

Table 1: Oct – Dec 2023 – Sites 2/12 GWTP and SVTU Statistics

Monthly Statistics	Volume Treated	Temporal Average Flow	Percent of Time Online	COC Mass Removed (pounds)
Oct 2023 GWTP	5,670,000	127	96.8%	0.22
Nov 2023 GWTP	5,624,640	130	100%	0.22
Dec 2023 GWTP	3,650,690	81.3	99.1%*	0.14
<i>Total since April 1999</i>	<i>2.354 billion gal</i>			<i>498.3</i>
Oct 2023 SVTU	NC	NC	0%	NC
Nov 2023 SVTU	NC	NC	0%	NC
Dec 2023 SVTU	NC	NC	0%	NC
<i>Total since September 2015</i>	<i>1.497 billion scf</i>			<i>10.7</i>

Notes:

gpm: gallon(s) per minute

gal: gallon(s)

COC: chemical of concern

NC: Not calculated

scf: standard cubic foot or feet

scfm: standard cubic feet per minute

*EW-12-05-180M was operational 44.5% of the time in Dec 2023

Remedial Summary

- **8 COCs:** 1,1-DCE; 1,2-DCA; chloroform; cis-1,2-DCE; PCE; total 1,3-DCP; TCE; and VC.
- **Remediation:** Pump and treat with GAC in the unconfined Upper 180-Foot Aquifer since 1999. Extraction wells added in 2007 and 2015.
- **Monitoring:** Quarterly groundwater monitoring and reporting, including annual 3Q monitoring and reports. Described in the most recent Groundwater QAPP.

Oct – Dec 2023 Key Events

- GWTP operating full time since Sep 20
- 4Q23 SGMP event Oct 30 – Nov 3
- Nov 1-2: Decommissioned MW-12-05-180, MW-12-07-180, MW-12-08-180, and MW-12-12-180L
- 4Q23 GWMP event Nov 13-17
- PCE ACL exceedances at EW-12-08-180U and MW-12-20-180U during 4Q23
- Dec 13: Topped off settled grout in previously decommissioned PZ-02-04-180 (17”) and PZ-02-04-180 (11”) in the Fort Ord Dunes State Park
- Dec 18: EW-12-05-180M offline due to pump failure

Future Key Events

- 1Q23 SGMP Jan 29- Feb 2
- 1Q23 GWMP Feb 12-16
- Shea Homes or Monterey Motorsports may decommission EW-12-04-180U, EW-12-04-180M (no date set)
- Shea Homes or The Brass Tap may decommission SG-12-18 (no date set)

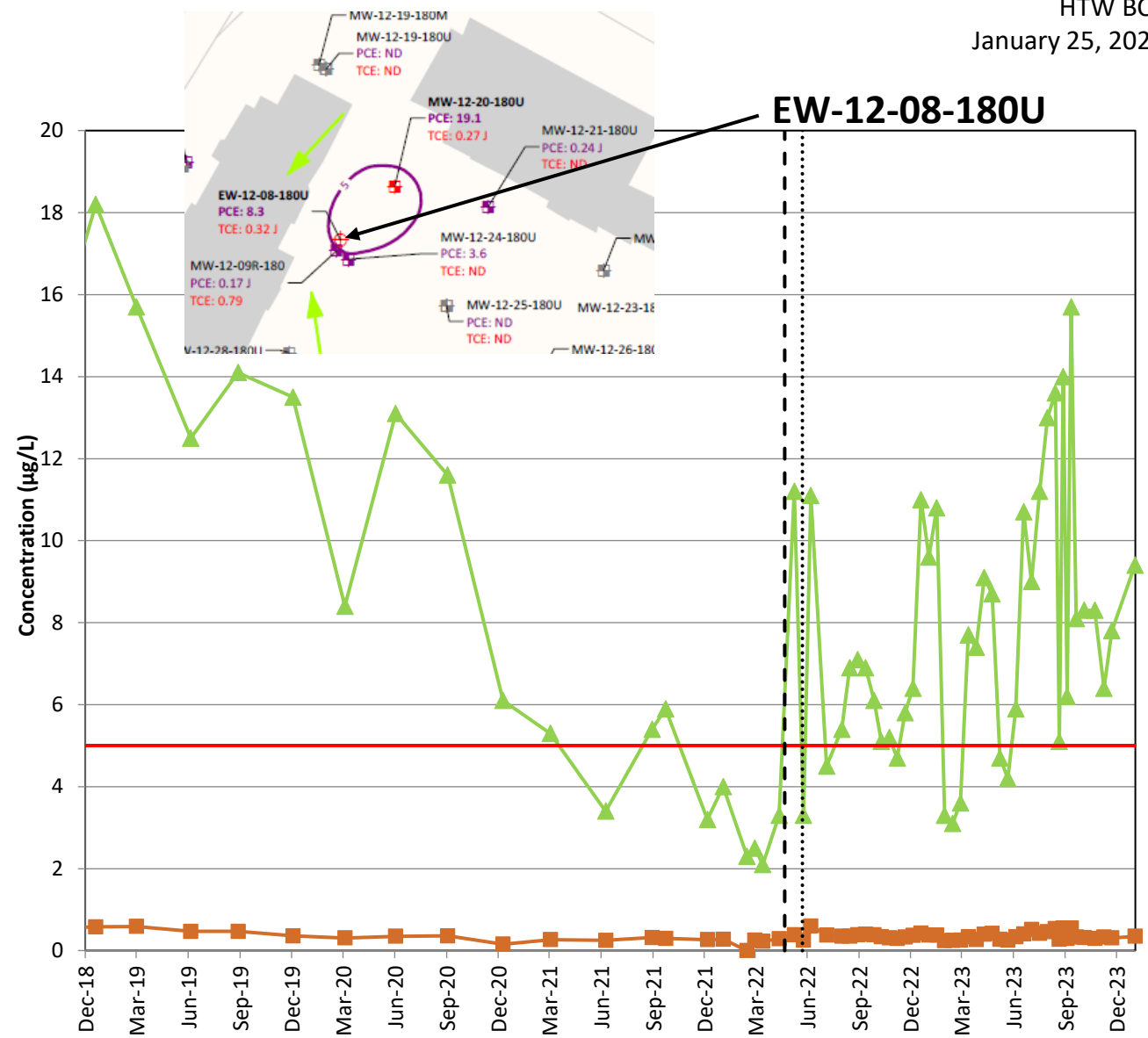
Oct – Dec 2023 Sites 2/12 Treated Water at TS-212-INJ did not exceed discharge limits

