤10% RPD	73–127%	95%
Ammonia	≤15% RPD	75–124%	95%
TOC	≤11% RPD	85–120%	95%
Dissolved Metals	≤20% RPD	75–125%	95%
Methane, Ethene, Ethane	≤25% RPD	75-125%	95%
Ferrous Iron	≤20% RPD	85–115%	95%

Note:

1 Precision criteria apply to analytical precision only. Field duplicate precision will be screened against an RPD of 75%.

Abbreviations:

RPD Relative percent difference
CVOC Chlorinated volatile organic compound
TOC Total organic carbon
QA/QC Quality Assurance/Quality Control

Table 3.3
Quality Assurance/Quality Control Frequency

Parameter	Method Blank [1]	Laboratory Control Samples [1]	Matrix Spike	Matrix Spike Duplicate (MSD) [2]	Surrogate Spike	Field Duplicate	Rinse Blank	Field Blank	Trip Blank
CVOCs	1 per 20 samples	1 per 20 samples	1 per 20 samples	1 per 20 samples	Every sample	1 per 20 samples	1 per event	1 per day	1 per day
MNA Parameters			--	--				--	--

Notes:

-- Not applicable

1 If less than 20 samples, analyze 1 per analytical batch.

2 Duplicates may be analyzed in place of MSDs.

Abbreviations:

CVOC Chlorinated volatile organic compound

MNA Monitored natural attenuation

Table 3.4
Container and Preservation Criteria for Groundwater

Analyte	Method	Sample Handling		
		Container/ Preservative	Holding Time	Sample Preservation Technique
Groundwater				
VOCs	USEPA 8260D	(3) 40-mL pre-weighted VOA vials	14 days	HCl pH<2
Sulfate	ASTM D516-11	250-mL HDPE	28 days	Cool to <6 °C
Nitrate	USEPA Method 353.2	250-mL HDPE	48 hours	Cool to <6 °C
Methane, Ethene, Ethane	RSK-175	(2) 40-mL pre-weighted VOA vials	14 days	HCl pH<2
Ammonia	SM 4500-NHS	250-mL HDPE	28 days	Sulfuric Acid
Ortho-phosphate	EPA 365.1	250-mL HDPE	48 hours	Cool to <6 °C
Total Organic Carbon (TOC)	SM 5310B	250-mL HDPE	28 days	Cool to <6 °C
Dissolved Metals (Fe, Mn)	EPA 200.7/200.8	500-mL HDPE	6 months	HNO_3 & Field Filtered
Ferrous iron [(1)]	Color disc/ 1,10 Phenanthroline	Two 18-mm plastic viewing tubes with color comparator box	Analyze immediately-field method	Ferrous iron reagent power (added to one 25-mL sample aliquot)

Note:

1 Ferrous iron may be analyzed by either the listed laboratory or field method.

Abbreviations:

°C	Degrees Celsius
HCL	Hydrochloric acid
HDPE	High-density polyethylene
HNO_3	Nitric acid
mL	Milliliters
mm	Millimeters
NaOH	Sodium hydroxide
PCE	Tetrachloroethene
oz	Ounces
VOA	Volatile organic analysis
VOC	Volatile organic compound
WMG	Wide-mouth glass

Quality Assurance Project Plan

City of Bothell Service Center

Appendix A
Standard Sampling Procedures

FLOYD | SNIDER
strategy ▪ science ▪ engineering

Two Union Square
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Seattle, WA 98101
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F|S STANDARD GUIDELINE

Low-Flow Groundwater Sample Collection

DATE/LAST UPDATE: November 2023

These procedures should be considered standard guidelines and are intended to provide useful guidance when in the field but are not intended to be step-by-step procedures, as some steps may not be applicable to all projects.

All field staff should be sufficiently trained in the standard guidelines for the sampling method they intend to use and should review and understand these procedures prior to going into the field. It is the responsibility of the field staff to review the standard guidelines with the field manager or project manager and identify any deviations from these guidelines prior to field work. When possible, the project-specific Sampling and Analysis Plan should contain any expected deviations and should be referenced in conjunction with these standard guidelines.

