REPORT

GROUNDWATER MONITORING MARCH 2024
BEAR CREEK VILLAGE SHOPPING CENTER

Submitted to:

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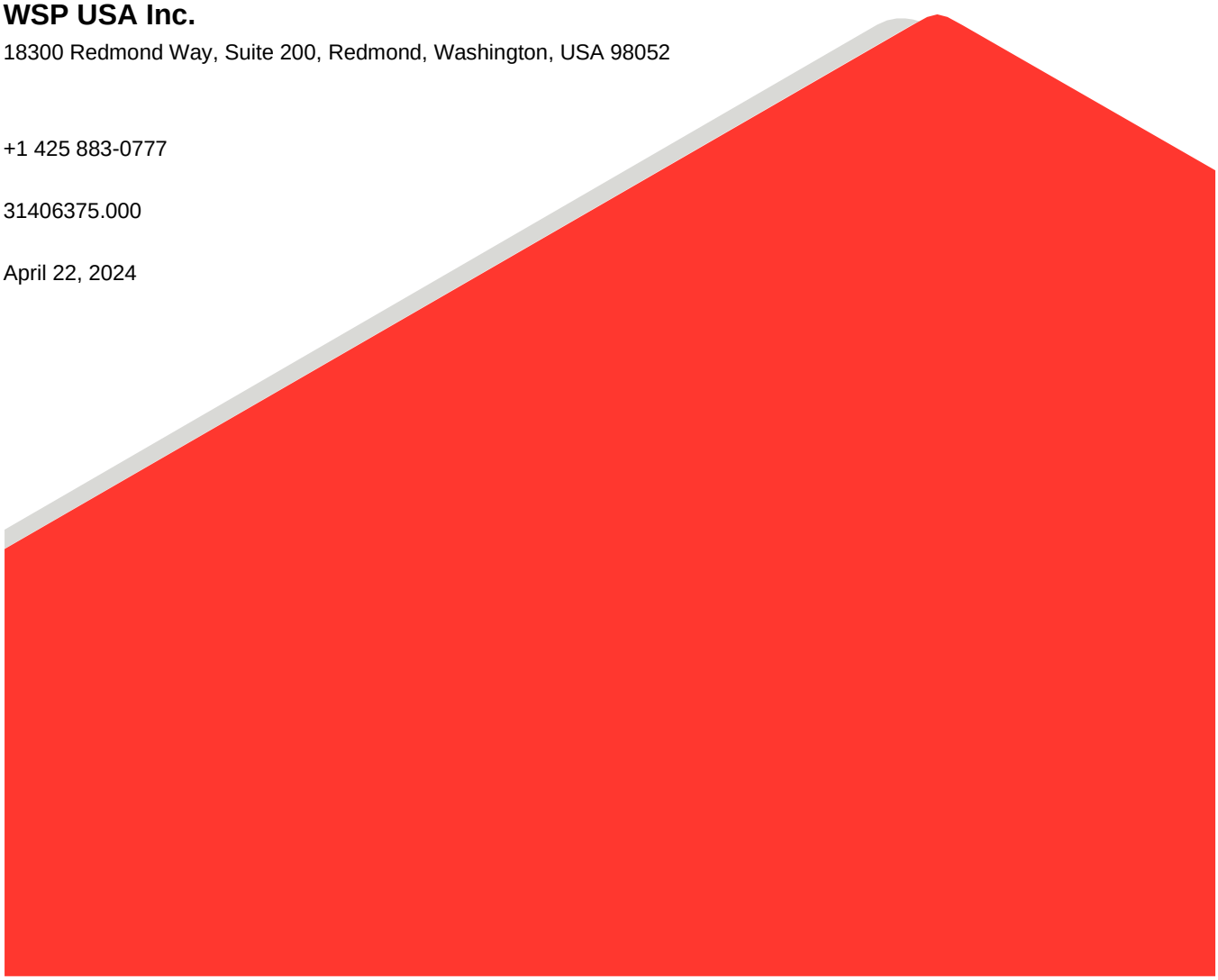

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1.0 INTRODUCTION

This report presents the results of groundwater monitoring conducted by WSP USA Inc. (WSP; formerly Golder Associates USA Inc.) at the Bear Creek Village Shopping Center during the month of March 2024.

1.1 Site Description

The site is currently developed as a shopping center known as the Bear Creek Village Shopping Center, located at 17100 - 17262 Redmond Way, in Redmond, King County, Washington (site). Figure 1 depicts the location of the site on a United States Geological Survey (USGS) topographic map. The existing shopping center development was constructed in phases in approximately 1969, 1977, and 1985. Before the existing shopping center, the site was agricultural land with several houses, outbuildings, and a small warehouse complex along the northern side. The shopping center includes two core building complexes, one stand-alone multi-tenant retail-strip building, and three pad buildings (Taco Time, Jiffy Lube [previously Q-Lube], and O'Reilly Auto Parts [previously Schuck's]). Paved parking areas and limited landscaped areas comprise the remaining area. A dry cleaning establishment known as Bear Creek Cleaners formerly operated on the site. Bear Creek Cleaners was located at the southeastern portion of the site and is the focus of this groundwater monitoring program. A brief background on the history of Bear Creek Cleaners and the resulting remedial investigations is provided in previous monitoring reports (Golder 2020a).

1.2 Purpose and Scope

The purpose of conducting this groundwater monitoring event was to determine groundwater quality with respect to the presence of halogenated volatile organic compounds (HVOCs) due to the former Bear Creek Cleaners operations, and to obtain groundwater elevation data to determine the groundwater flow direction. Golder (now WSP) submitted a request to Ecology dated January 14, 2020 (Golder 2020b) to temporarily reduce the number of groundwater monitoring wells sampled from six to two monitoring wells. Ecology approved the request. The reduction in the number of wells sampled is reflected in the scope of work outlined below.

The scope of work for this groundwater monitoring event included the following:

- Collection of groundwater samples from two on-site groundwater-monitoring wells (MW-10A and MW-13).
- Collection of additional data from these wells including groundwater level measurements, pH, conductivity, dissolved oxygen, turbidity, oxidation-reduction potential, and temperature.
- Implemented field quality control procedures, including collection and analysis of an equipment blank and a duplicate sample from MW-10A.
- Analysis of the groundwater and quality control samples for the presence of HVOCs using United States Environmental Protection Agency (EPA) Method 8260C.
- Measurement of static groundwater levels in all on-site monitoring wells.

2.0 MARCH 2024 GROUNDWATER SAMPLING

2.1 Groundwater Investigation Methods

On March 6, 2024, WSP sampled groundwater from two groundwater monitoring wells (MW-10A and MW-13). The wells were purged and sampled in accordance with EPA low-flow sampling guidelines. Figure 2 depicts the location of all pertinent on-site monitoring wells. The March 2024 analytical results are presented in Table 1.

Historical analytical results for groundwater sampling conducted since 1999 are summarized in Table 2. A narrative of historical sampling activities was provided in previous monitoring reports (Golder 2020a). Sampling conditions and data collected during the monitoring event were recorded on the Sample Integrity Data Sheets (SIDS) provided in Appendix A and summarized in Table 3. The following methods and procedures were used for measuring water levels in site monitoring wells and collecting groundwater samples:

- Depth to groundwater was measured in all on-site wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-9, MW-10A, MW-13, and MW-14) prior to purging and sampling. Water levels were recorded in the field notes and on the SIDS. Table 4 presents depth to water measurements and elevations. Figure 3 depicts groundwater elevations and contours.
- Dedicated tubing is located in all groundwater monitoring wells and is replaced as needed. Each well was slowly purged of water at a rate of approximately 200 milliliters (mL) per minute using a peristaltic pump connected to the dedicated tubing.
- Field parameters of temperature, pH, conductivity, turbidity, dissolved oxygen, and oxidation-reduction potential were measured and recorded during purging at approximately 5-minute intervals until parameters were stable (Table 3). All field parameters were recorded on the SIDS (Appendix A).
- Upon completion of purging, groundwater samples were collected by directly capturing groundwater in three laboratory-provided 40-mL vials pre-preserved with hydrochloric acid. The 40-mL VOA vials were sealed with septa-lined caps and sealed void of air bubbles. The samples were labeled and placed in a cooler with ice.
- For quality control purposes, a duplicate sample and equipment blank were collected. The duplicate sample was collected from MW-10A, which was identified with the sample label MW-20. The equipment blank was collected after sampling at MW-13.
- The collected samples were transported to OnSite Environmental Inc. in Redmond, Washington for chemical analysis on the same day as sample collection, following chain-of-custody protocols.

All groundwater and quality control samples were analyzed for the presence of HVOCs using EPA Method 8260C. The quality control goal for the project analytical data is to achieve a control limit of +/- 20 percent relative percent difference (RPD) between an original and its duplicate sample for an individual well. For the March 2024 event, the duplicate sample identification number MW-20 was collected at the same time from well MW-10A. Results for the duplicate are included in Table 2 as bracketed results associated with MW-10A. Figure 4 depicts the detected HVOC concentrations for the wells sampled in March 2024. Figures 5 and 6 depict the detected concentrations of HVOCs for each well over time.

2.2 Water Level Measurements and Groundwater Flow Direction

Static groundwater levels were measured in all on-site monitoring wells (including those that are not sampled for HVOCs) on March 6, 2024 for the March 2024 groundwater sampling event. The groundwater levels measured that day (as well as during historical sampling) are summarized in Table 4. Groundwater elevations on the site are generally at their highest levels during the wetter winter/spring months and lower during the drier summer/fall months. The March 2024 sampling event groundwater levels were similar to previous winter/spring events and the seasonal trend remained consistent with previous events.

The groundwater elevation contour map for March 6, 2024 data is presented in Figure 3. There is some variability in groundwater flow direction across the site, but the inferred groundwater flow direction is generally west or

northwesterly, away from Bear Creek, which suggests that Bear Creek loses water to the aquifer in this area. The groundwater gradient measured on March 6, 2024 is generally consistent with historical monitoring results. Low groundwater elevations are observed in MW-4 and MW-10A compared with elevation in surrounding wells. Possible causes for the low groundwater elevations could be from excavations in the area during cleanup actions or stormwater pipe installations. MW-4 and MW-10A values were not used in contouring for Figure 3.

2.3 Groundwater Quality

The groundwater analytical data for PCE, and PCE's HVOC degradation compounds trichloroethene (TCE), 1,3-dichlorobenzene (1,3-DCE), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride detected in this round of sampling are summarized in Table 1. Table 2 contains the historical sampling results. Appendix B contains a copy of the laboratory analytical data report and data validation. The HVOC concentrations detected during this round of sampling are depicted in Figure 4. Groundwater HVOC concentrations and elevations with respect to time for MW-10/10A and MW-13 are depicted in Figures 5 and 6 for the last 26 years.

PCE or its degradation compounds were detected in both monitoring wells sampled during this period. Both wells are located on the eastern side of the former dry cleaner facility.

2.3.1 Perchloroethylene

PCE was detected in MW-13 at a concentration of 3.0 micrograms per liter (μg/L) during the March 2024 sampling event. The practical quantitation limit, or PQL, is 0.20 μg/L. Figure 7 depicts the PCE detections for the routinely sampled wells since 1999. This figure shows an overall decline in PCE concentrations across the site over time. PCE concentrations did not exceed the Model Toxics Control Act (MTCA) Method A Cleanup Level of 5.0 μg/L in either well during the March 2024 sampling event. PCE concentrations have not exceeded the MTCA Method A Cleanup Level of 5.0 μg/L in any site monitoring well since the March 2013 sampling event.

2.3.2 Trichloroethene

TCE was detected in MW-10A and MW-13 at concentrations slightly greater than the PQL (0.20 μg/L) during the March 2024 sampling event at concentrations of 0.24 μg/L and 2.3 μg/L, respectively. Figure 8 depicts the TCE detections for MW-2, MW-3, MW-4, MW-10A, and MW-13 since 1997. TCE concentrations did not exceed the MTCA Method A Cleanup Level of 5.0 μg/L in either well during the March 2024 sampling event. Figure 8 shows an overall decline of TCE concentrations across the site over time. MW-13 had a slight increasing TCE trend from 2011 to 2017 but concentrations appear to be stable since 2017. Seasonal fluctuations remain common. TCE concentrations have not exceeded the MTCA Method A Cleanup Level of 5.0 μg/L in any site monitoring wells since the March 2005 sampling event with only two exceptions. The exceptions being TCE was detected during the September 2017 (5.1 μg/L) and September 2021 (5.2 μg/L) monitoring events.

2.3.3 Cis-1,2-Dichlorethene

Cis-1,2-DCE was detected at concentrations greater than the PQL (0.20 μg/L) in MW-10A and MW-13 at concentrations of 2.5 μg/L, and 1.1 μg/L, respectively. Cis-1,2-DCE was also detected in the duplicate taken at MW-10A (MW-20) at a concentration of 2.4 μg/L. The concentrations of cis-1,2-DCE detected during the March 2024 sampling event were all less than the current MTCA Method B Cleanup Level of 16 μg/L. Cis-1,2-DCE has never been detected at a concentration exceeding the current or historical (80 μg/L) MTCA Method B Cleanup Level in effect in any of the site wells.

2.3.4 Vinyl Chloride

Vinyl chloride was detected (0.52 µg/L) in MW-10A during the March 2024 sampling event. Vinyl chloride was detected (0.57 µg/L) in the duplicate (MW-20), with a relative percent difference (RPD) of 9.2, well within standard control limits of +/- 20 percent. Figure 9 depicts the vinyl chloride detections for MW-2, MW-3, MW-4, MW-10A, and MW-13 since 1997. This figure shows a general overall site-wide decline of vinyl chloride concentrations with only one exception, MW-10A. Vinyl chloride concentrations have not exceeded the MTCA Method A Cleanup Level of 0.2 µg/L in any site monitoring well since the March 2007 sampling event except at MW-10A.

2.3.5 1,3-Dichlorobenzene

1,3-Dichlorobenzene was not detected in any of the groundwater samples nor equipment blank samples collected during the March 2024 event. 1,3-Dichlorobenzene has not been detected at concentrations greater than the PQL (0.20 µg/L) in Site groundwater samples since September 2011.

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 Findings and Conclusions

The findings and conclusions of this Groundwater Monitoring Report are summarized as follows:

- During the March 2024 sampling event, there were no detections of any of the constituents of concern (COCs) exceeding MTCA Method A Cleanup Levels, with one exception; MW-10A and associated duplicate sample had a detection (of vinyl chloride exceeding the MTCA Method A Cleanup Level (0.2 mg/L).
- Groundwater monitoring data indicates that groundwater is in compliance with State groundwater cleanup criteria under WAC 173-340-720(9)(c) with the exception of vinyl chloride at monitoring well MW-10A.

3.2 Recommendations

Based on the findings and conclusions of the March 2024 groundwater monitoring period, the following recommendations are made:

- The sampling program at the site will continue on the semi-annual sampling schedule (typically March and September) until two consecutive monitoring events below MTCA cleanup levels are achieved at which time the frequency will be increased to quarterly sampling to confirm that results are representative of all seasons of the year. Thus, the next routine semi-annual monitoring event schedule should be continued, and the September 2024 sample event scheduled.
- The wells sampled during the next groundwater monitoring event should include MW-10A and MW-13 to confirm trends in HVOC concentrations and to support the goal of four consecutive sampling periods with HVOC concentrations that are less than MTCA Cleanup Levels.

4.0 CLOSING

WSP is pleased to continue working with you on the Bear Creek Village Shopping Center project. If you have any questions regarding this report, please feel free to contact Eric Adams at (425) 883-0777.

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https://golderassociates.sharepoint.com/sites/171576/project files/6 deliverables/2024/march 2024 sampling/31406375.000-r-rev0-march2024 bear creek-2024-22-04.docx

5.0 REFERENCES

Golder Associates Inc. (Golder). 2020a. Groundwater Monitoring March 2020 Bear Creek Village Shopping Center. June 3.

Golder. 2020b. Correspondence Re: Request to reduce number of wells sampled at Bear Creek Village Shopping Center. Prepared for Grant Yang, Washington State Department of Ecology. January 14.

Tables

Table 1: March 2024 Groundwater Analytical Results

Analytes	Cleanup Level	Units	Monitoring Well		
			MW-10A	MW-20*	MW-13
PCE	5.0 (A)	µg/L	<0.20	<0.20	3.0
TCE	5.0 (A)	µg/L	0.24	0.21	2.3
VC	0.2 (A)	µg/L	***0.52***	***0.57***	<0.20
cis-1,2-DCE	16 (B)	µg/L	2.5	2.4	1.1
1,3-DCB	---	µg/L	<0.20	<0.20	<0.20
Groundwater Elevation		ft amsl	34.95	34.95	40.21

Notes:

cis-1,2-DCE = *cis*-1,2-Dichloroethene PCE = Perchloroethylene = Tetrachloroethene 1,3-DCB = 1,3-Dichlorobenzene
TCE = Trichloroethene VC = Vinyl Chloride

<0.20 = indicates sample was not detected above the laboratory analytical detection limit.

(A) = MTCA Method A Cleanup Level (Model Toxics Control Act Cleanup Regulation - Chapter 173-340 WAC).

(B) = MTCA Method B formula value (Model Toxics Control Act Cleanup Regulation - Chapter 173-340 WAC and Model Toxics Control Act Cleanup Levels and Risk Calculations - February 1996).

Analytical results in parentheses represent duplicate samples.

Bold Italic = indicates the analytical result exceeds the MTCA Method A or B Cleanup Level.

* Duplicate sample collected at MW-10A.

Groundwater elevation determined using the surveyed elevation (NAVD 88 datum) of the top of each well casing. Elevations given in feet above mean sea level.