1.0 Scope and Purpose

This standard guideline provides details necessary for collecting representative groundwater samples from monitoring wells using low-flow methods. These guidelines are designed to meet or exceed guidelines set forth by the Washington State Department of Ecology (Ecology). Low-Flow sampling provides a method to minimize the volume of water that is purged and disposed from a monitoring well, and minimizes the impact that purging has on groundwater chemistry during sample collection.

2.0 Equipment and Supplies

Groundwater Sampling Equipment and Tools

- For wells with head less than 25 feet:
  - Peristaltic pump with fully charged internal battery or standalone battery and appropriate connectors
- For wells with head greater than 25 feet:
  - Bladder pump and controller, as well as an air cylinder, or air compressor (with extension cord if near an electrical outlet; with battery and appropriate connectors or generator if not near an outlet)

    OR

  - Low-flow submersible pump and controller (with extension cord if near an electrical outlet; with battery and appropriate connectors or generator if not near an outlet)
- Multi-parameter water quality meter
- Turbidity meter
- Water level meter
- Polyethylene tubing, Teflon tubing, or similar (assume polyethylene unless otherwise specified in SAP) and tubing weights (for wells deeper than approximately 10 feet)
- Silicone tubing
- Filters (if field filtering)
- Tools for opening wells and drums (1/2-inch, 9/16-inch, 5/8 and 15/16-inch sockets ratchet, screwdriver, hammer/rubber mallet, bung wrench; any other necessary tools if non-standard monuments have been used)
- Well keys
- Tube cutters, razor blade, or scissors
- 5-gallon buckets, lids, and clamp
- Decontamination supplies: Alconox (or similar), distilled or deionized water, spray bottles, and paper towels
- Bailer or hand pump to drain well box if full of stormwater
- Trash bags

Lab Equipment

- Sample jars/bottles
- Coolers
- Chain-of-Custody Forms
- Labels
- Ice
- Ziploc bags

Paperwork

- Field notebook with site maps
- Table of well construction details and/or well logs, if available
- Sampling forms (enclosed)
- Purge water plan

- Rite-in-the-Rain pens, paper, and permanent markers
- Site-Specific Health and Safety Plan (HASP) and F|S Accident Prevention Plan (APP)
- List of emergency contacts for the Site or facility
- Safety Data Sheets (SDS) binder
- Sampling and Analysis Plan (SAP) and/or Quality Assurance Project Plan (QAPP) (including tables of analytes and bottle types)

Safety Equipment

- PPE:
  - Waterproof boots (safety toed, depending on site)
  - Safety vest
  - Safety glasses
  - Rain gear
  - Nitrile gloves
  - Work gloves
- First Aid kit
- Emergency kit (fire extinguisher, road flares)
- Traffic barricades or cones

3.0 Standard Procedures

Low-flow groundwater sampling consists of purging groundwater within the well casing at a rate equal to or less than the flow rate of representative groundwater from the surrounding aquifer into the well screen. The flow rate will depend on the hydraulic conductivity of the aquifer and the drawdown, with the goal of minimizing drawdown within the monitoring well. Field parameters are monitored during purging and groundwater samples are collected after field parameters have stabilized. Deviations from these procedures should be approved by the Project Manager and fully documented.

3.1 OFFICE PREPARATION

First, meet with the PM to identify the key objectives of the groundwater sampling effort. This may include the order of wells to be sampled (e.g., if using non-dedicated equipment, wells may need to be sampled in order of least contaminated to most contaminated), whether any wells require redevelopment at least 24-hours prior to sampling, and/or key stabilization parameters (e.g., elevated turbidity may require purging beyond 30 minutes, even if the readings are within 10%).

Conduct a kick-off meeting with the sampling team to discuss site health and safety protocols, data quality objectives, and any site-specific special considerations or sampling procedures.

3.2 TAILGATE SAFETY MEETING

Conduct a tailgate safety meeting prior to beginning work at the site. Emergency evacuation procedures, rally points, and onsite communication protocols should be discussed at the first tailgate meeting and repeated if new personnel join the field team onsite.

The safety meeting should cover the hazards specific to groundwater sampling. Typical hazards include the following:

- Chemical hazards (refer to HASP for site chemical exposure hazards)
- Site hazards
  - Traffic hazards onsite (e.g., truck traffic, heavy machinery)
  - Biological hazards (e.g., spiders or wasps within well monuments)
- Physical hazards associated with lifting and carrying heavy equipment and repeated bending while sampling
- Cuts and abrasions associated with using blades and tools
- Electrical hazards (make sure all wires/cables are in good condition and connections to battery or outlet are secure)
- Heat stress and cold stress

Record the meeting attendees and topics discussed on the front page of the tailgate safety meeting form (included as an attachment to the HASP). All attendees should sign the form.

3.3 OTHER HEALTH AND SAFETY GUIDELINES

The following are additional health and safety guidelines that should be followed in the field. These guidelines are intended to supplement the guidelines and requirements identified in the HASP and are not intended to replace the HASP.

- Review and sign the HASP prior to going into the field.
- Conduct a tailgate safety meeting prior to beginning work at the site as discussed in Section 3.2
- When moving between monitoring wells or switching to different tasks (e.g., transitioning from sampling to cooler QC prior to lab pickup), assess any additional hazards that may be associated with the new location or task. Record additional hazards noted and corrective actions to address those hazards on the Daily Tailgate Safety Meeting and Debrief Form (included as an attachment to the HASP).
- Record near misses and incidents on the Near Miss and Incident Reporting Form (included as an attachment to the HASP) and conduct management/client notifications according to the protocols detailed in the HASP.

3.4 CALIBRATION OF WATER QUALITY METERS

All multi-parameter water quality meters to be used will be calibrated prior to each sampling event. Calibration procedures are outlined in each instrument's specific user manual.

3.5 MONITORING, MAINTENANCE, AND SECURITY

Prior to sampling, depth to water and total depth measurements will be collected and recorded for accessible monitoring wells onsite (or an appropriate subset for larger sites). Check for an existing measuring point (notch or visible mark on top of casing). If a measuring point is not observed, a measuring point should be established on the north side of the casing. The conditions of the well box and bolts will also be observed, and deficiencies will be recorded on the sampling forms or logbook (i.e., missing or stripped bolt). The following should also be recorded:

- Condition of the well box, lid, bolts, locks, and gripper cap, if deficiencies
- Condition of gasket if deficient and if water is present in the well box
- Note any obstructions or kinks in the well casing
- Note any equipment in the well casing, such as transducers, bailers, or tubing
- Condition of general area surrounding the well, such as subsidence, potholes, or if the well is submerged within a puddle.

Replace any missing or stripped bolts and redevelop wells if needed.

3.6 LOW-FLOW PURGING METHOD AND SAMPLING PROCEDURES

Groundwater samples will be collected using low-flow purging and sampling procedures consistent with Ecology guidelines and the U.S. Environmental Protection Agency (USEPA) standard operating procedures (USEPA 1996). The following describes the Low-Flow purging and sampling procedures for collecting groundwater samples using a peristaltic pump. If the water level is greater than approximately 20 to 25 feet below ground surface (bgs), Grundfos or Geotech submersible pumps or bladder pumps can be used since their pumping rates can be adjusted to low-flow levels. Submersible pumps are preferable to bladder pumps in situations where less than 5 feet of water column are present in the well casing.

- Place the peristaltic pump and water quality equipment near the wellhead. Slowly lower new poly tubing down into the well casing approximately to the middle of the well screen. When sampling wells with a bottom screen depth greater than approximately 10 feet, it is important to measure the length of tubing prior to placement as longer lengths of tubing are more likely to get caught or otherwise obstructed and feel like it has reached the well bottom; this issue can be mitigated by using decontaminated stainless steel tubing weights. If the depth of the well screen is not known, lower the appropriate length of tubing to the bottom of the well, making sure that the tubing has not been caught on the slotted well casing, and then raise the tubing 3 to 5 feet off the bottom of the casing (limit this distance to 2 feet for wells with total depth less than 10 feet). Document the estimated depth of the tubing

placement within the well. Connect the tubing to the peristaltic pump using new flex tubing and connect the discharge line to the flow-through cell of the water quality meter. The discharge line from the flow cell should be directed to a bucket to contain the purged water.