Table 2: Historical Groundwater Analytical Results

Monitoring Well ID	Sampling Date	Volatile Organic Compounds (µg/L)			
		PCE	TCE	VC	*cis* -1,2-DCE
MW-2	10/22/1997	***36. 7***	2.23	<5.0	7.52
	2/19/1999	***270***	***6***	<5.0	6
	6/29/1999	<5.0	<5.0	<5.0	<5.0
	9/15/1999	***51***	<5.0	<5.0	<5.0
	12/14/1999	***150***	<5.0	<5.0	<5.0
	3/22/2000	***39***	<5.0	<5.0	<5.0
	9/27/2000	***41***	<2.0	<2.0	<2.0
	12/20/2000	***34***	<2.0	<2.0	<2.0
	3/29/2001	***82***	2.3	<0.20	3
	6/14/2001	***51***	1.7	<0.20	0.42
	9/12/2001	***36***	3.8	***0.22***	3.3
	12/18/2001	***50***	1.2	<0.20	0.33
	3/26/2002	***17 (18)***	0.46 (0.45)	<0.20	0.31 (0.37)
	6/10/2002	***21 (21)***	***8.6 (7.0)***	<0.20 (<0.20)	2.6 (2.4)
	9/12/2002	4.4	<0.20	<0.20	<0.20
	12/9/2002	4.8	0.46	<0.20	0.33
	3/13/2003	***11***	1.2	<0.20	1.1
	6/17/2003	***11***	2.1	***0.47***	3
	9/9/2003	*	*	*	*
	12/9/2003	***30 (28)***	0.63 (0.68)	<0.20	<0.20
	3/10/2004	***17***	0.6	<0.20	<0.20
	6/9/2004	***5.2***	3.6	<0.20	2.3
	9/22/2004	***11***	***5.2***	<0.20	3.6
	12/13/2004	***19***	0.35	<0.20	<0.20
	3/23/2005	***10***	2.1	<0.20	1.5
	6/20/2005	***13***	0.74	<0.20	<0.20
	9/8/2005	4.5	***5.4***	<0.20	6.2
	3/6/2006	***16***	0.33	<0.20	<0.20
	9/21/2006	***6.1***	3.6	<0.20	3.6
	3/16/2007	***14***	0.47	<0.20	0.28
	9/13/2007	***8.8***	4.4	<0.20	4.5
	2/28/2008	***9.6***	0.22	<0.20	<0.20
	9/8/2008	***8.6 (8.1)***	1.9 (1.9)	<0.20	0.96 (1.0)
	3/24/2009	***11(11)***	0.38 (0.28)	<0.20	<0.20
	9/18/2009	***5.2***	4	<0.20	6.4
	5/18/2010	***6***	<0.20	<0.20	<0.20
	10/7/2010	***8.3***	1.3	<0.20	1.1
	3/23/2011	***7.9***	<0.20	<0.20	<0.20
	9/8/2011	***7.2***	1.5	<0.20	1.2
	3/23/2012	***7.0***	<0.20	<0.20	<0.20
	9/14/2012	***5.3***	0.74	<0.20	0.52
	3/28/2013	2.8	<0.20	<0.20	<0.20
	9/4/2013	4.4	0.70	<0.20	0.53
	4/4/2014	3.3	<0.20	<0.20	<0.20
	9/23/2014	2.9	0.73	<0.20	1.7
	3/17/2015	2.6	<0.20	<0.20	<0.20
	9/28/2015	1.2	0.54	<0.20	6.2
	6/15/2016	2.3	0.2	<0.20	<0.20
	9/27/2016	1.6	0.47	<0.20	4.4
	3/29/2017	0.6	<0.20	<0.20	<0.20
	9/14/2017	*	*	*	*
	3/27/2018	0.57	<0.20	<0.20	<0.20
	11/28/2018	2.2	<0.20	<0.20	<0.20
	3/21/2019	1.4	<0.20	<0.20	<0.20
	9/25/2019	1.7	<0.20	<0.20	0.75

Table 2: Historical Groundwater Analytical Results

Monitoring Well ID	Sampling Date	Volatile Organic Compounds (µg/L)			
		PCE	TCE	VC	*cis*-1,2-DCE
MW-3	10/22/1997	<5.0	<5.0	<5.0	1.09
	2/19/1999	***28***	***11***	***7***	18
	6/29/1999	***12***	***8***	***4***	8
	9/15/1999	<5.0	***10***	<5.0	10
	12/14/1999	***12***	***8***	***10***	14
	3/22/2000	***7***	***5***	<5.0	7
	9/27/2000	<2.0	<2.0	<2.0	12
	12/20/2000	2	<2.0	<2.0	8
	3/29/2001	3.8	4.5	***3.3***	8.5
	6/14/2001	3.8	4.6	***1.5***	4.1
	9/12/2001	<0.20	1.4	***0.79***	6.2
	12/18/2001	1.8	***5.7***	***0.98***	5.2
	3/26/2002	0.39	1.5	***0.9***	3.5
	6/10/2002	<0.20	0.95	***0.96***	3.3
	9/10/2002	0.23	1.3	***0.74***	4.3
	12/9/2002	<0.20	0.55	***0.74***	2.6
	3/13/2003	<0.20	0.5(0.50)	***0.45(0.45)***	2.7(2.7)
	6/17/2003	<0.20	0.22	***0.53***	3
	9/9/2003	<0.20	<0.20	***0.36***	2.7
	12/9/2003	<0.20	0.45	***0.33***	3.1
	3/11/2004	<0.20	0.48	***0.42***	1.8
	6/9/2004	<0.20	<0.20	***0.35***	1.9
	9/22/2004	<0.20	<0.20	***0.51***	2.0
	12/13/2004	<0.20	0.25	***0.31***	2.4
	3/23/2005	<0.20	<0.20	***0.28***	2.0
	6/20/2005	<0.20	<0.20	<0.20	1.2 (1.3)
	9/8/2005	<0.20	<0.20	***0.23***	1.1
	3/16/2007	<0.20	<0.20	<0.20	0.88
	9/13/2007	<0.20	<0.20	<0.20	0.62
	2/28/2008	<0.20	<0.20	***0.22***	0.88
	9/8/2008	<0.20	<0.20	<0.20	0.47
	3/24/2009	<0.20	<0.20	<0.20	0.56
	9/18/2009	<0.20	<0.20	<0.20	0.72 (0.73)
	5/18/2010	<0.20	<0.20	<0.20	0.48 (0.52)
	10/7/2010	<0.20	<0.20	<0.20	0.36
	3/23/2011	<0.20	<0.20	<0.20	0.41
	9/8/2011	<0.20	<0.20	<0.20	0.32
	3/23/2012	<0.20	<0.20	<0.20	0.53
	9/14/2012	<0.20	<0.20	<0.20	0.24
	3/28/2013	<0.20	<0.20	<0.20	0.35
	9/4/2013	<0.20	<0.20	<0.20	0.34
	4/4/2014	<0.20	<0.20	<0.20	0.38
	9/23/2014	<0.20	<0.20	<0.20	0.23
	3/17/2015	<0.20	<0.20	<0.20	0.41
	9/28/2015	<0.20	<0.20	<0.20	0.31
	6/15/2016	<0.20	<0.20	<0.20	0.27
	9/27/2016	*	*	*	*
	3/29/2017	<0.20	<0.20	<0.20	0.29
	9/14/2017	*	*	*	*
	3/27/2018	<0.20 (<0.20)	<0.20 (<0.20)	<0.20 (<0.20)	<0.20 (<0.20)
	11/28/2018	<0.20 (<0.20)	<0.20 (<0.20)	<0.20 (<0.20)	0.27 (0.25)
	3/21/2019	<0.20 (<0.20)	<0.20 (<0.20)	<0.20 (<0.20)	<0.20 (<0.20)
	9/25/2019	<0.20 (<0.20)	<0.20 (<0.20)	<0.20 (<0.20)	0.21 (<0.20)

Table 2: Historical Groundwater Analytical Results

Monitoring Well ID	Sampling Date	Volatile Organic Compounds (µg/L)			
		PCE	TCE	VC	*cis*-1,2-DCE
MW-4	10/22/1997	***11.8***	***5.99(0.50)***	***1.9***	6.84
	2/19/1999	***74***	***17***	***16***	26
	6/29/1999	***60***	***16***	***14***	14
	9/15/1999	***42***	***19***	***19***	16
	12/14/1999	***38***	***14***	***12***	12
	3/22/2000	***36***	***9***	<5.0	8
	9/27/2000	***16***	***12***	***8***	14
	12/20/2000	***16***	***8***	<2.0	8
	3/29/2001	***11***	***7.5***	***2.8***	5.1
	6/14/2001	***6.8***	***6.1***	***1***	2.1
	9/12/2001	***8.3***	***6.8***	***1.3***	5.7
	12/18/2001	***12***	***6.3***	***1.7***	3.4
	3/26/2002	***5.1***	2.4	<0.20	1.1
	6/10/2002	***5.7***	2.7	***0.57***	2
	9/12/2002	***5.4***	3.9	***0.66***	3.4
	12/9/2002	***5***	3	***1.6***	2.9
	3/13/2003	***6.3***	1.8	<0.20	0.71
	6/17/2003	2.7	2.6	***0.69***	4.4
	9/9/2003	3.5	2.8	***0.42***	3.2
	12/9/2003	***5.7***	2.5	***0.37***	2.9
	3/11/2004	4.1	1.8	***0.23***	2.0
	6/9/2004	1.8	2.2	***0.33***	2.4
	9/22/2004	1	1.4	***0.68***	2.1
	12/13/2004	3.8	1.3	<0.20	0.93
	3/23/2005	2.2	1.0	<0.20	1.5
	6/20/2005	0.74	0.93	***0.57***	2.1
	9/8/2005	0.64 (0.65)	0.88 (0.88)	<0.20 (<0.20)	2.3 (2.3)
	3/6/2006	1.5 (1.4)	1.2 (1.3)	***0.36 (0.33)***	0.82 (0.85)
	9/21/2006	0.99 (0.85)	1.1 (1.1)	***0.22 (0.25)***	1.7 (2.1)
	3/16/2007	2.6 (2.7)	1.7 (1.7)	<0.20 (<0.20)	1.2 (1.2)
	9/13/2007	0.68 (0.63)	0.65 (0.71)	<0.20 (<0.20)	1.2 (1.3)
	2/28/2008	0.73 (0.72)	0.64 (0.61)	***0.2*** (<0.20)	1.1 (1.1)
	9/8/2008	0.23	2.2	<0.20	4.6
	3/24/2009	0.56	2.9	<0.20	4.8
	9/18/2009	<0.20	1.2	<0.20	8.8
	5/18/2010	0.27	1.6	<0.20	6.9
	10/7/2010	<0.20	0.52	<0.20	2.4
	3/23/2011	0.46	0.48	<0.20	0.66
	9/8/2011	0.23 (0.25)	0.52 (0.58)	<0.20 (<0.20)	5.6 (5.1)
	3/23/2012	0.36 (0.34)	0.58 (0.57)	<0.20 (<0.20)	0.48 (0.47)
	9/14/2012	<0.20 (<0.20)	0.23 (0.29)	<0.20 (<0.20)	5.4 (6.1)
	3/28/2013	<0.20 (<0.20)	0.63 (0.62)	<0.20 (<0.20)	3.4 (3.5)
	9/4/2013	<0.20 (<0.20)	0.21 (0.21)	<0.20 (<0.20)	6.8 (6.7)
	4/4/2014	0.31 (0.29)	0.37 (0.36)	<0.20 (<0.20)	0.83 (0.85)
	9/23/2014	<0.20 (<0.20)	<0.20 (<0.20)	<0.20 (<0.20)	3.8 (3.9)
	3/17/2015	<0.20 (<0.20)	0.32 (0.34)	<0.20 (<0.20)	5.1 (5.4)
	9/28/2015	<0.20 (<0.20)	<0.20 (<0.20)	<0.20 (<0.20)	4.6 (4.6)
	6/15/2016	<0.20 (<0.20)	<0.20 (<0.20)	<0.20 (<0.20)	6.0 (5.7)
	9/27/2016	0.42 (0.37)	1.1 (1.1)	<0.20 (<0.20)	5.5 (5.5)
	3/29/2017	<0.20 (<0.20)	0.35 (0.36)	<0.20 (<0.20)	3.6 (3.8)
	9/14/2017	1.4 (1.5)	3.0 (3.0)	<0.20 (<0.20)	8.0 (8.1)
	3/27/2018	<0.20	<0.20	<0.20	2.4
	11/28/2018	<0.20	<0.20	<0.20	5.2
	3/21/2019	<0.20	<0.20	<0.20	2.8
	9/25/2019	<0.20	<0.20	<0.20	6.0

Table 2: Historical Groundwater Analytical Results

Monitoring Well ID	Sampling Date	Volatile Organic Compounds (µg/L)			
		PCE	TCE	VC	*cis*-1,2-DCE
MW-9	10/22/1997	<5.0	<5.0	<5.0	<5.0
	2/19/1999	<5.0	<5.0	<5.0	<5.0
	6/29/1999	<5.0	<5.0	<5.0	<5.0
	9/15/1999	<5.0	<5.0	<5.0	<5.0
	12/14/1999	<5.0	<5.0	<5.0	<5.0
	3/22/2000	<5.0	<5.0	<5.0	<5.0
	9/28/2000	<2.0	<2.0	<2.0	<2.0
	12/20/2000	<2.0	<2.0	<2.0	<2.0
	3/28/2001	<0.20	<0.20	<0.20	<0.20
	6/14/2001	<0.20	<0.20	<0.20	<0.20
	9/12/2001	<0.20	<0.20	<0.20	<0.20
	12/18/2001	<0.20	<0.20	<0.20	<0.20
	3/26/2002	<0.20	<0.20	***0.21***	0.44
	6/10/2002	<0.20	<0.20	<0.20	0.21
	9/10/2002	<0.20	<0.20	<0.20	0.46
	12/9/2002	<0.20	<0.20	<0.20	0.26
	3/13/2003	<0.20	<0.20	<0.20	<0.20
	6/18/2003	<0.20	<0.20	<0.20	<0.20
	9/9/2003	<0.20	<0.20	<0.20	<0.20
	12/9/2003	<0.20	<0.20	<0.20	<0.20
	3/10/2004	<0.20	<0.20	<0.20	<0.20
	6/9/2004	<0.20	<0.20	<0.20	<0.20
	9/22/2004	<0.20	<0.20	<0.20	<0.20
	12/13/2004	<0.20	<0.20	<0.20	<0.20
	3/23/2005	<0.20	<0.20	<0.20	<0.20
	6/20/2005	<0.20	<0.20	<0.20	<0.20
	9/8/2005	<0.20	<0.20	<0.20	<0.20
	3/6/2006	<0.20	<0.20	<0.20	<0.20
	9/21/2006	<0.20	<0.20	<0.20	<0.20
	3/16/2007	<0.20	<0.20	<0.20	<0.20
	9/13/2007	<0.20	<0.20	<0.20	<0.20
	2/28/2008	<0.20	<0.20	<0.20	<0.20
	9/8/2008	<0.20	<0.20	<0.20	<0.20
	3/24/2009	<0.20	<0.20	<0.20	<0.20
	9/18/2009	<0.20	<0.20	<0.20	<0.20
	5/18/2010	<0.20	<0.20	<0.20	<0.20
	10/7/2010	<0.20	<0.20	<0.20	<0.20
	3/23/2011	<0.20	<0.20	<0.20	<0.20
	9/8/2011	<0.20	<0.20	<0.20	<0.20
	3/23/2012	<0.20	<0.20	<0.20	<0.20
	9/14/2012	<0.20	<0.20	<0.20	<0.20
	3/28/2013	<0.20	<0.20	<0.20	<0.20
	9/4/2013	<0.20	<0.20	<0.20	<0.20
	4/4/2014	<0.20	<0.20	<0.20	<0.20
	9/23/2014	<0.20	<0.20	<0.20	<0.20
	3/17/2015	<0.20	<0.20	<0.20	<0.20
	9/28/2015	<0.20	<0.20	<0.20	<0.20
	6/15/2016	<0.20	<0.20	<0.20	<0.20
	9/27/2016	<0.20	<0.20	<0.20	<0.20
	3/29/2017	<0.20	<0.20	<0.20	<0.20
	9/14/2017	<0.20	<0.20	<0.20	<0.20
	3/27/2018	<0.20	<0.20	<0.20	<0.20
	11/28/2018	<0.20	<0.20	<0.20	<0.20
	3/21/2019	<0.20	<0.20	<0.20	<0.20
	9/25/2019	<0.20	<0.20	<0.20	<0.20