- If using a low-flow submersible pump, connect the pump head to dedicated or disposable tubing. If using a bladder pump, connect both the air intake and water discharge ports to decontaminated or disposable tubing, using the manufacturer's instructions to ensure a secure connection. Lower the pump with tubing into the well as described above and connect the water discharge tubing directly to the flow-through cell.
- Measure the depth to water to the nearest 0.01 foot with a decontaminated water level meter and record the information on a sampling form.
- Start pumping the well at a purge rate of 0.1 to 0.2 liters per minute and slowly increase the rate. Purge rate is adjusted using a speed control knob or arrows on peristaltic and low-flow submersible pumps. The purge rate for bladder pumps is controlled by the air compressor, which first pressurizes the pump chamber in order to compress the flexible bladder and force water through the discharge line, and then vents the chamber in order to allow the bladder to refill with water.
    - A good rule of thumb is to pressurize to 10 psi + 0.5 psi/foot of tubing depth and begin with 4 discharge/refill cycles per minute; using greater air pressure and accelerating the pump cycles will increase the purge rate.
- Check the water level. If the water level is dropping, lower the purge rate. Maintain a steady flow with no or minimal drawdown (less than 0.33 feet according to USEPA 2002). Maintaining a drawdown of less than 0.33 feet may not be feasible depending on hydrogeological conditions. If possible, measure the discharge rate of the pump with a graduated cylinder or use a stopwatch when filling sampling jars (500 milliliters [mL] polyethylene or glass ambers) to estimate the rate. When purging water through a flow cell, the maximum flow rate for accurate water quality readings is about 0.5 liters per minute (L/minute).
- The discharge tubing should be connected to the flow cell immediately upon initial water discharge, unless the discharge water is visibly turbid or flocculant is observed. Monitor and record water quality parameters every three to five minutes after one tubing volume (including the volume of water in the flow cell) has been purged.
    - One foot of ¼-inch interior diameter tubing holds about 10 mL of water, and flow-through cells typically hold less than 200 mL of water; one volume should be purged after about 5 minutes at a flow rate of 0.1 L/minute.
- Water-quality indicator parameters that will be monitored and recorded during purging include:
    - pH
    - Specific conductivity

  - Dissolved oxygen
  - Temperature
  - Turbidity
  - Oxidation reduction potential (ORP)

- Continue purging until temperature, pH, turbidity, and specific conductivity are approximately stable (when measurements are within 10 percent) for three consecutive readings, or 30 minutes have elapsed. Because these field parameters (especially dissolved oxygen and ORP) may not reach the stabilization criteria, collection of the groundwater sample will be based on the professional judgment of field personnel at the time of sampling. A minimum of 5 water quality readings should be collected prior to sampling.
- The water sample can be collected once the criteria above have been met.
- If drawdown in the well cannot be maintained at 0.33 feet or less, reduce the flow or turn off the pump for 15 minutes and allow for recovery. If the water quality parameters have stabilized, and if at least two tubing volumes and the flow cell volume have been purged, then sample collection can proceed when the water level has recovered, and the pump is turned back on. This should be noted on the sampling form.
- To collect the water sample, maintain the same pumping rate. After the well has been purged and the sample bottles have been labeled, the groundwater sample will be collected by directly filling the laboratory-provided bottles from the pump discharge line prior to passing through the flow cell. All sample containers should be filled with minimum disturbance by allowing the water to flow down the inside of the bottle or vial. When collecting a volatile organic compound (VOC) sample, fill to the top to form a meniscus over the mouth of the vial prior to placing the cap to eliminate air bubbles. Be careful not to overflow preserved bottles/pre-cleaned Volatile Organic Analyte (VOA) vials.
- If sampling for filtered metals, collect these samples last and fit an in-line filter at the end of the discharge line. Take note of the flow direction arrow on the filter prior to fitting, invert filter to eliminate air bubbles, and allow minimum of 0.5 to 1 liter of groundwater to pass through the filter prior to collecting the sample.
- Sample labels will clearly identify the project name, sampler's initials, sample location and unique sample ID, analysis to be performed, date, and time. After collection, place samples a cooler maintained at a temperature of approximately 4 to 6 degrees Celsius (°C) using ice (if required). Complete the chain-of-Custody forms. Upon transfer of the samples to the laboratory, the Chain-of-Custody Form will be signed by the persons transferring custody of the sample containers to document change in possession.
- When sample collection is complete at a designated location, remove and properly dispose of the non-dedicated tubing. In most cases, this waste is considered solid waste and can be disposed of as refuse. Close and lock the well.