Table 2: Historical Groundwater Analytical Results

Monitoring Well ID	Sampling Date	Volatile Organic Compounds (µg/L)			
		PCE	TCE	VC	*cis*-1,2-DCE
MW-10	10/22/1997	<5.0	<5.0	***1.39***	2.53
	2/19/1999	***67***	***14***	<5.0	22
	6/29/1999	***30***	***14***	<5.0	11
	9/15/1999	***7***	***8***	<5.0	7
	12/14/1999	***15***	***14***	<5.0	21
	3/22/2000	***17***	***9***	<5.0	11
	9/28/2000	3	***5***	<2.0	5
	12/20/2000	4	<2.0	<2.0	6
	3/28/2001	4.2 (4.6)	***6.6 (6.2)***	***2.1 (2.2)***	11 (10)
	6/14/2001	4.4	***6***	***0.97***	4.6
	9/12/2001	1.1	4.4	***1.2***	3.6
	12/18/2001	1.8	***5.7***	***0.98***	5.2
	3/26/2002	1.1	***5.1***	***0.76***	5.1
	6/10/2002	0.28	4.8	***0.95***	4.5
	9/10/2002	1.3	2	<0.20	2.4
	12/9/2002	<0.20	2.5	***0.61***	4.9
	3/13/2003	<0.20	2.2	***0.22***	3.1
	6/18/2003	<0.20	1.6	***0.38***	5.7
	9/9/2003	<0.20	0.84	***0.33***	1.9
	12/9/2003	0.31	3.6	***0.59***	7.5
	3/11/2004	<0.20	2.8	***0.53***	5.7
	6/9/2004	<0.20	0.64	***1.3***	4.4
	9/22/2004	<0.20	0.94	***1.1***	3.2
	12/13/2004	<0.20	0.81	***0.51***	4.8
	3/23/2005	<0.20	0.62	***0.62***	4.1
	6/20/2005	0.5	1.5	***0.25***	3.9
MW-10A	3/16/2007	1.1	1.1	***0.28***	7.10
	9/13/2007	<0.20	1.5	<0.20	9.1
	2/28/2008	<0.20	0.82	***0.33***	14
	9/8/2008	<0.20	0.21	***0.34***	8.7
	3/24/2009	<0.20	<0.20	***0.24***	6.5
	9/18/2009	<0.20	<0.20	***0.27***	5
	5/18/2010	<0.20	<0.20	***0.52***	5.2
	10/7/2010	<0.20	<0.20	***0.26 (0.21)***	6.4 (6.3)
	3/23/2011	<0.20	<0.20	<0.20 (<0.20)	6.8 (6.8)
	9/8/2011	<0.20	<0.20	**0.43**	4.1
	3/23/2012	<0.20	<0.20	**0.21**	4.5
	9/14/2012	<0.20	<0.20	<0.20	4.1
	3/28/2013	<0.20	<0.20	<0.20	4.7
	9/4/2013	<0.20	<0.20	**0.54**	5.9
	4/4/2014	<0.20	<0.20	<0.20	4.2
	9/23/2014	<0.20	<0.20	***0.39***	5.5
	3/17/2015	<0.20	<0.20	***0.65***	5.9
	9/28/2015	<0.20	<0.20	***0.41***	3.7
	6/15/2016	<0.20	<0.20	***0.91***	5.8
	9/27/2016	<0.20	<0.20	***0.37***	3.2
	3/29/2017	<0.20	<0.20	***0.59***	3.8
	9/14/2017	<0.20	<0.20	***0.29***	2.3
	3/27/2018	<0.20	<0.20	***1.3***	3.7
	11/28/2018	<0.20	<0.20	***0.32***	3.7
	3/21/2019	<0.20	<0.20	***1.0***	2.9
	9/25/2019	<0.20	<0.20	<0.20	3.1
	3/17/2020	<0.20	<0.20	**0.7**	3.1
	9/28/2020	<0.20	<0.20	<0.20	2.1
	3/9/2021	<0.20	<0.20	**0.39**	3.0
	9/21/2021	<0.20 (<0.20)	<0.20 (<0.20)	<0.20 (<0.20)	2.4 (2.4)
	3/23/2022	<0.20 (<0.20)	<0.20 (<0.20)	**0.77 (0.79)**	3.0 (3.2)
	9/1/2022	<0.20 (<0.20)	<0.20 (<0.20)	**1.7 (1.6)**	1.7 (1.7)
	3/16/2023	<0.20 (<0.20)	<0.20 (<0.20)	**0.24 (0.25)**	2.8 (2.9)
	9/7/2023	<0.20 (<0.20)	<0.20 (<0.20)	**0.30 (0.31)**	2.5 (2.5)
	3/6/2024	<0.20 (<0.20)	0.24 (0.21)	**0.52 (0.57)**	2.5 (2.4)

Table 2: Historical Groundwater Analytical Results

Monitoring Well ID	Sampling Date	Volatile Organic Compounds (µg/L)			
		PCE	TCE	VC	*cis*-1,2-DCE
MW-13	6/29/1999	***54***	***42***	<5.0	45
	9/15/1999	***38***	***35***	<5.0	41
	12/14/1999	***53***	***48***	<5.0	67
	3/22/2000	***58***	***40***	<5.0	28
	9/27/2000	***27***	***19***	<2.0	16
	12/20/2000	***24***	***13***	<2.0	9
	3/28/2001	***19***	***18***	***0.78***	15
	6/14/2001	***24***	***17***	***0.49***	6
	9/12/2001	***20***	***12***	<0.20	4.5
	12/18/2001	***26***	***27***	***0.44***	14
	3/26/2002	***24***	***21***	<0.20	12
	6/11/2002	***22***	***14***	<0.20	6.5
	9/12/2002	***14 (12)***	***11 (9.2)***	*<0.20* ***(0.24)***	5.8 (4.6)
	12/9/2002	***10 (10)***	***6.5 (6.6)***	***0.30 (0.29)***	2.8 (2.7)
	3/13/2003	***12***	***9.3***	***0.27***	3.8
	6/18/2003	***10***	***6.8***	<0.20	4.3
	9/9/2003	***10***	***6.7***	<0.20	1.9
	12/9/2003	***12***	***7.2***	<0.20	2.7
	3/10/2004	***16 (15)***	***7.7 (7.4)***	<0.20	2.2 (2.2)
	6/9/2004	***7.9***	***5.9***	<0.20	2.3
	9/22/2004	***11(11)***	***7.7 (7.8)***	<0.20 (<0.20)	2.7 (2.7)
	12/13/2004	***9.7***	***5.9***	<0.20	2.3
	3/23/2005	***8.0***	***5.1***	<0.20	1.7
	6/20/2005	4.9	3.1	<0.20	1.0
	9/8/2005	***5.0***	3.9	<0.20	1.5
	3/6/2006	***8.2***	3.5	<0.20	0.78
	9/21/2006	4.2	2.8	<0.20	0.67
	3/16/2007	***6.8***	3.1	<0.20	0.81
	9/13/2007	3.1	2.2	<0.20	0.59
	2/28/2008	***5.7***	1.4	<0.20	0.35
	9/8/2008	1.8	2.4	<0.20	0.57
	3/24/2009	4.3	1.4	<0.20	0.47
	9/18/2009	2	2.2	<0.20	0.66
	5/18/2010	4	1.4	<0.20	0.37
	10/7/2010	1.9	2.5	<0.20	0.66
	3/23/2011	4.8	1	<0.20	<0.20
	9/8/2011	1.5	2.2	<0.20	0.47
	3/23/2012	4.5	2.1	<0.20	0.55
	9/14/2012	1.5	2	<0.20	0.51
	3/28/2013	4.1	2.7	<0.20	0.87
	9/4/2013	3.1	3.4	<0.20	1.4
	4/4/2014	4.4	2.2	<0.20	0.54
	9/23/2014	3.7	3.8	<0.20	1.1
	3/17/2015	3.5	2.9	<0.20	1.2
	9/28/2015	4.3	3.6	<0.20	1.1
	6/15/2016	3	3.4	<0.20	0.74
	9/27/2016	3.2	3.9	<0.20	1.1
	3/29/2017	3.6	2.3	<0.20	0.49
	9/14/2017	1.2	**5.1**	<0.20	1.5
	3/27/2018	2.9	2	<0.20	0.46
	11/28/2018	4	2.5	<0.20	0.64
	3/21/2019	2.9	1.9	<0.20	0.46
	9/25/2019	3	1.9	<0.20	0.47
	3/17/2020	*2.7 (2.7)*	*1.9 (1.9)*	<0.20 (<0.20)	0.46 (0.45)
	9/28/2020	*2.7 (2.8)*	*2.6 (2.6)*	<0.20 (<0.20)	0.82 (0.82)
	3/9/2021	*2.3 (2.2)*	*2.0 (2.1)*	<0.20 (<0.20)	0.84 (0.77)
	9/21/2021	*1.4*	**5.2**	<0.20	1.8
	3/23/2022	*2.1*	2.3	<0.20	1.1
	9/1/2022	*1.9*	3.2	<0.20	1.6
	3/16/2023	1.9	2.8	<0.20	1.8
	9/7/2023	1.9	2.9	<0.20	1.3
	3/6/2024	3.0	2.3	<0.20	1.1

Table 2: Historical Groundwater Analytical Results

Monitoring Well ID	Sampling Date	Volatile Organic Compounds (µg/L)			
		PCE	TCE	VC	*cis*-1,2-DCE
MW-1	10/22/1997	<5.0	<5.0	***7.7***	25.2
	2/19/1999	<5.0	<5.0	<5.0	<5.0
	6/29/1999	<5.0	<5.0	<5.0	<5.0
	9/15/1999	<5.0	<5.0	<5.0	<5.0
	12/14/1999	<5.0	<5.0	<5.0	<5.0
	3/22/2000	<5.0	<5.0	<5.0	<5.0
MW-5	10/22/1997	1.58	2.55	<5.0	<5.0
	2/19/1999	<5.0	<5.0	<5.0	<5.0
	6/29/1999	<5.0	<5.0	<5.0	<5.0
	9/15/1999	<5.0	<5.0	<5.0	<5.0
	12/14/1999	<5.0	<5.0	<5.0	<5.0
	3/22/2000	<5.0	<5.0	<5.0	<5.0
MW-6	10/22/1997	<5.0	<5.0	<5.0	<5.0
	2/19/1999	<5.0	<5.0	<5.0	<5.0
MW-7	10/22/1997	<5.0	<5.0	<5.0	<5.0
	2/18/1999	<5.0	<5.0	<5.0	<5.0
MW-8	10/22/1997	<5.0	<5.0	<5.0	<5.0
	2/18/1999	<5.0	<5.0	<5.0	<5.0
MW-11	10/22/1997	<5.0	<5.0	<5.0	<5.0
	2/18/1999	<5.0	<5.0	<5.0	<5.0
MW-12	10/22/1997	<5.0	<5.0	<5.0	<5.0
	2/19/1999	<5.0	<5.0	<5.0	<5.0
MW-14	6/29/1999	<5.0	<5.0	<5.0	<5.0
	9/15/1999	<5.0	<5.0	<5.0	<5.0
	12/14/1999	<5.0	<5.0	<5.0	<5.0
	3/22/2000	<5.0	<5.0	<5.0	<5.0
	9/27/2000	<2.0	<2.0	<2.0	<2.0
	12/20/2000	<2.0	<2.0	<2.0	<2.0
	3/28/2001	<0.20	<0.20	<0.20	<0.20
	6/14/2001	<0.20	<0.20	<0.20	<0.20
	9/12/2001	<0.20	<0.20	<0.20	<0.20
MTCA Cleanup Levels		***5.0 A***	***5.0 A***	***0.2 A***	***16 B*** [1]

Notes:
Analytical results in parentheses represent duplicate samples.
Bold Italic = indicates the analytical result exceeds the MTCA Method A or B Cleanup Level.
<0.20 = indicates sample was not detected above the laboratory analytical detection limit.
A = MTCA Method A Cleanup Level (Model Toxics Control Act Cleanup Regulation - Chapter 173-340 WAC).
B = MTCA Method B formula value (Model Toxics Control Act Cleanup Regulation - Chapter 173-340 WAC
[1] Current (2014) MTCA Method B value. Historical value was 80 µg/L.
* Groundwater elevation resided beneath the well screen. Sample could not be collected.
cis-1,2-DCE = *cis*-1,2-Dichloroethene PCE = Perchloroethylene = Tetrachloroethene
TCE = Trichloroethene VC = Vinyl Chloride

Table 3: March 2024 Field Parameters

Monitor Well	pH	Conductivity (µS/cm)	Temperature °C	Turbidity NTU	Dissolved Oxygen mg/L	eH rel mV	Purge Rate ml/min	Groundwater Elevation ft amsl
MW-10A	5.99	181.8	13.5	9.3	0.16	5.2	200	34.95
MW-13	5.6	155.1	10.3	8.64	0.39	108.2	200	40.21

Notes:

Groundwater elevation determined using the surveyed elevation (NAVD 88 datum) of the top of each well casing.
Elevations given in feet above mean sea level.

Table 4: Historical Groundwater Elevations

Well No.	Screened Interval (feet bgs)	Reference Elevation*	Date	Depth to Water (feet below TOC)	Groundwater Elevation	Comments
MW-1	10 - 20	43.70	10/22/1997	12.41	31.29	
			1/14/1998	10.06	33.64	
			2/18/1999	8.86	34.84	
			6/29/1999	12.35	31.35	
			9/15/1999	13.45	30.25	
			12/14/1999	9.01	34.69	
			3/22/2000	10.14	33.56	
			9/27/2000	13.59	30.11	
			12/20/2000	12.60	31.10	
			3/29/2001	12.30	31.40	
			6/13/2001	12.06	31.64	
			9/12/2001	13.43	30.27	
			12/17/2001	6.63	37.07	
			3/26/2002	9.82	33.88	
			6/10/2002	11.85	31.85	
			9/10/2002	13.33	30.37	
			12/9/2002	13.80	29.90	
			3/12/2003	11.22	32.48	
			6/17/2003	12.41	31.29	
			9/9/2003	14.02	29.68	
			12/9/2003	9.59	34.11	
			3/10/2004	10.21	33.49	
			6/9/2004	12.85	30.85	
			9/22/2004	12.91	30.79	
			12/13/2004	11.17	32.53	
			3/23/2005	12.55	31.15	
			6/20/2005	10.95	32.75	
			9/8/2005	13.49	30.21	
			3/6/2006	9.89	33.81	
			9/21/2006	12.55	31.15	
			3/16/2007	9.77	33.93	
			9/13/2007	13.26	30.44	
		43.69	2/28/2008	9.68	34.01	New Elevation***
			9/8/2008	NC	NC	
			3/24/2009	9.91	33.78	
			9/18/2009	12.91	30.78	
			5/18/2010	10.01	33.68	
			10/7/2010	12.58	31.11	
			3/23/2011	9.01	34.68	
			9/8/2011	13.03	30.66	
			3/23/2012	8.27	35.42	
		47.39	7/9/2012	---	---	New Elevation****
			9/14/2012	Dry	Dry	
			3/28/2013	10.34	37.05	
			9/4/2013	14.15	33.24	
			4/4/2014	9.27	38.12	
			9/23/2014	12.44	34.95	
			3/17/2015	9.52	37.87	
			9/28/2015	Dry	Dry	
			6/15/2016	11.33	36.06	
			9/27/2016	Dry	Dry	
			3/29/2017	8.65	38.74	
			9/14/2017	Dry	Dry	
			3/27/2018	12.47	34.92	
			9/13/2018	Dry	Dry	
			10/4/2018	Dry	Dry	
			11/28/2018	12.76	34.63	
			3/21/2019	11.30	36.09	
			9/25/2019	13.08	34.31	
			3/17/2020	10.02	37.37	
			9/28/2020	12.74	34.65	
			3/9/2021	9.25	38.14	
			9/21/2021	Dry	Dry	
			3/23/2022	8.44	38.95	
			9/1/2022	Dry	Dry	
			3/16/2023	9.61	37.78	
			9/7/2023	Dry	Dry	
			3/6/2024	8.67	38.72	

Table 4: Historical Groundwater Elevations

Well No.	Screened Interval (feet bgs)	Reference Elevation*	Date	Depth to Water (feet below TOC)	Groundwater Elevation	Comments
MW-2	10 - 20	44.95	10/22/1997	16.70	28.25	
			1/14/1998	11.51	33.44	
			2/18/1999	7.43	37.52	
			6/29/1999	12.97	31.98	
			9/15/1999	15.46	29.49	
			12/14/1999	7.77	37.18	
			3/22/2000	7.77	37.18	
			9/27/2000	16.41	28.54	
			12/20/2000	11.83	33.12	
			3/28/2001	9.67	35.28	
			6/13/2001	9.85	35.10	
			9/12/2001	17.30	27.65	
			12/17/2001	6.42	38.53	
			3/26/2002	7.72	37.23	
			6/10/2002	10.05	34.90	
			9/10/2002	7.11	37.84	
			12/9/2002	15.10	29.85	
			3/12/2003	9.40	35.55	
			6/17/2003	14.94	30.01	
			9/9/2003	below screen	below screen	
			12/9/2003	8.96	35.99	
			3/10/2004	10.42	34.53	
			6/9/2004	12.32	32.63	
			9/22/2004	12.25	32.70	
			12/13/2004	9.45	35.50	
			3/23/2005	10.21	34.74	
			6/20/2005	9.71	35.24	
			9/8/2005	13.20	31.75	
			3/6/2006	8.06	36.89	
			9/21/2006	12.07	32.88	
			3/16/2007	8.00	36.95	
			9/13/2007	12.58	32.37	
		45.01	2/28/2008	8.69	36.32	New Elevation***
			9/8/2008	10.8	34.21	
			3/24/2009	8.85	36.16	
			9/18/2009	13.15	31.86	
			5/18/2010	9.1	35.91	
			10/7/2010	11.17	33.84	
			3/23/2011	7.55	37.46	
			9/8/2011	11.57	33.44	
			3/23/2012	6.97	38.04	
		48.59	7/9/2012	---	---	New Elevation****
			9/14/2012	11.8	36.79	
			3/28/2013	8.01	40.58	
			9/4/2013	11.41	37.18	
			4/4/2014	7.54	41.05	
			9/23/2014	12.25	36.34	
			3/17/2015	7.84	40.75	
			9/28/2015	13.56	35.03	
			6/15/2016	10.18	38.41	
			9/27/2016	13.83	34.76	
			3/29/2017	6.29	42.30	
			9/14/2017	16.93	31.66	
			3/27/2018	8.38	40.21	
			9/13/2018	Dry	Dry	
			10/4/2018	17.2	31.39	
			11/28/2018	9.44	39.15	
			3/21/2019	8.51	40.08	
			9/25/2019	12.31	36.28	
			3/17/2020	7.99	40.60	
			9/28/2020	13.76	34.83	
			3/9/2021	7.65	40.94	
			9/21/2021	15.94	32.65	
			3/23/2022	6.81	41.78	
			9/1/2022	14.24	34.35	
			3/16/2023	8.32	40.27	
			9/7/2023	16.45	32.14	
			3/6/2024	7.9	40.69	

Table 4: Historical Groundwater Elevations

Well No.	Screened Interval (feet bgs)	Reference Elevation*	Date	Depth to Water (feet below TOC)	Groundwater Elevation	Comments
MW-3	10 - 20	45.27	10/22/1997	17.11	28.16	
			1/14/1998	14.26	31.01	
			2/18/1999	12.43	32.84	
			6/29/1999	17.36	27.91	
			9/15/1999	18.70	26.57	
			12/14/1999	12.72	32.55	
			3/22/2000	14.22	31.05	
			9/27/2000	18.72	26.55	
			12/20/2000	17.13	28.14	
			3/28/2001	16.81	28.46	
			6/13/2001	16.82	28.45	
			9/12/2001	18.40	26.87	
			12/17/2001	10.67	34.60	
			3/26/2002	13.52	31.75	
			6/10/2002	16.53	28.74	
			9/10/2002	18.35	26.92	
			12/9/2002	18.12	27.15	
			3/12/2003	15.50	29.77	
			6/17/2003	17.09	28.18	
			9/9/2003	19.30	25.97	
			12/9/2003	13.70	31.57	
			3/10/2004	14.02	31.25	
			6/9/2004	17.46	27.81	
			9/22/2004	17.68	27.59	
			12/13/2004	16.31	28.96	
			3/23/2005	15.04	30.23	
			6/20/2005	16.11	29.16	
			9/8/2005	18.48	26.79	
			3/16/2007	13.15	32.12	
			9/13/2007	17.93	27.34	
			2/28/2008	12.45	32.82	
			9/8/2008	15.15	30.12	
			3/24/2009	13.99	31.28	
			9/18/2009	17.73	27.54	
			5/18/2010	13.96	31.31	
			10/7/2010	16.73	28.54	
			3/23/2011	10.34	34.93	
			9/8/2011	17.47	27.80	
			3/23/2012	9.03	36.24	
		48.91	7/9/2012	---	---	New Elevation****
			9/14/2012	18.41	30.5	
			3/28/2013	10.47	38.44	
			9/4/2013	17.46	31.45	
			4/4/2014	9.34	39.57	
			9/23/2014	15.47	33.44	
			3/17/2015	8.54	40.37	
			9/28/2015	17.56	31.35	
			6/15/2016	12.52	36.39	
			9/27/2016	Dry	Dry	
			3/29/2017	8.80	40.11	
			9/14/2017	Dry	Dry	
			3/27/2018	13.54	35.37	
			9/13/2018	18.40	30.51	
			10/4/2018	17.66	31.25	
			11/28/2018	13.98	34.93	
			3/21/2019	11.26	37.65	
			9/25/2019	16.75	32.16	
			3/17/2020	10.11	38.80	
			9/28/2020	17.40	31.51	
			3/9/2021	9.80	39.11	
			9/21/2021	19.06	29.85	
			3/23/2022	8.74	40.17	
			9/1/2022	18.03	30.88	
			3/16/2023	11.65	37.26	
			9/7/2023	18.86	30.05	
			3/6/2024	9.87	39.04	

Table 4: Historical Groundwater Elevations

Well No.	Screened Interval (feet bgs)	Reference Elevation*	Date	Depth to Water (feet below TOC)	Groundwater Elevation	Comments
MW-4	10 - 20	44.44	10/22/1997	16.18	28.26	
			1/14/1998	13.13	31.31	silted up to 18-19'
			2/18/1999	11.85	32.59	
			6/29/1999	15.44	29.00	
			9/15/1999	17.76	26.68	
			12/14/1999	9.46	34.98	
			3/22/2000	10.50	33.94	
			12/9/2002	15.97	28.47	
			12/20/2000	12.66	31.78	
			3/28/2001	9.64	34.80	
			6/13/01/	9.68	34.76	
			9/12/2001	15.32	29.12	
			12/17/2001	8.42	36.02	
			3/26/2002	8.60	35.84	
			6/10/2002	10.24	34.20	
			9/10/2002	14.40	30.04	
			12/9/2002	15.50	28.94	
			3/12/2003	9.00	35.44	
			6/17/2003	10.53	33.91	
			9/9/2003	13.2	31.24	
			12/9/2003	9.56	34.88	
			3/10/2004	8.46	35.98	
			6/9/2004	11.97	32.47	
			9/22/2004	12.83	31.61	
			12/13/2004	9.86	34.58	
			3/23/2005	16.36	28.08	
			6/20/2005	10.03	34.41	
			9/8/2005	13.53	30.91	
			3/6/2006	8.10	36.34	
			9/21/2006	14.81	29.63	
			3/16/2007	10.45	33.99	
			9/13/2007	14.45	29.99	
		44.32	2/28/2008	10.74	33.58	New Elevation***
			9/8/2008	14.70	29.62	
			3/24/2009	12.80	31.52	
			9/18/2009	16.56	27.76	
			5/18/2010	14.00	30.32	
			10/7/2010	15.48	28.84	
			3/23/2011	10.43	33.89	
			9/8/2011	16.62	27.70	
			3/23/2012	9.02	35.30	
		47.96	7/9/2012	---	---	New Elevation****
			9/14/2012	17.36	30.6	
			3/28/2013	12.08	35.88	
			9/4/2013	17.19	30.77	
			4/4/2014	11.70	36.26	
			9/23/2014	16.66	31.30	
			3/17/2015	12.37	35.59	
			9/28/2015	17.37	30.59	
			6/15/2016	16.47	31.49	
			9/27/2016	18.02	29.94	
			3/29/2017	13.33	34.63	
			9/14/2017	18.33	29.63	
			3/27/2018	16.08	31.88	
			9/13/2018	19.38	28.58	
			10/4/2018	19.15	28.81	
			11/28/2018	15.98	31.98	
			3/21/2019	13.88	34.08	
			9/25/2019	17.06	30.90	
			3/17/2020	11.82	36.14	
			9/28/2020	17.14	30.82	
			3/9/2021	12.03	35.93	
			9/21/2021	17.99	29.97	
			3/23/2022	11.15	36.81	
			9/1/2022	17.84	30.12	
			3/16/2023	13.27	34.69	
			9/7/2023	17.81	30.15	
			3/6/2024	12.21	35.75	

Table 4: Historical Groundwater Elevations

Well No.	Screened Interval (feet bgs)	Reference Elevation*	Date	Depth to Water (feet below TOC)	Groundwater Elevation	Comments
MW-5	10 - 20	44.87	10/22/1997	14.42	30.02	
			1/14/1998	NA	NA	Well not accessible
			2/18/1999	7.69	37.18	
			6/29/1999	10.10	34.77	
			9/15/1999	11.12	33.75	
			12/14/1999	8.06	36.81	
			3/22/2000	8.25	36.62	
			9/27/2000	11.58	33.29	
			12/20/2000	9.84	35.03	
			3/29/2001	9.51	35.36	
			6/13/2001	9.32	35.55	
			9/12/2001	10.63	34.24	
			12/17/2001	6.60	38.27	
			3/26/2002	7.21	37.66	
			6/10/2002	9.65	35.22	
			9/10/2002	9.30	35.57	
			12/9/2002	9.66	35.21	
			3/12/2003	8.38	36.49	
			6/17/2003	9.97	34.9	
			9/9/2003	11.64	33.23	
			12/9/2003	8.66	36.21	
			3/10/2004	7.91	36.96	
			6/9/2004	11.36	33.51	
			9/22/2004	10.15	34.72	
			12/13/2004	8.91	35.96	
			3/23/2005	10.04	34.83	
			6/20/2005	9.00	35.87	
			9/8/2005	10.83	34.04	
			3/6/2006	7.77	37.10	
			9/21/2006	10.61	34.26	
			3/16/2007	7.15	37.72	
			9/13/2007	10.44	34.43	
		44.92	2/28/2008	8.82	36.10	New Elevation***
			9/8/2008	9.79	35.13	
			3/24/2009	8.71	36.21	
			9/18/2009	10.97	33.95	
			5/18/2010	9.02	35.90	
			10/7/2010	9.98	34.94	
			3/23/2011	6.86	38.06	
			9/8/2011	10.42	34.50	
			3/23/2012	6.35	38.57	
		48.52	7/9/2012	---	---	New Elevation****
			9/14/2012	10.69	37.83	
			3/28/2013	7.93	40.59	
			9/4/2013	10.43	38.09	
			4/4/2014	8.09	40.43	
			9/23/2014	10.13	38.39	
			3/17/2015	6.37	42.15[1]	
			9/28/2015	10.52	38.00	
			6/15/2016	9.73	38.79	
			9/27/2016	11.13	37.39	
			3/29/2017	5.87	42.65	
			9/14/2017	11.28	37.24	
			3/27/2018	7.70	40.82	
			9/13/2018	10.47	38.05	
			10/4/2018	10.11	38.41	
			11/28/2018	8.79	39.73	
			3/21/2019	8.11	40.41	
			9/25/2019	10.11	38.41	
			3/17/2020	7.26	41.26	
			9/28/2020	10.62	37.90	
			3/9/2021	6.62	41.90	
			9/21/2021	11.21	37.31	
			3/23/2022	6.35	42.17	
			9/1/2022	10.96	37.56	
			3/16/2023	7.66	40.86	
			9/7/2023	11.38	37.14	
			3/6/2024	6.55	41.97	

Table 4: Historical Groundwater Elevations

Well No.	Screened Interval (feet bgs)	Reference Elevation*	Date	Depth to Water (feet below TOC)	Groundwater Elevation	Comments
MW-6	10 - 20	45.22	10/22/1997	11.01	33.43	
			1/14/1998	9.63	35.59	
			2/18/1999	8.43	36.79	
			6/29/1999	10.70	34.52	
			9/15/1999	11.86	33.36	
			12/14/1999	8.69	36.53	
			3/22/2000	8.80	36.42	
			9/27/2000	11.24	33.98	
			12/20/2000	10.45	34.77	
			3/28/2001	10.19	35.03	
			6/13/2001	9.83	35.39	
			9/12/2001	10.69	34.53	
			12/17/2001	7.61	37.61	
			3/26/2002	8.01	37.21	
			6/10/2002	9.62	35.60	
			12/9/2002	10.30	34.92	
			3/12/2003	9.40	35.82	
			6/17/2003	10.03	35.19	
			9/9/2003	13.11	32.11	
			12/9/2003	9.05	36.17	
			3/10/2004	8.79	36.43	
			6/9/2004	11.40	33.82	
			9/22/2004	10.21	35.01	
			12/13/2004	9.71	35.51	
			3/23/2005	9.84	35.38	
			6/20/2005	8.44	36.78	
			9/8/2005	10.55	34.67	
			3/6/2006	8.00	37.22	
			9/21/2006	10.06	35.16	
			3/16/2007	8.48	36.74	
			9/13/2007	10.17	35.05	
		45.27	2/28/2008	9.13	36.14	New Elevation***
			9/8/2008	9.50	35.77	
			3/24/2009	9.09	36.18	
			9/18/2009	10.76	34.51	
			5/18/2010	9.30	35.97	
			10/7/2010	9.62	35.65	
			3/23/2011	7.84	37.43	
			9/8/2011	10.18	35.09	
			3/23/2012	7.52	37.75	
		48.84	7/9/2012	---	---	New Elevation****
			9/14/2012	10.51	38.33	
			3/28/2013	8.20	40.64	
			9/4/2013	9.81	39.03	
			4/4/2014	7.90	40.94	
			9/23/2014	9.30	39.54	
			3/17/2015	7.95	40.89	
			9/28/2015	10.54	38.30	
			6/15/2016	9.58	39.26	
			9/27/2016	10.96	37.88	
			3/29/2017	7.32	41.52	
			9/14/2017	10.75	38.09	
			3/27/2018	8.31	40.53	
			9/13/2018	8.72	40.12	
			10/4/2018	8.49	40.35	
			11/28/2018	9.39	39.45	
			3/21/2019	8.72	40.12	
			9/25/2019	10.15	38.69	
			3/17/2020	7.56	41.28	
			9/28/2020	10.35	38.49	
			3/9/2021	7.75	41.09	
			9/21/2021	10.05	38.79	
			3/23/2022	7.11	41.73	
			9/1/2022	10.43	38.41	
			3/16/2023	8.08	40.76	
			9/7/2023	10.66	38.18	
			3/6/2024	7.86	40.98	

Table 4: Historical Groundwater Elevations

Well No.	Screened Interval (feet bgs)	Reference Elevation*	Date	Depth to Water (feet below TOC)	Groundwater Elevation	Comments
MW-7	10 - 20	44.01	10/22/1997	18.59	25.85	
			1/14/1998	15.79	28.22	
			2/18/1999	14.27	29.74	
			6/29/1999	18.89	25.12	
			9/15/1999	19.91	24.10	
			12/14/1999	14.19	29.82	
			3/22/2000	16.16	27.85	
			9/27/2000	19.75	24.26	
			12/20/2000	18.44	25.57	
			3/28/2001	18.36	25.65	
			6/13/2001	18.36	25.65	
			9/12/2001	19.43	24.58	
			12/17/2001	12.65	31.36	
			3/26/2002	15.81	28.20	
			6/10/2002	18.21	25.80	
			9/10/2002	19.79	24.22	
			12/9/2002	19.52	24.49	
			3/12/2003	17.02	26.99	
			6/17/2003	18.44	25.57	
			9/9/2003	19.88	24.13	
			9/16/2003	abandoned	abandoned	
MW-8	10 - 20	46.23	10/22/1997	20.79	23.65	
			1/14/1998	17.95	28.28	
			2/18/1999	16.51	29.72	
			6/29/1999	21.11	25.12	
			9/15/1999	22.17	24.06	
			12/14/1999	16.43	29:80	
			3/22/2000	18.34	27.89	
			9/27/2000	22.02	24.21	
			12/20/2000	20.66	25.57	
			3/28/2001	20.52	25.71	
			6/13/2001	20.54	25.69	
			9/12/2001	21.63	24.60	
			12/17/2001	14.86	31.37	
			3/26/2002	18.00	28.23	
			6/10/2002	20.38	25.85	
			9/10/2002	22.00	24.23	
			12/9/2002	21.74	24.49	
			3/12/2003	19.22	27.01	
			6/17/2003	20.60	25.63	
			9/9/2003	22.09	24.14	
			9/16/2003	abandoned	abandoned	

Table 4: Historical Groundwater Elevations

Well No.	Screened Interval (feet bgs)	Reference Elevation*	Date	Depth to Water (feet below TOC)	Groundwater Elevation	Comments
MW-9	10 - 20	44.83	10/22/1997	16.15	28.29	
			1/14/1998	13.23	31.60	
			2/18/1999	10.51	34.32	
			6/29/1999	15.60	29.23	
			9/15/1999	17.67	27.16	
			12/14/1999	11.02	33.81	
			3/22/2000	11.89	32.94	
			9/27/2000	17.01	27.82	
			12/20/2000	15.58	29.25	
			3/28/2001	15.02	29.81	
			6/13/2001	14.84	29.99	
			9/12/2001	16.88	27.95	
			12/17/2001	8.74	36.09	
			3/26/2002	11.42	33.44	
			6/10/1992	14.64	30.19	
			9/10/2002	16.23	28.60	
			12/9/2002	16.78	28.05	
			3/12/2003	13.65	31.18	
			6/17/2003	15.34	29.49	
			9/9/2003	18.15	26.68	
			12/9/2003	12.59	32.44	
			3/10/2004	12.68	32.15	
			6/9/2004	15.76	29.07	
			9/22/2004	15.94	28.89	
			12/13/2004	14.04	30.79	
			3/23/2005	14.08	30.75	
			6/20/2005	14.51	30.32	
			9/8/2005	17.33	27.5	
			3/6/2006	11.65	33.18	
			9/21/2006	16.15	28.68	
			3/16/2007	12.07	32.76	
			9/13/2007	16.94	27.89	
			2/28/2008	12.57	32.26	
			9/8/2008	15.32	29.51	
			3/24/2009	14.18	30.65	
			9/18/2009	16.79	28.04	
			5/18/2010	13.68	31.15	
			10/7/2010	15.73	29.1	
			3/23/2011	10.47	34.36	*Well box replaced.
			9/8/2011	16.63	31.81	These water levels were corrected using the 7/9/12 survey data.
			3/23/2012	10.10	38.3	
		48.44	7/9/2012	---	---	New Elevation****
			9/14/2012	16.09	32.35	
			3/28/2013	12.34	36.1	
			9/4/2013	16.29	32.15	
			4/4/2014	11.25	37.19	
			9/23/2014	15.66	32.78	
			3/17/2015	11.61	36.83	
			9/28/2015	16.77	31.67	
			6/15/2016	15.12	33.32	
			9/27/2016	18.02	30.42	
			3/29/2017	9.71	38.73	
			9/14/2017	17.57	30.87	
			3/27/2018	14.09	34.35	
			9/13/2018	18.67	29.77	
			10/4/2018	18.48	29.96	
			11/28/2018	16.25	32.19	
			3/21/2019	12.03	36.41	
			9/25/2019	16.05	32.39	
			3/17/2020	10.11	38.33	
			9/28/2020	16.17	32.27	
			3/9/2021	9.68	38.76	
			9/21/2021	16.82	31.62	
			3/23/2022	10.55	37.89	
			9/1/2022	16.31	32.13	
			3/16/2023	11.92	36.52	
			9/7/2023	16.67	31.77	
			3/6/2024	11.42	37.02	