4.0 Decontamination

All reusable equipment that comes into contact with groundwater should be decontaminated using the processes described in this section prior to moving to the next sampling location.

Water Level Meter: The water level indicator and tape will be decontaminated between sampling locations and at the end the day by spraying the entire length of tape that came in contact with groundwater with an Alconox (or similar)/clean water solution followed by a thorough rinse with distilled or deionized water.

Water Quality Sensors and Flow-Through Cell: Distilled water or deionized water will be used to rinse the water quality sensors and flow-through cell. No other decontamination procedures are recommended since they are sensitive equipment. After the sampling event, the water quality meters will be cleaned and maintained according to the specific manual.

Submersible Pump (if applicable): Decontaminating the pump requires running the pump in three progressively cleaner grades of water.

1. Fill a bucket with approximately 4 gallons of an Alconox (or similar)/clean water solution to sufficiently cover the pump. Place the pump and the length of the power cord (if applicable) that was in contact with water into the bucket and run the pump for approximately two minutes or until the volume of water in the bucket has been exhausted.
2. Fill a second bucket containing approximately 4 gallons of clean water to sufficiently cover the pump. Place the pump and cord into this bucket and run the pump for approximately two minutes or until the volume of water in the bucket has been exhausted.
3. Fill a third bucket with approximately 4 gallons of distilled or deionized water to sufficiently cover the pump. Place the pump and cord into this bucket and run the pump for approximately two minutes or until the volume of water in the bucket has been exhausted.

The soap/water solution may be reused; however, rinse water should be collected for disposal as described in Section 5.0 below. When done for the day, dry the exterior of the pump and cord with clean towels to the extent practical prior to storage.

Bladder Pump: Clean the inside and outside of the pump body with an Alconox (or similar)/clean water solution, followed by a thorough rinse with distilled or deionized water. The outside of the air supply line that came in contact with groundwater may also be cleaned with Alconox (or similar) solution and re-used; bladders and water discharge lines must be replaced after each sample is collected.

5.0 Investigation-Derived Waste (IDW)

Unless otherwise specified in the project work plan, water generated during groundwater sampling activities will be contained, transported, disposed of in accordance with applicable laws, and stored in a designated area until transported off-site for disposal. This includes purge water and decontamination waste water.

The approach to handling and disposal of these materials for a typical cleanup site is as follows.

For IDW that is containerized, such as purge water, 55-gallon drums (or other smaller sized drums) approved by the Washington State Department of Transportation will be used for temporary storage pending profiling and disposal. Each container holding IDW will be sealed and labeled as to its contents (e.g., "purge water"), the dates on which the wastes were placed in the container, the owner's name and contact information for the field person who generated the waste, and the site name.

IDW containerized within drums will be characterized relative to applicable waste criteria using data from the sampling locations whenever possible. Material that is designated for off-site disposal will be transported to an off-site facility permitted to accept the waste. Manifests will be used, as appropriate for disposal. Refer to the FS Special Condition Standard Guideline for Investigation Derived Waste for additional information regarding proper profiling and disposal of wastewater generated by groundwater sampling.

Disposable sampling materials and incidental trash such as tubing, paper towels and gloves/other disposable used in sample processing will be placed in heavy-duty garbage bags or other appropriate containers and disposed of as trash in the municipal collection system unless otherwise specified in the SAP.

6.0 Field Documentation

Groundwater sampling activities will be documented in field sampling forms and/or field notebooks, and Chain-of-Custody Forms. Information recorded will, at a minimum, include personnel present (including subcontractors or client representatives), purpose of field event, weather conditions, sample collection date and times, sample analytes, depths to water, water quality parameters, well box/lid conditions, amount of purged water generated, and any deviations from the SAP. Photographs of damaged well casings or well boxes should be taken.