Table 4: Historical Groundwater Elevations

Well No.	Screened Interval (feet bgs)	Reference Elevation*	Date	Depth to Water (feet below TOC)	Groundwater Elevation	Comments
MW-10	10 - 20	44.84	10/22/1997	16.61	27.83	
			1/14/1998	13.86	30.98	
			2/18/1999	12.11	32.73	
			6/29/1999	16.91	27.93	
			9/15/1999	18.22	26.62	
			12/14/1999	12.37	32.47	
			3/22/2000	13.87	30.97	
			9/27/2000	18.24	26.60	
			12/20/2000	16.63	28.21	
			3/28/2001	16.40	28.44	
			6/13/2001	16.43	28.41	
			9/12/2001	17.92	26.92	
			12/17/2001	9.92	34.92	
			3/26/2002	12.32	35.52	
			6/10/2002	16.14	28.70	
			9/10/2002	12.84	32.00	
			12/9/2002	18.08	26.76	
			3/12/2003	15.12	29.72	
			6/17/2003	16.67	28.17	
			9/9/2003	18.80	26.04	
			12/9/2003	13.56	31.28	
			3/10/2004	13.75	31.09	
			6/9/2004	17.04	27.80	
			9/22/2004	17.22	27.62	
			12/13/2004	14.97	29.87	
			3/23/2005	16.21	28.63	
			6/20/2005	15.88	28.96	
			8/31/2005	abandoned	abandoned	
MW-10A	15 - 20	44.74	3/16/2007	13.80	30.94	
			9/13/2007	17.67	27.07	
			2/28/2008	13.80	30.94	
			9/8/2008	15.93	28.81	
			3/24/2009	15.26	29.48	
			9/18/2009	17.19	27.55	
			5/18/2010	14.89	29.85	
			10/7/2010	16.72	28.02	
			3/23/2011	12.83	31.91	
			9/8/2011	17.64	27.10	
			3/23/2012	12.03	32.71	
		48.37	7/9/2012	---	---	New Elevation****
			9/14/2012	17.52	30.85	
			3/28/2013	14.20	34.17	
			9/4/2013	17.39	30.98	
			4/4/2014	13.40	34.97	
			9/23/2014	17.26	31.11	
			3/17/2015	14.27	34.10	
			9/28/2015	17.91	30.46	
			6/15/2016	16.95	31.42	
			9/27/2016	18.45	29.92	
			3/29/2017	13.93	34.44	
			9/14/2017	18.78	29.59	
			3/27/2018	17.25	31.12	
			9/13/2018	Dry	Dry	
			10/4/2018	Dry	Dry	
			11/28/2018	17.26	31.11	
			3/21/2019	15.56	32.81	
			9/25/2019	17.78	30.59	
			3/17/2020	13.84	34.53	
			9/28/2020	17.65	30.72	
			3/9/2021	13.37	35.00	
			9/21/2021	18.51	29.86	
			3/23/2022	12.44	35.93	
			9/1/2022	18.42	29.95	
			3/16/2023	14.68	33.69	
			9/7/2023	18.31	30.06	
			3/6/2024	13.42	34.95	

Table 4: Historical Groundwater Elevations

Well No.	Screened Interval (feet bgs)	Reference Elevation*	Date	Depth to Water (feet below TOC)	Groundwater Elevation	Comments
MW-11	10 - 25	47.18	10/22/1997	21.91	22.53	
			1/14/1998	19.05	28.13	
			2/18/1999	17.51	29.67	
			6/29/1999	22.24	24.94	
			9/15/1999	23.31	23.87	
			12/14/1999	17.44	29.74	
			3/22/2000	19.42	27.76	
			9/27/2000	23.13	24.05	
			12/20/2000	21.75	25.43	
			3/28/2001	21.64	25.54	
			6/13/2001	21.85	25.33	
			9/12/2001	22.73	24.45	
			12/17/2001	15.94	31.24	
			3/26/2002	19.10	28.08	
			6/10/2002	21.50	25.68	
			9/10/2002	23.13	24.05	
			12/9/2002	22.84	24.34	
			3/12/2003	20.28	26.90	
			6/17/2003	21.78	25.40	
			9/9/2003	23.20	23.98	
			9/16/2003	abandoned	abandoned	
MW-12	10 - 25	44.03	10/22/1997	17.41	27.03	
			1/14/1998	14.16	29.87	
			2/18/1999	12.95	31.08	
			6/29/1999	17.65	26.38	
			9/15/1999	18.81	25.22	
			12/14/1999	12.84	31.19	
			3/22/2000	14.68	29.35	
			9/27/2000	18.78	25.25	
			12/20/2000	17.30	26.73	
			3/28/2001	17.25	26.78	
			6/13/2001	17.25	26.78	
			9/12/2001	18.49	25.54	
			12/17/2001	11.11	32.92	
			3/26/2002	14.46	29.57	
			6/10/2002	17.05	26.98	
			9/10/2002	18.78	25.25	
			12/9/2002	18.62	25.41	
			3/12/2003	15.94	28.09	
			6/17/2003	17.39	26.64	
			9/9/2003	19.06	24.97	
			9/16/2003	abandoned	abandoned	

Table 4: Historical Groundwater Elevations

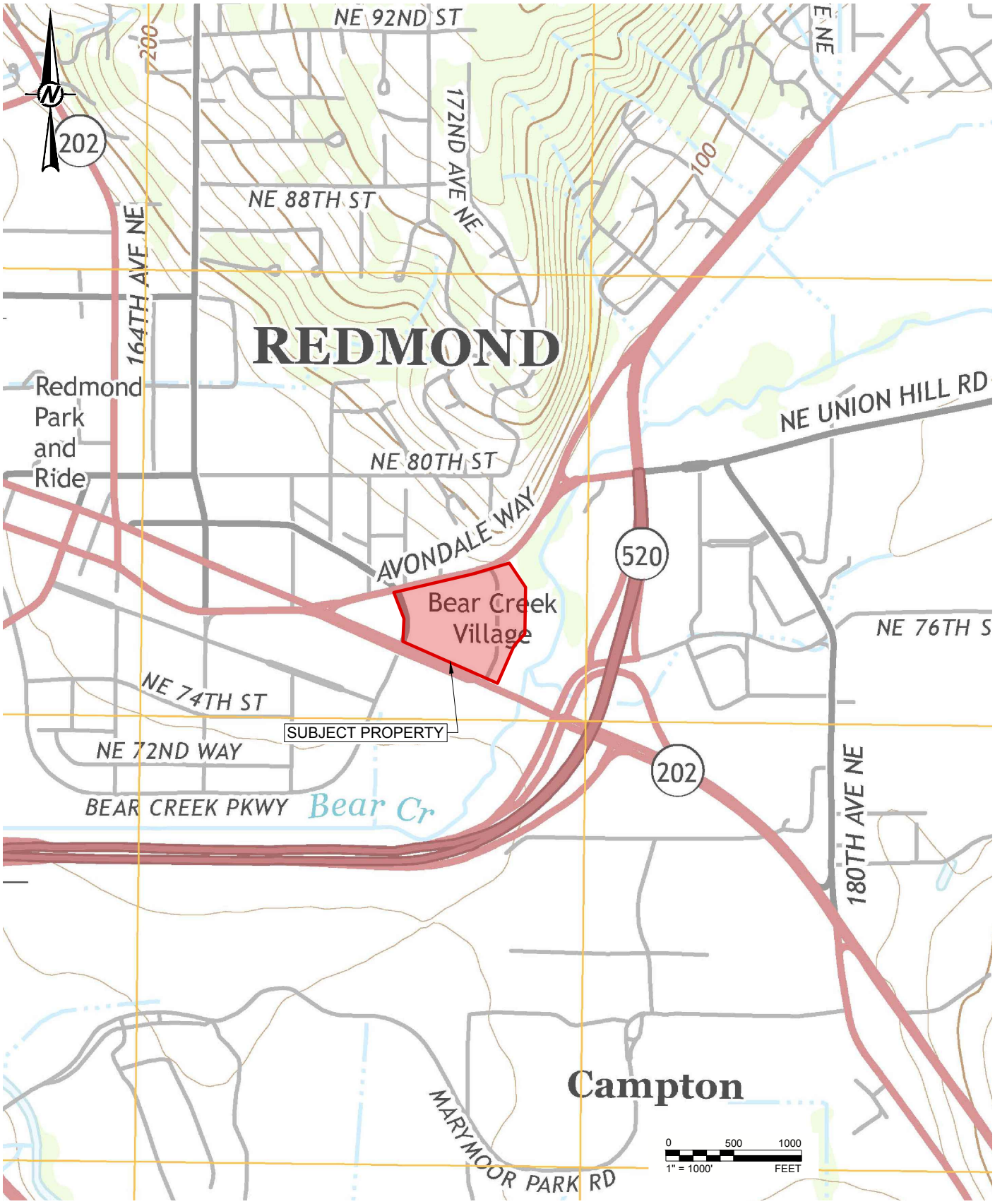
Well No.	Screened Interval (feet bgs)	Reference Elevation*	Date	Depth to Water (feet below TOC)	Groundwater Elevation	Comments
MW-13	10 - 20	43.86	6/29/1999	11.27	32.59	
			9/15/1999	12.50	31.36	
			12/14/1999	6.86	37.00	
			3/22/2000	7.47	36.39	
			9/27/2000	12.26	31.60	
			12/20/2000	12.02	31.84	
			3/28/2001	9.86	34.00	
			6/13/2001	10.71	33.15	
			9/12/2001	12.00	31.86	
			12/17/2001	5.49	38.37	
			3/26/2002	7.12	36.74	
			6/10/2002	9.84	34.02	
			9/10/2002	9.59	34.27	
			12/9/2002	10.10	33.76	
			3/12/2003	9.61	34.25	
			6/17/2003	10.66	33.20	
			9/9/2003	12.62	31.24	
			3/10/2004	7.61	36.25	
			6/9/2004	10.99	32.87	
			9/22/2004	11.85	32.01	
			12/13/2004	12.47	31.39	
			3/23/2005	9.57	34.29	
			6/20/2005	9.90	33.96	
			9/8/2005	11.78	32.08	
			3/6/2006	7.27	36.59	
			9/21/2006	11.78	32.08	
			3/16/2007	7.45	36.41	
			9/13/2007	11.76	32.10	
		43.89	2/28/2008	7.80	36.09	New Elevation***
			9/8/2008	10.74	33.15	
			3/24/2009	8.41	35.48	
			9/18/2009	11.93	31.96	
			5/18/2010	8.6	35.29	
			10/7/2010	11.52	32.37	
			3/23/2011	7.02	36.87	
			9/8/2011	11.52	32.37	
			3/23/2012	6.70	37.19	
		47.47	7/9/2012	---	---	New Elevation****
			9/14/2012	11.28	36.19	
			3/28/2013	7.74	39.73	
			9/4/2013	10.34	37.13	
			4/4/2014	7.45	40.02	
			9/23/2014	10.96	36.51	
			3/17/2015	7.01	40.46	
			9/28/2015	10.62	36.85	
			6/15/2016	9.31	38.16	
			9/27/2016	10.95	36.52	
			3/29/2017	5.85	41.62	
			9/14/2017	11.97	35.5	
			3/27/2018	7.52	39.95	
			9/13/2018	11.2	36.27	
			10/4/2018	10.35	37.12	
			11/28/2018	8.10	39.37	
			3/21/2019	7.93	39.54	
			9/25/2019	9.52	37.95	
			3/17/2020	7.42	40.05	
			9/28/2020	9.58	37.89	
			3/9/2021	7.07	40.40	
			9/21/2021	11.61	35.86	
			3/23/2022	6.47	41.00	
			9/1/2022	9.95	37.52	
			3/16/2023	7.50	39.97	
			9/7/2023	10.95	36.52	
			3/6/2024	7.26	40.21	

Table 4: Historical Groundwater Elevations

Well No.	Screened Interval (feet bgs)	Reference Elevation*	Date	Depth to Water (feet below TOC)	Groundwater Elevation	Comments
MW-14	10 - 20	45.90	6/29/1999	17.02	28.88	
			9/15/1999	18.39	27.51	
			12/14/1999	12.33	33.5 7	
			3/22/2000	13.77	32.13	
			9/27/2000	18.45	27.45	
			12/20/2000	17.00	28.90	
			3/28/2001	16.56	29.34	
			6/13/2001	16.58	29.32	
			9/12/2001	18.12	27.78	
			12/17/2001	9.94	35.96	
			3/26/2002	13.40	32.50	
			6/10/2002	16.22	29.68	
			9/10/2002	18.95	26.95	
			12/9/2002	18.19	27.71	
			3/12/2003	15.22	30.68	
			6/17/2003	16.79	29.11	
			9/9/2003	18.98	26.92	
			3/10/2004	13.81	32.09	
			6/9/2004	17.20	28.70	
			9/22/2004	17.41	28.49	
			12/13/2004	15.36	30.54	
			3/23/2005	16.36	29.54	
			6/20/2005	16.06	29.84	
			9/8/2005	18.25	27.65	
			3/6/2006	13.01	32.89	
			9/21/2006	17.04	28.86	
			3/16/2007	13.64	32.26	
			9/13/2007	17.96	27.94	
		45.89	2/28/2008	12.75	33.14	New Elevation***
			9/8/2008	16.19	29.70	
			3/24/2009	11.37	34.52	
			9/18/2009	Dry	Dry	
			5/18/2010	11.49	34.40	
			10/7/2010	Dry	Dry	
			3/23/2011	10.17	35.72	
			9/8/2011	Dry	Dry	
			3/23/2012	9.67	36.22	
		49.5	7/9/2012	---	---	New Elevation****
			9/14/2012	Dry	Dry	
			3/28/2013	Dry	Dry	
			5/2/2013	12.05	37.45	
			9/4/2013	16.21	33.29	
			4/4/2014	10.58	38.92	
			9/23/2014	16.96	32.54	
			3/17/2015	11.61	37.89	
			9/28/2015	Dry	Dry	
			6/15/2016	16.70	32.80	
			9/27/2016	Dry	Dry	
			3/29/2017	10.78	38.72	
			9/14/2017	Dry	Dry	
			3/27/2018	16.07	33.43	
			9/13/2018	Dry	Dry	
			10/4/2018	Dry	Dry	
			11/28/2018	12.19	37.31	
			3/21/2019	12.66	36.84	
			9/25/2019	15.67	33.83	
			3/17/2020	10.92	38.58	
			9/28/2020	12.66	36.84	
			3/9/2021	10.55	38.95	
			9/21/2021	14.82	34.68	
			3/23/2022	9.85	39.65	
			9/1/2022	Dry	Dry	
			3/16/2023	10.67	38.83	
			9/7/2023	14.77	34.73	
			3/6/2024	10.61	38.89	

Notes:
* These elevations are of the top of the PVC well casing measured in feet above mean sea level (MSL).
***Wells re-surveyed November 2007 and reported in NGVD29 datum.
****Wells re-surveyed in July 2013 and reported in NAVD88 datum.
1 Anomalous groundwater elevation reading. Value was not used in contouring.
TOC = top of PVC well casing.
NC = Not Collected due to damaged well monument.
bgs = below ground surface.
Dry = water level at or below well casing.

Figures



CLIENT
TMT BEAR CREEK SHOPPING CENTER, INC

CONSULTANT
wsp

YYYY-MM-DD	2024-04-09
DESIGNED	EA
PREPARED	REDMOND
REVIEWED	EA
APPROVED	EA

PROJECT
BEAR CREEK VILLAGE SHOPPING CENTER
MARCH 2024 GROUNDWATER MONITORING EVENT
REDMOND, WA

TITLE
SITE LOCATION MAP

PROJECT NO.	TASK	REV.	FIGURE
31407569.000	01.LBR	A	1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI A

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AVONDALE ROAD

SHOPS

MW-11 (ABANDONED)

MW-8 (ABANDONED)

JIFFY LUBE

MW-7 (ABANDONED)

SHOPS

SCHUCK'S

SHOPS

MW-12 (ABANDONED)

SHOPS

TACO TIME

REDMOND WAY

RITE-AID

SAFEWAY

NS

MW-1

NS

MW-14

MW-13

SHOPS

NS

MW-9

MW-10A

MW-2

NS

MW-3

NS

MW-4

NS

MW-5

NS

MW-6

NS

BEAR CREEK

SEE FIGURE 4

0 50 100

1" = 100' FEET

LEGEND

PROPERTY BOUNDARY

MW-12 EXISTING MONITORING WELL

NS NOT SAMPLED

CLIENT
TMT BEAR CREEK SHOPPING CENTER, INC

CONSULTANT
wsp

YYYY-MM-DD	2024-04-09
DESIGNED	EA
PREPARED	REDMOND
REVIEWED	EA
APPROVED	EA

PROJECT
BEAR CREEK VILLAGE SHOPPING CENTER
MARCH 2024 GROUNDWATER MONITORING EVENT
REDMOND, WA

TITLE
GROUNDWATER MONITORING WELL LOCATIONS

PROJECT NO.	TASK	REV.	FIGURE
31407569.000	01.LBR	A	2

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LEGEND

MW-2 40.27	MONITORING WELL LOCATION WITH GROUNDWATER ELEVATION, FEET ABOVE MSL.
36	APPROXIMATE GROUNDWATER CONTOUR WITH ELEVATION, FEET ABOVE MSL. DASHED WHERE APPROPRIATE.
	GROUNDWATER FLOW DIRECTION

NOTE(S)

1. MW-4 AND MW-10A NOT USED FOR CONTOURING

0 30 60
1" = 60' FEET

CLIENT
TMT BEAR CREEK SHOPPING CENTER, INC

CONSULTANT
wsp

YYYY-MM-DD	2023-09-20
DESIGNED	EA
PREPARED	REDMOND
REVIEWED	EA
APPROVED	EA

PROJECT
BEAR CREEK VILLAGE SHOPPING CENTER
MARCH 2024 GROUNDWATER MONITORING EVENT
REDMOND, WA

TITLE
GROUNDWATER ELEVATIONS

PROJECT NO.	TASK	REV.	FIGURE
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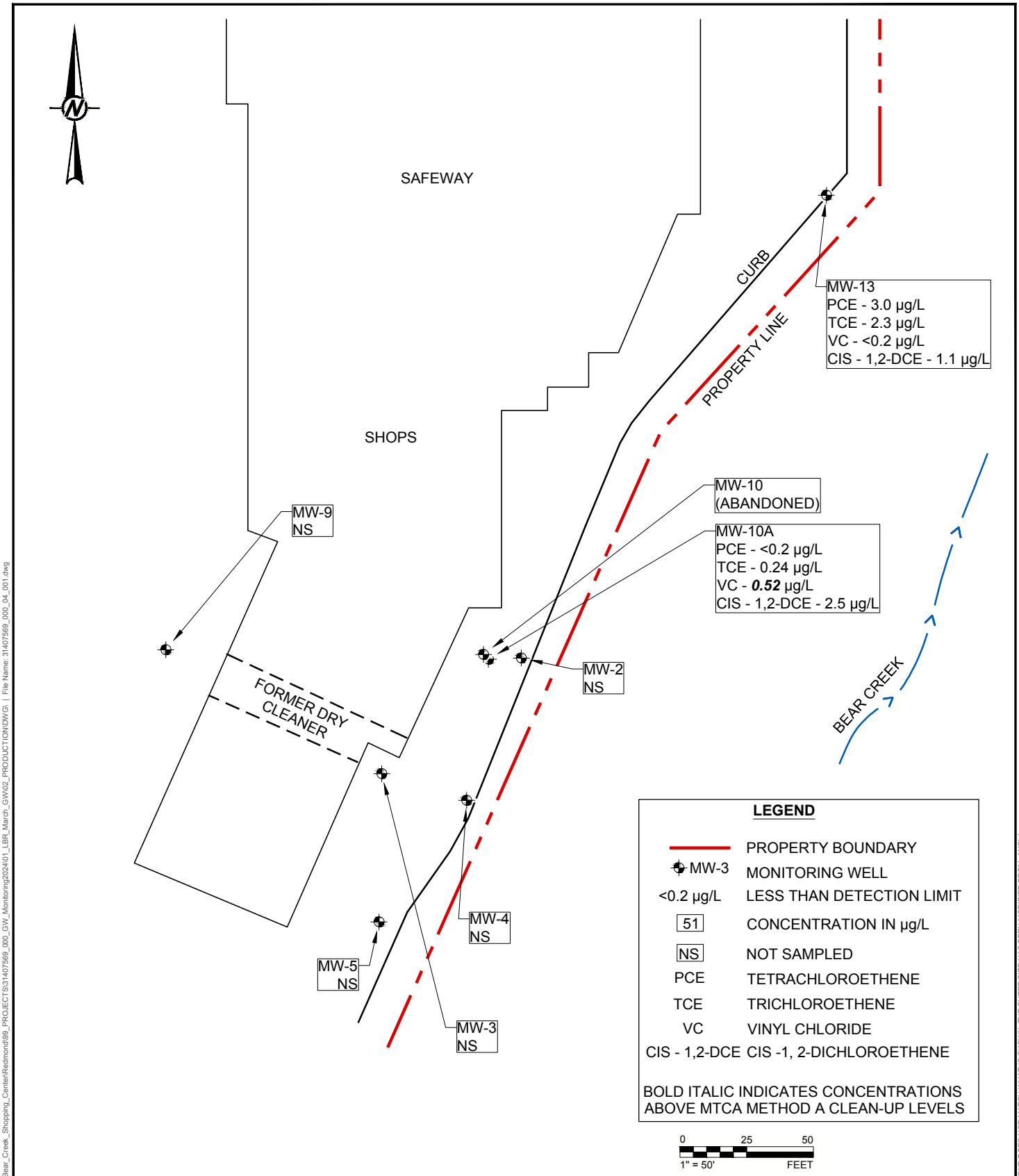

CLIENT
TMT BEAR CREEK SHOPPING CENTER, INC

CONSULTANT
wsp

YYYY-MM-DD	2024-04-09
DESIGNED	EA
PREPARED	REDMOND
REVIEWED	EA
APPROVED	EA

PROJECT
BEAR CREEK VILLAGE SHOPPING CENTER
MARCH 2024 GROUNDWATER MONITORING EVENT
REDMOND, WA

TITLE
GROUNDWATER CONCENTRATIONS - SOUTHEAST AREA

PROJECT NO.	TASK	REV.	FIGURE
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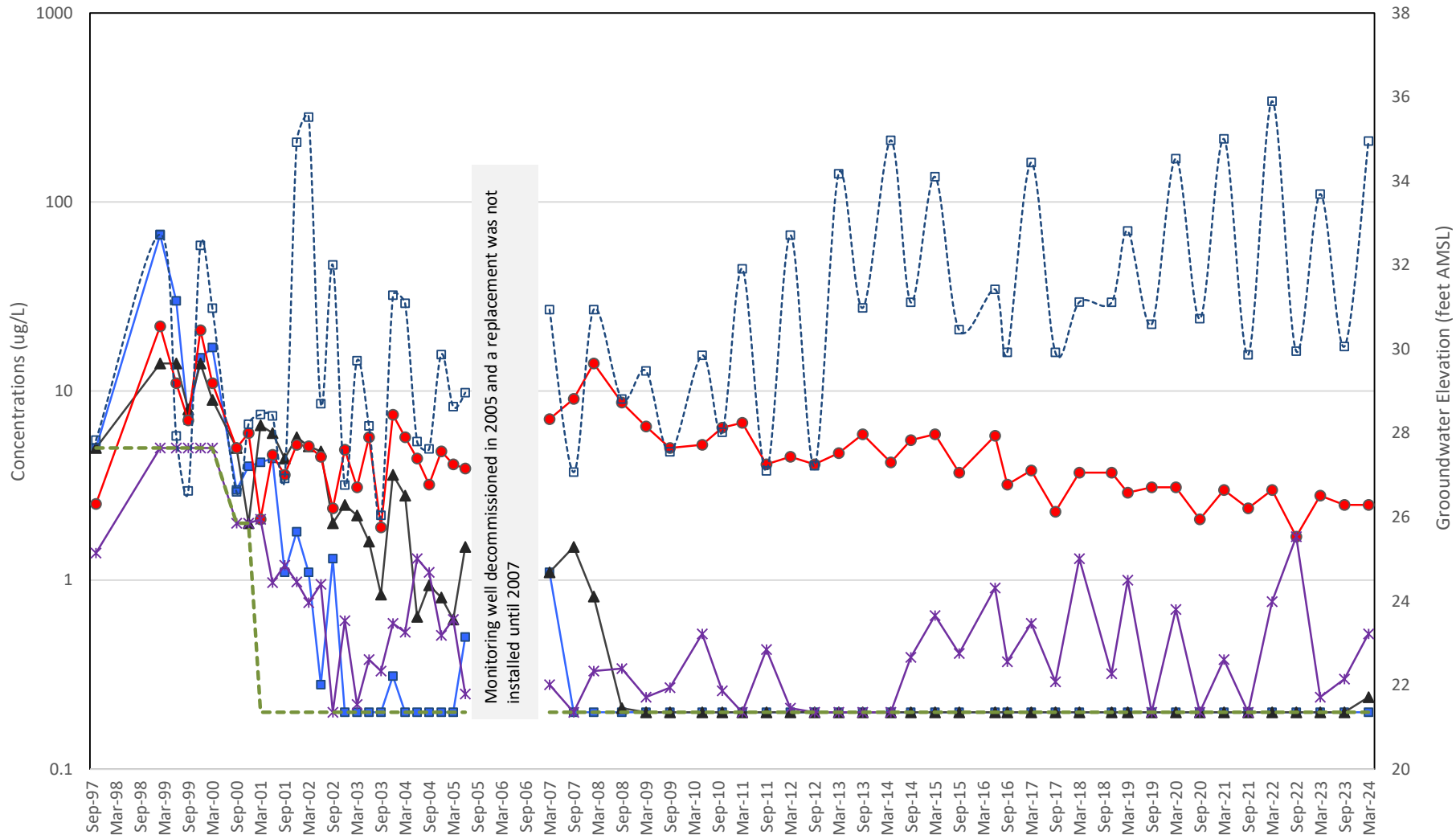


LEGEND

- Concentration of PCE
- Concentration of TCE
- Concentration of cis-1,2-DCE
- Concentration of Vinyl Chloride
- Laboratory Detection Limit
- Groundwater Elevation

CLIENT
TMT Bear Creek Shopping Center, Inc.
c/o JSH Properties, Inc.

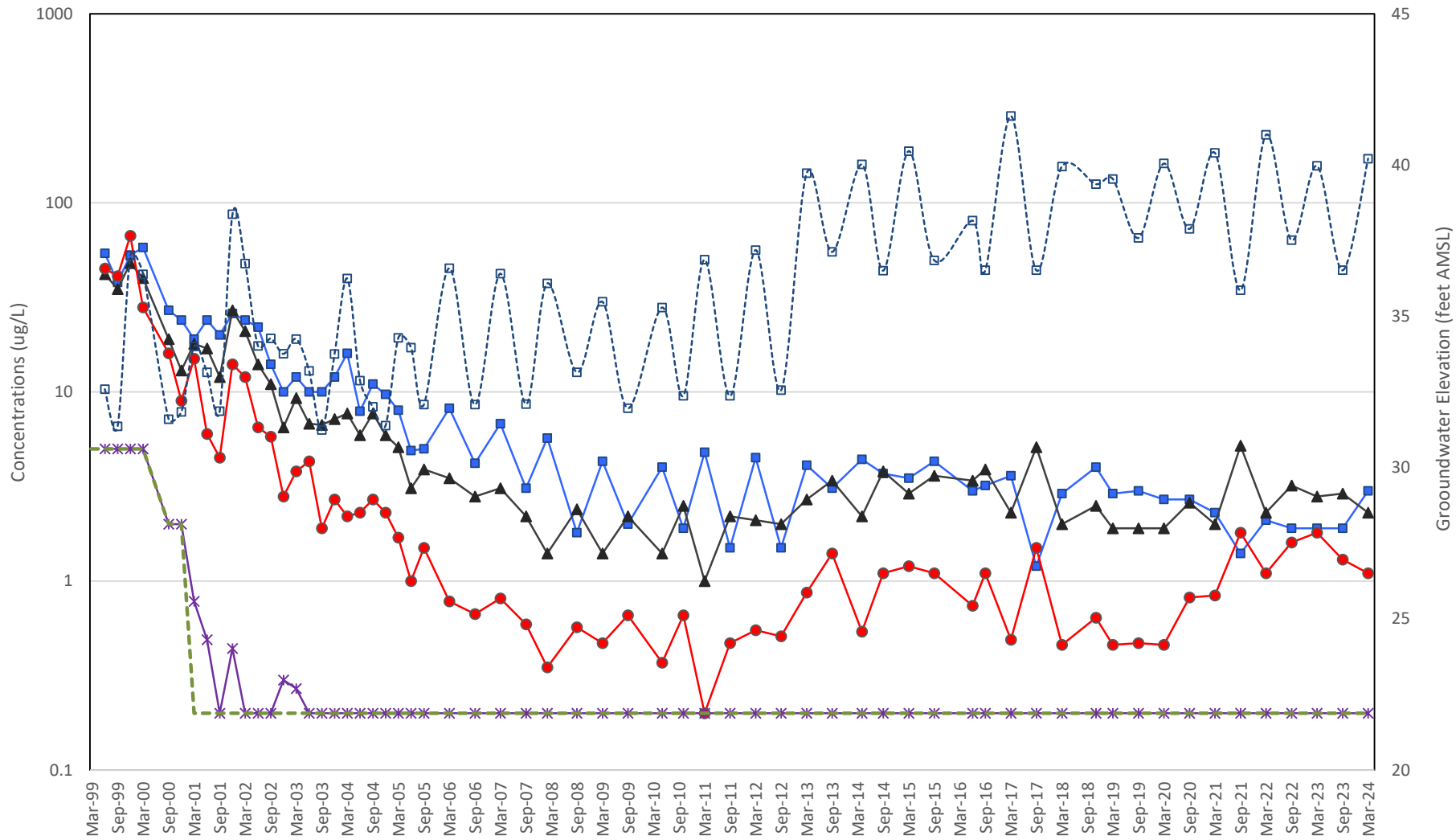
CONSULTANT

PROJECT
Bear Creek Village Shopping Center
Redmond, Washington

TITLE
MW-10 and MW-10A HVOC Detections Over Time
March 2024 Groundwater Monitoring Event

PROJECT NO.	TASK	REV.	FIGURE
31407569	2	A	5

PATH: https://golderassociates.sharepoint.com/sites/171576/Project Files/6 Deliverables/2024/March 2024 Sampling/Figures | FILE NAME: 31407569.000-TMT_BearCreek_Figures 5 through 9.xlsx



LEGEND

- Concentration of PCE
- Concentration of TCE
- Concentration of cis-1,2-DCE
- Concentration of Vinyl Chloride
- Laboratory Detection Limit
- Groundwater Elevation

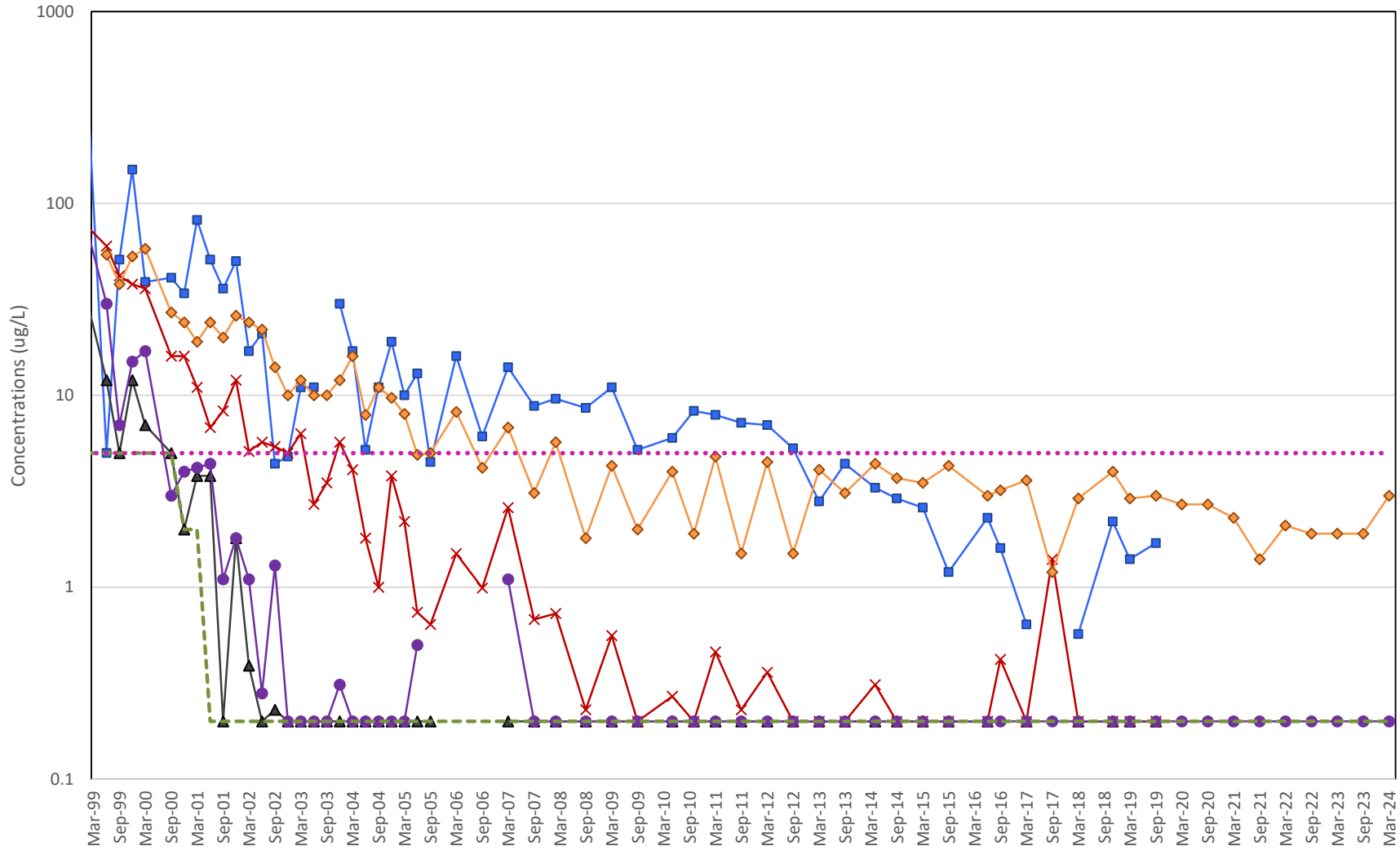
CLIENT
TMT Bear Creek Shopping Center, Inc.
c/o JSH Properties, Inc.