At the end of the day, complete and review the second page of the tailgate safety meeting form detailing additional hazards, corrective actions, near-misses or incidents. Any incidents that result in equipment damage or field staff injuries should be reported immediately to the PM.

7.0 Demobilization

Upon returning to the office, ensure that all equipment is property cleaned and put away in the field room. Equipment with rechargeable batteries should be plugged in as appropriate. It is

preferable to dispose of trash on-site, but any trash left in the field vehicle should be disposed as regular trash at Two Union Square.

If rented equipment or sample coolers will be placed at the front desk for pickup, clearly label each item with the company picking it up, anticipated pickup time frame, and your contact information so front desk staff can contact you if there are any questions. Notify front desk staff if any items require a signature at pickup.

Within one week of returning from the field, the field lead for the event should review field notes, sampling forms and tailgate safety meeting forms with the PM. Following PM review and approval, field notes will be scanned and saved to the project folder. Hard copies should be filed. The PM will provide copies of near miss and incident reports to the Safety Program Manager.

8.0 References

U.S. Environmental Protection Agency (USEPA). 1996. Low-Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells, Revision 2. Region 1. July 30, 1996.

_____. 2002. Groundwater Sampling Guidelines for Superfund and CAR Project Managers. Office of Solid Waste and Emergency Response. EPA 542.S-02-001. May 2002.

Enclosures: Groundwater or Surface Water Sample Collection Form

Record of Revisions:

Revisions	Date
Added health and safety information, reviewed EPA guidance, and added revisions table.	12/9/2022
Added turbidity meter to equipment list and appended updated field form to PDF	11/29/2023

GROUNDWATER OR SURFACE WATER SAMPLE COLLECTION FORM

Project:_____ Date of Collection: _____

Task:_____ Field Personnel: _____

Purge Data

Well ID: _____ Secure: ☐ Yes ☐ No Ecology Tag #: _____ Casing Type/Diameter/Screened Interval _____

Replacement Required: ☐ Monument ☐ Lid ☐ Lock ☐ Bolts: Missing (#) _____ Stripped (#) _____ Other Damage: _____

Depth Sounder decontaminated Prior to Placement in Well: ☐ Yes ☐ No One Casing Volume (gal): _____

Depth of water (from TOC):_____Time: _____

Total Depth (from log or field measurement): _____

After 5 minutes of purging (from top of casing): _____

Begin purge (time): _____End purge (time): _____

Volume purged:_____ Purge water disposal method_____

Volume of Schedule 40 PVC Pipe

Diameter	O.D.	I.D.	Volume (Gal/Linear Ft.)	Weight of Water (Lbs/Lineal Ft.)
1 ¼"	1.660"	1.380"	0.08	0.64
2"	2.375"	2.067"	0.17	1.45
3"	3.500"	3.068"	0.38	3.2
4"	4.500"	4.026"	0.66	5.51
6"	6.625"	6.065"	1.5	12.5

Time	Depth to Water (ft)	Vol. Purged (_____)	pH (s.u.)	DO (mg/L)	Specific Conductivity (µs/cm)	Turbidity (NTU)	Temp (°C)	ORP (mV)	Comments

Sampling Data

Sample No: _____ Location and Depth: _____

Date Collected (mo/dy/yr):_____ Time Collected: _____ Weather:_____

Type: ☐ Ground Water ☐ Surface Water Other: _____ Sample: ☐ Filtered ☐ Unfiltered Filter Type:_____

Sample Collected with: ☐ Bailer ☐ Pump Other: _____ Type: ☐ Peristaltic ☐ Bladder ☐ Submersible Other: _____

Water Quality Instrument Data Collected with: Type: ☐ YSI ProDSS ☐ Turbidity Meter ☐ Other: _____

Sample Decon Procedure: Sample collected with: ☐ decontaminated <u>all</u> tubing; ☐ disposable tubing ☐ dedicated silicon and poly tubing; ☐ dedicated tubing replaced

Sample Description (Color, Turbidity, Odor, Other): _____

Sample Analyses

Analyte	Analysis Method	Sample Container	Quantity	Preservative	Notes

QC samples

Duplicate Sample No: _____ Duplicate Time: _____ MS/MSD: ☐ Yes ☐ No

Signature: _____ **Date:** _____