CONSULTANT
wsp

PROJECT
Bear Creek Village Shopping Center
Redmond, Washington

TITLE
MW-13 HVOC Detections Over Time
March 2024 Groundwater Monitoring Event

PROJECT NO.	TASK	REV.	FIGURE
31407569	2	A	6



LEGEND

- MW-2 Concentration of PCE
- MW-3 Concentration of PCE
- MW-4 Concentration of PCE
- MW-10/10A Concentration of PCE
- MW-13 Concentration of PCE
- Laboratory Detection Limit
- Cleanup Level (5 ug/L)

CLIENT
TMT Bear Creek Shopping Center, Inc.
c/o JSH Properties, Inc.

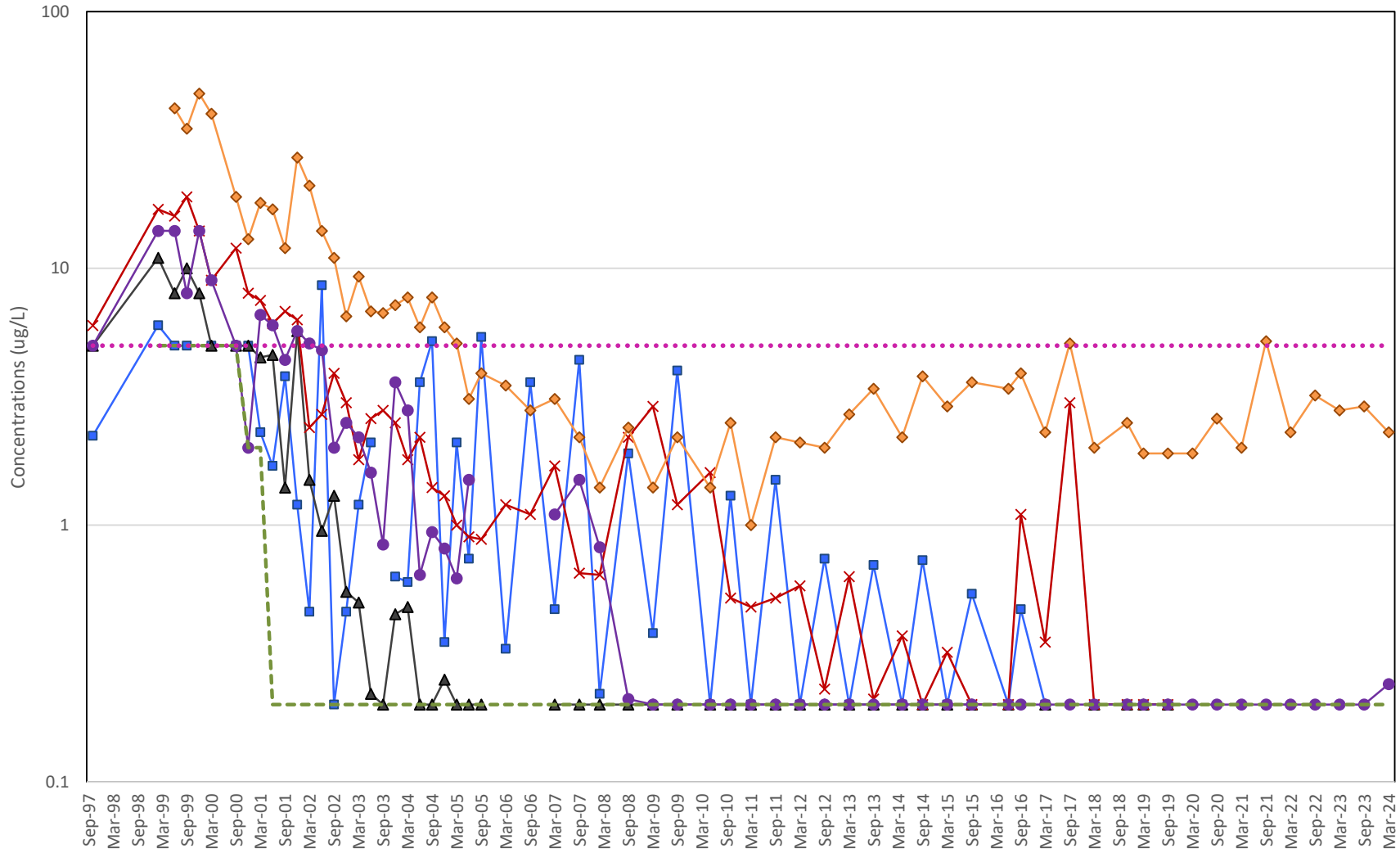
CONSULTANT
wsp

PROJECT
Bear Creek Village Shopping Center
Redmond, Washington

TITLE
PCE Detections Over Time
March 2024 Groundwater Monitoring Event

PROJECT NO.	TASK	REV.	FIGURE
31407569	2	A	7

PATH: https://golderassociates.sharepoint.com/sites/171576/Project Files/6 Deliverables/2024/March 2024 Sampling/Figures | FILE NAME: 31407569.000-TMT_BearCreek_Figures 5 through 9.xlsx



LEGEND

- MW-2 Concentration of TCE
- MW-3 Concentration of TCE
- MW-4 Concentration of TCE
- MW-10/10A Concentration of TCE
- MW-13 Concentration of TCE
- Laboratory Detection Limit
- Cleanup Level (5 ug/L)

CLIENT
TMT Bear Creek Shopping Center, Inc.
c/o JSH Properties, Inc.

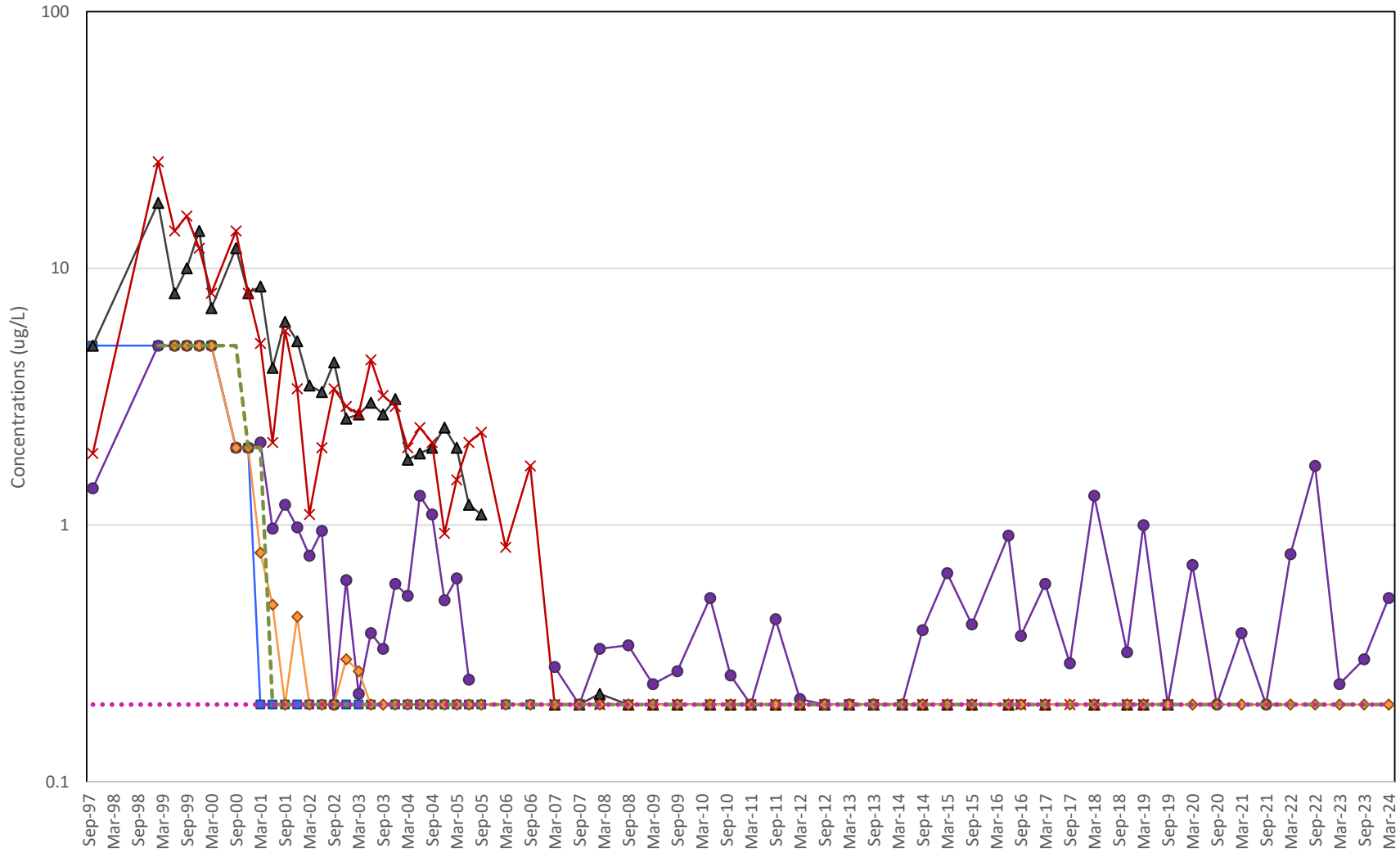
CONSULTANT
wsp

PROJECT
Bear Creek Village Shopping Center
Redmond, Washington

TITLE
TCE Detections Over Time
March 2024 Groundwater Monitoring Event

PROJECT NO.	TASK	REV.	FIGURE
31407569	2	A	8

PATH: https://golderassociates.sharepoint.com/sites/171576/Project Files/6 Deliverables/2024/March 2024 Sampling/Figures | FILE NAME: 31407569.000-TMT_BearCreek_Figures 5 through 9.xlsx



LEGEND

- MW-2 Concentration of Vinyl Chloride
- MW-3 Concentration of Vinyl Chloride
- MW-4 Concentration of Vinyl Chloride
- MW-10/10A Concentration of Vinyl Chloride
- MW-13 Concentration of Vinyl Chloride
- Laboratory Detection Limit
- Cleanup Level (5 ug/L)

CLIENT
TMT Bear Creek Shopping Center, Inc.
c/o JSH Properties, Inc.

CONSULTANT

PROJECT
Bear Creek Village Shopping Center
Redmond, Washington

TITLE
Vinyl Chloride Detections Over Time
March 2024 Groundwater Monitoring Event

PROJECT NO.	TASK	REV.	FIGURE
31407569	1	A	9

APPENDIX A

Sample Integrity Data Sheets

SAMPLE INTEGRITY DATA SHEET

Plant/Site Bear Creek Village **Project No.** 31407569.000

Site Location Redmond, WA **Sample ID** MW-10A-20240306

Sampling Location Groundwater Monitoring well – end of dedicated sampling tube (dup MW-20-20240306)

Technical Procedure Reference(s) TG 1.2-23; TG 1.4-6a; TG 1.2-20

Type of Sampler Peristaltic Pump

Date 3/6/24 **Time** 1155 / 1200

Media water **Station** MW-10A

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level: 13.42 BTOC

Screened Interval: unknown

Pump intake at: – BTOC

Sample Description clear, no odor, no sheen

Field Measurements on Sample (pH, conductivity, etc.)

See Field Parameters Sheet

Aliquot Amount		Container	Preservation / Amount
3- 40 mL	HVOC	VOA Vial	HCl

Sampler (signature) [signature] **Date** 3/6/24

Supervisor (signature) Eric Adams **Date** 3/8/24

SAMPLE INTEGRITY DATA SHEET

Well ID MW-10A | MW-20 for duplicate
Date 3/6/24
Time Begin Purge 1120
Time Collect Sample 1155 / 1200

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	Turbidity NTU	DO mg/L	eH rel mV
13.50	1125		5.89	201.4	13.4	80.1	0.49	56.8
13.51	1130		6.01	188.3	13.4	35.5	0.21	31.0
13.51	1135		6.03	184.5	13.5	22.6	0.17	20.8
13.51	1140		6.00	183.6	13.6	16.8	0.15	12.9
13.51	1145		6.00	182.5	13.4	13.6	0.15	7.8
13.51	1150		5.99	181.8	13.5	9.33	0.16	5.2

Comments:

Flow Rate: 200 mL/min

SAMPLE INTEGRITY DATA SHEET

Sampler's Initials AP

Plant/Site Bear Creek Village **Project No.** 31407569.000

Site Location Redmond, WA **Sample ID** MW-13-20240306

Sampling Location Groundwater Monitoring well – end of dedicated sampling tube

Technical Procedure Reference(s) TG 1.2-23; TG 1.4-6a; TG 1.2-20

Type of Sampler Peristaltic Pump

Date 3/6/24 **Time** 1240

Media water **Station** MW-13

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level: 7.26 BTOC

Screened Interval: unknown

Pump intake at: BTOC

Sample Description clear, no odor, no sheen

Field Measurements on Sample (pH, conductivity, etc.)

See Field Parameters Sheet

Aliquot Amount		Container	Preservation / Amount
3- 40 mL	HVOC	VOA Vial	HCl

Sampler (signature) [signature] **Date** 3/6/24

Supervisor (signature) Eric Adams **Date** 3/8/24

SAMPLE INTEGRITY DATA SHEET

Well ID MW-13
Date 3/6/24
Time Begin Purge 1212
Time Collect Sample 1240

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	Turbidity NTU	DO mg/L	eH rel mV
7.71	1215		5.58	155.1	10.6	67.2	0.25	113.8
7.71	1220		5.59	154.9	10.6	41.0	0,22	112.5
7.71	1225		5.60	155.0	10.3	19.4	0.33	112.7
7.71	1230		5.59	154.4	10.3	11.3	0.37	110.8
7.71	1235		5.60	155.1	10.3	8.64	0.39	108.2

Comments: iron bacteria in flow cell

Flow Rate: 200 mL/min

Sampler's Initials: AP

SAMPLE INTEGRITY DATA SHEET

Plant/Site Bear Creek Village **Project No.** 31407569.000

Site Location Redmond, WA **Sample ID** EB- 20240306

Sampling Location Groundwater Monitoring well – end of dedicated sampling tube

Technical Procedure Reference(s) TG 1.2-23; TG 1.4-6a; TG 1.2-20

Type of Sampler Peristaltic Pump

Date 3/6/24 **Time** 1245

Media water **Station** MW-13, equipment blank

Sample Type: **grab** time composite space composite

Sample Acquisition Measurements (depth, volume of static well water and purged water, etc.)

Static Water Level: N/A BTOC

Screened Interval: N/A

Pump intake at: N/A BTOC

Sample Description Lab-provided DI water pumped through new peristaltic pump tubing

Field Measurements on Sample (pH, conductivity, etc.)

See Field Parameters Sheet

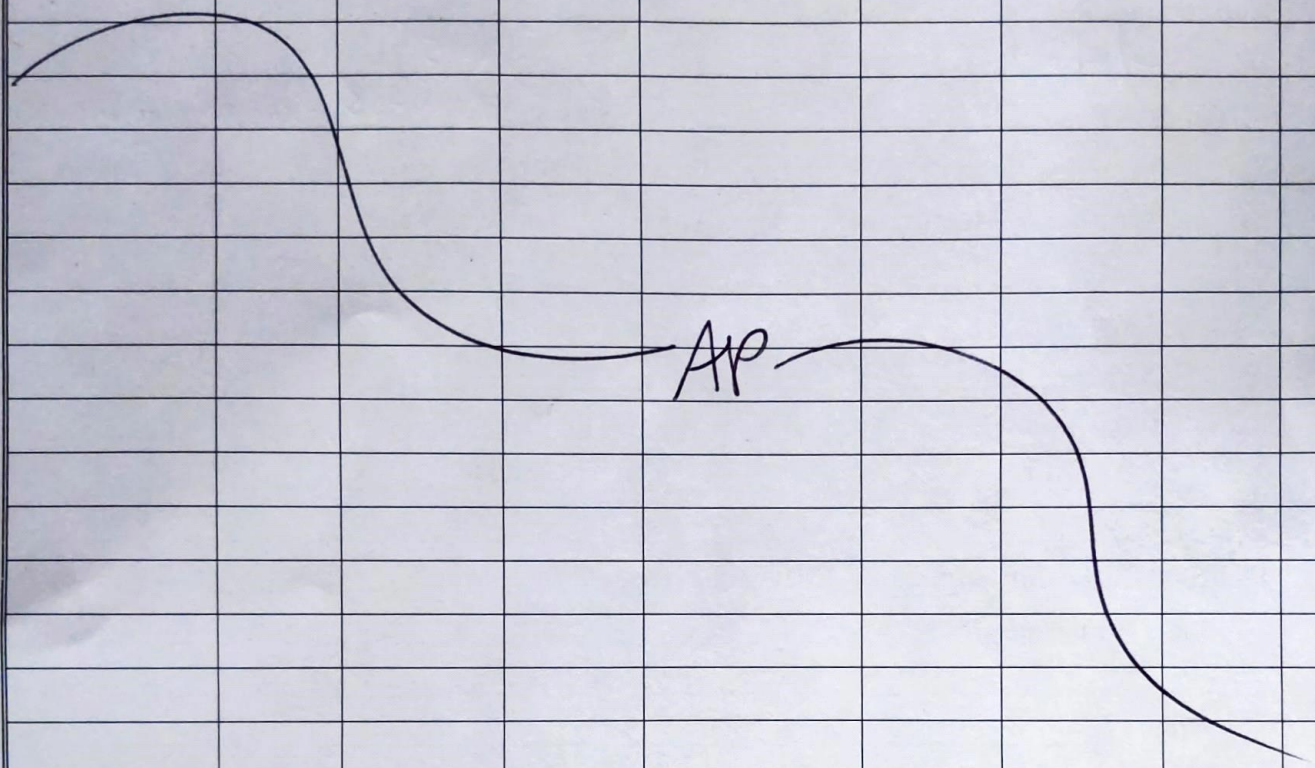
Aliquot Amount		Container	Preservation / Amount
3- 40 mL	HVOC	VOA Vial	HCl

Sampler (signature) [signature] **Date** 3/6/24

Supervisor (signature) Eric Adams **Date** 3/8/24

Well ID_ EB-20240306
Date 3/6/24
Time Begin Purge N/A
Time Collect Sample 1245

Water Level feet bmp	Time	Volume Purged	pH	Conductivity uS/cm	Temp. °C	Turbidity NTU	DO mg/L	eH rel mV



Comments:

Flow Rate: mL/min N/A

Sampler's Initials AP

APPENDIX B

Laboratory Analytical Report and Data Validation

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

March 12, 2024

Eric Adams
WSP USA Inc.
18300 Redmond Way, Suite 200
Redmond, WA 98052-3333

Re: Analytical Data for Project 31407569.000
Laboratory Reference No. 2403-069

Dear Eric:

Enclosed are the analytical results and associated quality control data for samples submitted on March 6, 2024.

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: March 12, 2024
Samples Submitted: March 6, 2024
Laboratory Reference: 2403-069
Project: 31407569.000

Case Narrative

Samples were collected on March 6, 2024 and received by the laboratory on March 6, 2024. 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

The percent recovery for Dichlorodifluoromethane and Bromomethane is outside the control limits in the Matrix Spike or Matrix Spike Duplicate. The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

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.

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: March 12, 2024
Samples Submitted: March 6, 2024
Laboratory Reference: 2403-069
Project: 31407569.000

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-10A-20240306**					
Laboratory ID:	03-069-01					
Dichlorodifluoromethane	ND	1.0	EPA 8260D	3-8-24	3-8-24	
Chloromethane	ND	1.3	EPA 8260D	3-8-24	3-8-24	
Vinyl Chloride	0.52	0.20	EPA 8260D	3-8-24	3-8-24	
Bromomethane	ND	1.0	EPA 8260D	3-8-24	3-8-24	
Chloroethane	ND	1.0	EPA 8260D	3-8-24	3-8-24	
Trichlorofluoromethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Iodomethane	ND	2.0	EPA 8260D	3-8-24	3-8-24	
Methylene Chloride	ND	1.0	EPA 8260D	3-8-24	3-8-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1-Dichloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
2,2-Dichloropropane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
(cis) 1,2-Dichloroethene	2.5	0.20	EPA 8260D	3-8-24	3-8-24	
Bromochloromethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Chloroform	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Carbon Tetrachloride	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1-Dichloropropene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Trichloroethene	0.24	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dichloropropane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Dibromomethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Bromodichloromethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Tetrachloroethene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,3-Dichloropropane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Dibromochloromethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Chlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Bromoform	ND	1.0	EPA 8260D	3-8-24	3-8-24	

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: March 12, 2024
Samples Submitted: March 6, 2024
Laboratory Reference: 2403-069
Project: 31407569.000

VOLATILE ORGANICS EPA 8260D
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-10A-20240306**					
Laboratory ID:	03-069-01					
Bromobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
2-Chlorotoluene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
4-Chlorotoluene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	3-8-24	3-8-24	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Hexachlorobutadiene	ND	1.0	EPA 8260D	3-8-24	3-8-24	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	3-8-24	3-8-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*79*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*95*	*78-125*				

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: March 12, 2024
Samples Submitted: March 6, 2024
Laboratory Reference: 2403-069
Project: 31407569.000

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-20-20240306**					
Laboratory ID:	03-069-02					
Dichlorodifluoromethane	ND	1.0	EPA 8260D	3-8-24	3-8-24	
Chloromethane	ND	1.3	EPA 8260D	3-8-24	3-8-24	
Vinyl Chloride	0.57	0.20	EPA 8260D	3-8-24	3-8-24	
Bromomethane	ND	1.0	EPA 8260D	3-8-24	3-8-24	
Chloroethane	ND	1.0	EPA 8260D	3-8-24	3-8-24	
Trichlorofluoromethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Iodomethane	ND	2.0	EPA 8260D	3-8-24	3-8-24	
Methylene Chloride	ND	1.0	EPA 8260D	3-8-24	3-8-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1-Dichloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
2,2-Dichloropropane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
(cis) 1,2-Dichloroethene	2.4	0.20	EPA 8260D	3-8-24	3-8-24	
Bromochloromethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Chloroform	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Carbon Tetrachloride	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1-Dichloropropene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Trichloroethene	0.21	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dichloropropane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Dibromomethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Bromodichloromethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Tetrachloroethene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,3-Dichloropropane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Dibromochloromethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Chlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Bromoform	ND	1.0	EPA 8260D	3-8-24	3-8-24	

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: March 12, 2024
Samples Submitted: March 6, 2024
Laboratory Reference: 2403-069
Project: 31407569.000

VOLATILE ORGANICS EPA 8260D
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-20-20240306**					
Laboratory ID:	03-069-02					
Bromobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
2-Chlorotoluene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
4-Chlorotoluene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	3-8-24	3-8-24	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Hexachlorobutadiene	ND	1.0	EPA 8260D	3-8-24	3-8-24	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	3-8-24	3-8-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*78*	*75-127*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*95*	*78-125*				

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: March 12, 2024
Samples Submitted: March 6, 2024
Laboratory Reference: 2403-069
Project: 31407569.000

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-13-20240306**					
Laboratory ID:	03-069-03					
Dichlorodifluoromethane	ND	1.0	EPA 8260D	3-8-24	3-8-24	
Chloromethane	ND	1.3	EPA 8260D	3-8-24	3-8-24	
Vinyl Chloride	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Bromomethane	ND	1.0	EPA 8260D	3-8-24	3-8-24	
Chloroethane	ND	1.0	EPA 8260D	3-8-24	3-8-24	
Trichlorofluoromethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Iodomethane	ND	2.0	EPA 8260D	3-8-24	3-8-24	
Methylene Chloride	ND	1.0	EPA 8260D	3-8-24	3-8-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1-Dichloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
2,2-Dichloropropane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
(cis) 1,2-Dichloroethene	1.1	0.20	EPA 8260D	3-8-24	3-8-24	
Bromochloromethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Chloroform	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Carbon Tetrachloride	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1-Dichloropropene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Trichloroethene	2.3	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dichloropropane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Dibromomethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Bromodichloromethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Tetrachloroethene	3.0	0.20	EPA 8260D	3-8-24	3-8-24	
1,3-Dichloropropane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Dibromochloromethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Chlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Bromoform	ND	1.0	EPA 8260D	3-8-24	3-8-24	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-13-20240306**					
Laboratory ID:	03-069-03					
Bromobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
2-Chlorotoluene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
4-Chlorotoluene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	3-8-24	3-8-24	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Hexachlorobutadiene	ND	1.0	EPA 8260D	3-8-24	3-8-24	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	3-8-24	3-8-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*76*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*95*	*78-125*				

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EB-20240306**					
Laboratory ID:	03-069-04					
Dichlorodifluoromethane	ND	1.0	EPA 8260D	3-8-24	3-8-24	
Chloromethane	ND	1.3	EPA 8260D	3-8-24	3-8-24	
Vinyl Chloride	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Bromomethane	ND	1.0	EPA 8260D	3-8-24	3-8-24	
Chloroethane	ND	1.0	EPA 8260D	3-8-24	3-8-24	
Trichlorofluoromethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Iodomethane	ND	2.0	EPA 8260D	3-8-24	3-8-24	
Methylene Chloride	ND	1.0	EPA 8260D	3-8-24	3-8-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1-Dichloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
2,2-Dichloropropane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Bromochloromethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Chloroform	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Carbon Tetrachloride	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1-Dichloropropene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Trichloroethene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dichloropropane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Dibromomethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Bromodichloromethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Tetrachloroethene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,3-Dichloropropane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Dibromochloromethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Chlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Bromoform	ND	1.0	EPA 8260D	3-8-24	3-8-24	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EB-20240306**					
Laboratory ID:	03-069-04					
Bromobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
2-Chlorotoluene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
4-Chlorotoluene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	3-8-24	3-8-24	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Hexachlorobutadiene	ND	1.0	EPA 8260D	3-8-24	3-8-24	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	3-8-24	3-8-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*75*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*94*	*78-125*				

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0308W2					
Dichlorodifluoromethane	ND	1.0	EPA 8260D	3-8-24	3-8-24	
Chloromethane	ND	1.3	EPA 8260D	3-8-24	3-8-24	
Vinyl Chloride	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Bromomethane	ND	1.0	EPA 8260D	3-8-24	3-8-24	
Chloroethane	ND	1.0	EPA 8260D	3-8-24	3-8-24	
Trichlorofluoromethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Iodomethane	ND	2.0	EPA 8260D	3-8-24	3-8-24	
Methylene Chloride	ND	1.0	EPA 8260D	3-8-24	3-8-24	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1-Dichloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
2,2-Dichloropropane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Bromochloromethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Chloroform	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Carbon Tetrachloride	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1-Dichloropropene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dichloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Trichloroethene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dichloropropane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Dibromomethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Bromodichloromethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Tetrachloroethene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,3-Dichloropropane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Dibromochloromethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dibromoethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Chlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Bromoform	ND	1.0	EPA 8260D	3-8-24	3-8-24	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0308W2					
Bromobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	3-8-24	3-8-24	
2-Chlorotoluene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
4-Chlorotoluene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	3-8-24	3-8-24	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	3-8-24	3-8-24	
Hexachlorobutadiene	ND	1.0	EPA 8260D	3-8-24	3-8-24	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	3-8-24	3-8-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				

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Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	03-053-02										
	MS	MSD	MS	MSD		MS	MSD				
Dichlorodifluoromethane	**14.2**	**12.5**	10.0	10.0	ND	142	125	30-140	13	26	I
Chloromethane	**11.3**	**11.6**	10.0	10.0	ND	113	116	60-140	3	20	
Vinyl Chloride	**11.8**	**10.4**	10.0	10.0	ND	118	104	70-130	13	20	
Bromomethane	**14.7**	**16.8**	10.0	10.0	ND	147	168	10-160	13	20	I
Chloroethane	**9.82**	**9.18**	10.0	10.0	ND	98	92	70-130	7	20	
Trichlorofluoromethane	**11.4**	**10.2**	10.0	10.0	ND	114	102	70-130	11	20	
1,1-Dichloroethene	**10.8**	**9.68**	10.0	10.0	ND	108	97	76-124	11	15	
Iodomethane	**15.5**	**14.5**	10.0	10.0	ND	155	145	10-155	7	50	
Methylene Chloride	**11.5**	**10.0**	10.0	10.0	ND	115	100	70-130	14	20	
(trans) 1,2-Dichloroethene	**10.6**	**9.50**	10.0	10.0	ND	106	95	70-130	11	20	
1,1-Dichloroethane	**10.6**	**9.64**	10.0	10.0	ND	106	96	70-130	9	20	
2,2-Dichloropropane	**13.7**	**12.7**	10.0	10.0	ND	137	127	70-140	8	20	
(cis) 1,2-Dichloroethene	**10.8**	**9.59**	10.0	10.0	ND	108	96	70-130	12	20	
Bromochloromethane	**11.1**	**9.99**	10.0	10.0	ND	111	100	70-130	11	20	
Chloroform	**10.5**	**9.40**	10.0	10.0	ND	105	94	70-130	11	20	
1,1,1-Trichloroethane	**10.7**	**9.74**	10.0	10.0	ND	107	97	70-130	9	20	
Carbon Tetrachloride	**10.9**	**9.89**	10.0	10.0	ND	109	99	70-130	10	20	
1,1-Dichloropropene	**10.5**	**9.66**	10.0	10.0	ND	105	97	70-130	8	20	
1,2-Dichloroethane	**10.9**	**9.52**	10.0	10.0	ND	109	95	70-130	14	20	
Trichloroethene	**11.1**	**10.2**	10.0	10.0	ND	111	102	79-129	8	17	
1,2-Dichloropropane	**10.5**	**9.39**	10.0	10.0	ND	105	94	70-130	11	20	
Dibromomethane	**11.5**	**10.2**	10.0	10.0	ND	115	102	70-130	12	20	
Bromodichloromethane	**11.2**	**9.70**	10.0	10.0	ND	112	97	70-130	14	20	
(cis) 1,3-Dichloropropene	**11.1**	**9.57**	10.0	10.0	ND	111	96	70-130	15	20	
(trans) 1,3-Dichloropropene	**11.8**	**10.1**	10.0	10.0	ND	118	101	70-130	16	20	
1,1,2-Trichloroethane	**10.8**	**9.31**	10.0	10.0	ND	108	93	70-130	15	21	
Tetrachloroethene	**11.7**	**10.9**	10.0	10.0	ND	117	109	70-130	7	20	
1,3-Dichloropropane	**10.6**	**11.1**	10.0	10.0	ND	106	111	70-130	5	20	
Dibromochloromethane	**11.8**	**10.1**	10.0	10.0	ND	118	101	70-130	16	20	
1,2-Dibromoethane	**11.8**	**10.3**	10.0	10.0	ND	118	103	70-130	14	20	
Chlorobenzene	**11.4**	**10.2**	10.0	10.0	ND	114	102	78-120	11	16	
1,1,1,2-Tetrachloroethane	**12.0**	**10.5**	10.0	10.0	ND	120	105	70-130	13	20	
Bromoform	**10.5**	**9.03**	10.0	10.0	ND	105	90	70-130	15	20	

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Laboratory Reference: 2403-069
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Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	03-053-02										
	MS	MSD	MS	MSD		MS	MSD				
Bromobenzene	**11.3**	**10.2**	10.0	10.0	ND	113	102	70-130	10	20	
1,1,2,2-Tetrachloroethane	**10.7**	**9.52**	10.0	10.0	ND	107	95	70-130	12	20	
1,2,3-Trichloropropane	**11.6**	**9.73**	10.0	10.0	ND	116	97	70-130	18	20	
2-Chlorotoluene	**11.0**	**10.1**	10.0	10.0	ND	110	101	70-140	9	20	
4-Chlorotoluene	**11.3**	**10.4**	10.0	10.0	ND	113	104	70-140	8	20	
1,3-Dichlorobenzene	**11.2**	**10.1**	10.0	10.0	ND	112	101	70-140	10	20	
1,4-Dichlorobenzene	**11.2**	**10.1**	10.0	10.0	ND	112	101	70-140	10	20	
1,2-Dichlorobenzene	**11.4**	**10.2**	10.0	10.0	ND	114	102	70-140	11	20	
1,2-Dibromo-3-chloropropane	**11.5**	**9.65**	10.0	10.0	ND	115	97	70-140	17	20	
1,2,4-Trichlorobenzene	**12.3**	**11.2**	10.0	10.0	ND	123	112	70-140	9	20	
Hexachlorobutadiene	**12.2**	**11.7**	10.0	10.0	ND	122	117	70-140	4	20	
1,2,3-Trichlorobenzene	**12.2**	**11.3**	10.0	10.0	ND	122	113	60-140	8	28	
Surrogate:											
Dibromofluoromethane						*98*	*95*	*75-127*			
Toluene-d8						*98*	*99*	*80-127*			
4-Bromofluorobenzene						*102*	*102*	*78-125*			

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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

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.

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: WSP USA Inc.
Project Number: 31407569.000
Project Name: Bear Creek GW Sampling
Project Manager: Eric Adams
Sampled by: Autumn Pearson

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

Laboratory Number: 03-069

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					% Moisture
1	MW-10A-20240306	3/6/24	1155	W	3						X																
2	MW-20-20240306	↓	1200	↓	3						X																
3	MW-13-20240306		1240		3						X																
4	EB-20240306		1245		3						X																

	Signature	Company	Date	Time
Relinquished		WSP	3/6/24	1405
Received		OSE	3/6/24	1405
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Analyze in accordance with MSLA between Golder (now WSP) and OnSite Environmental.

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

Table B-1: Sample Collection and Analysis Summary

							Analyses
SDG	**Field Identification**	**Collection Date**	**Location**	**Lab Identification**	**Matrix**	**QC Samples**	**Halogenated Volatiles (EPA 8260C)**
2403-069	MW-10A-20240306	3/6/2024	MW-10A	03-069-01	GW	--	X
2403-069	MW-20-20240306	3/6/2024	MW-10A	03-069-02	GW	FD	X
2403-069	MW-13-20240306	3/6/2024	MW-13	03-069-03	GW	--	X
2403-069	EB-20240306	3/6/2024	--	03-069-04	DI	EB	X

Notes:

All analyses performed by OnSite Environmental, Inc

Abbreviations:

DI - Deionized Water
EB - Equipment Blank
FD - Field Duplicate
GW - Groundwater
QC - Quality Control
SDG - Sample Delivery Group

Table B-2: Qualifer Summary Table

SDG	Sample Name	Constituent	New Result	New RL	Qualifier	Reason
n/a						

Notes:
No Qualifiers Applied

Abbreviations
RL - Reporting Limit
SDG - Sample Delivery Group

Qualifier Definitions
n/a

Table B-3: Field Duplicate Precision

Parameter	MW-10A	MW-20*	RPD1 (%)	QC GoalRPD (%)
PCE	0.2U	0.2U	NA	0 - 20
TCE	0.240	0.210	13.3	0 - 20
VC	0.52	0.57	-9.2	0 - 20
cis-1,2-DCE	2.50	2.40	4.1	0 - 20
1,3-DCB	0.2U	0.2U	NA	0 - 20

Notes:

1. MW-20 duplicate sample
2. RPD (relative percent difference) = [(S-D) * 100] / [(S+D)/2]
   where, S = first / original sample value and, D = second (duplicate) sample value.
3. U - Analyte was analyzed for but was not detected

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