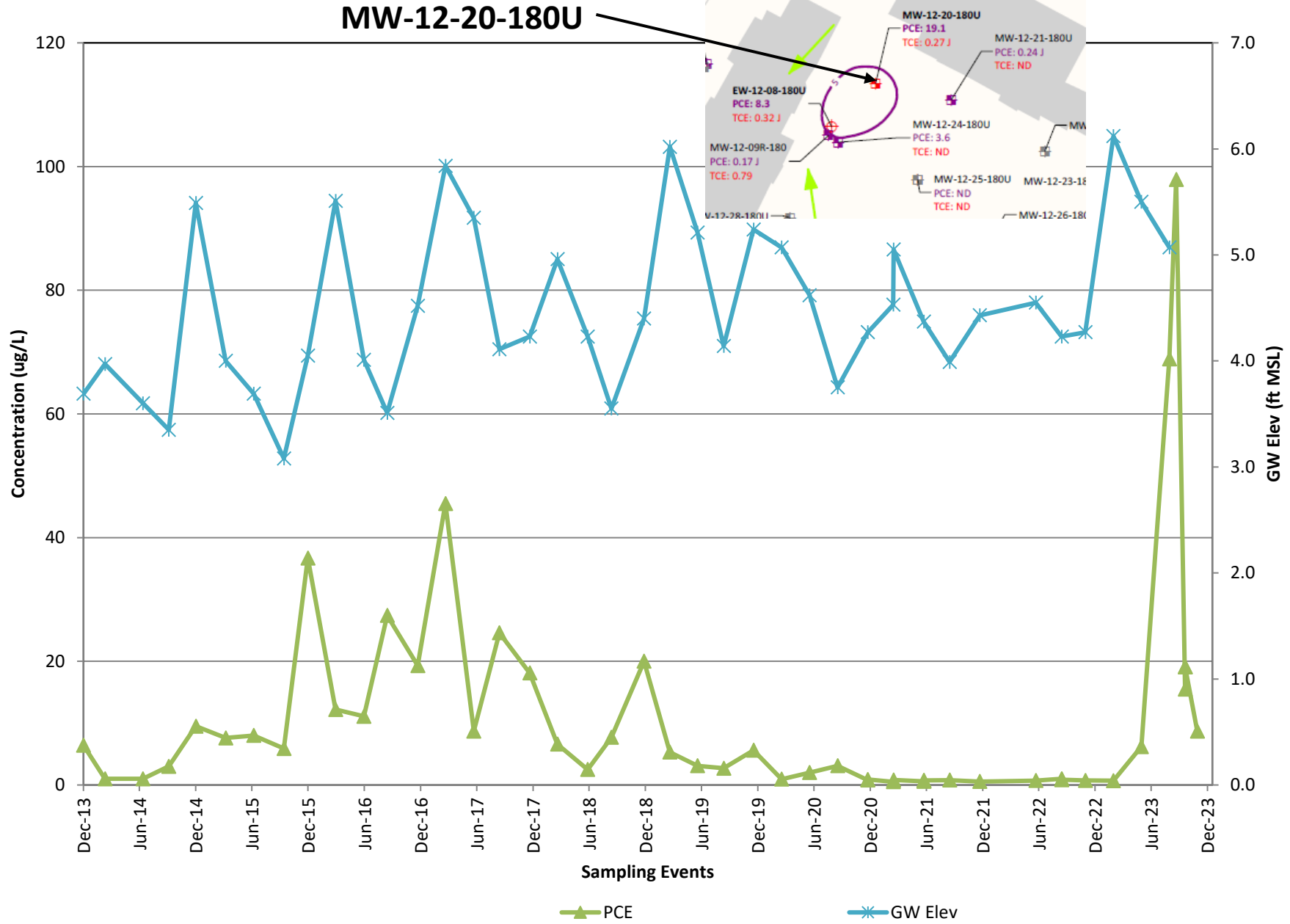


Table 2. Sites 2/12 Groundwater Extraction/Monitoring Well PCE Data

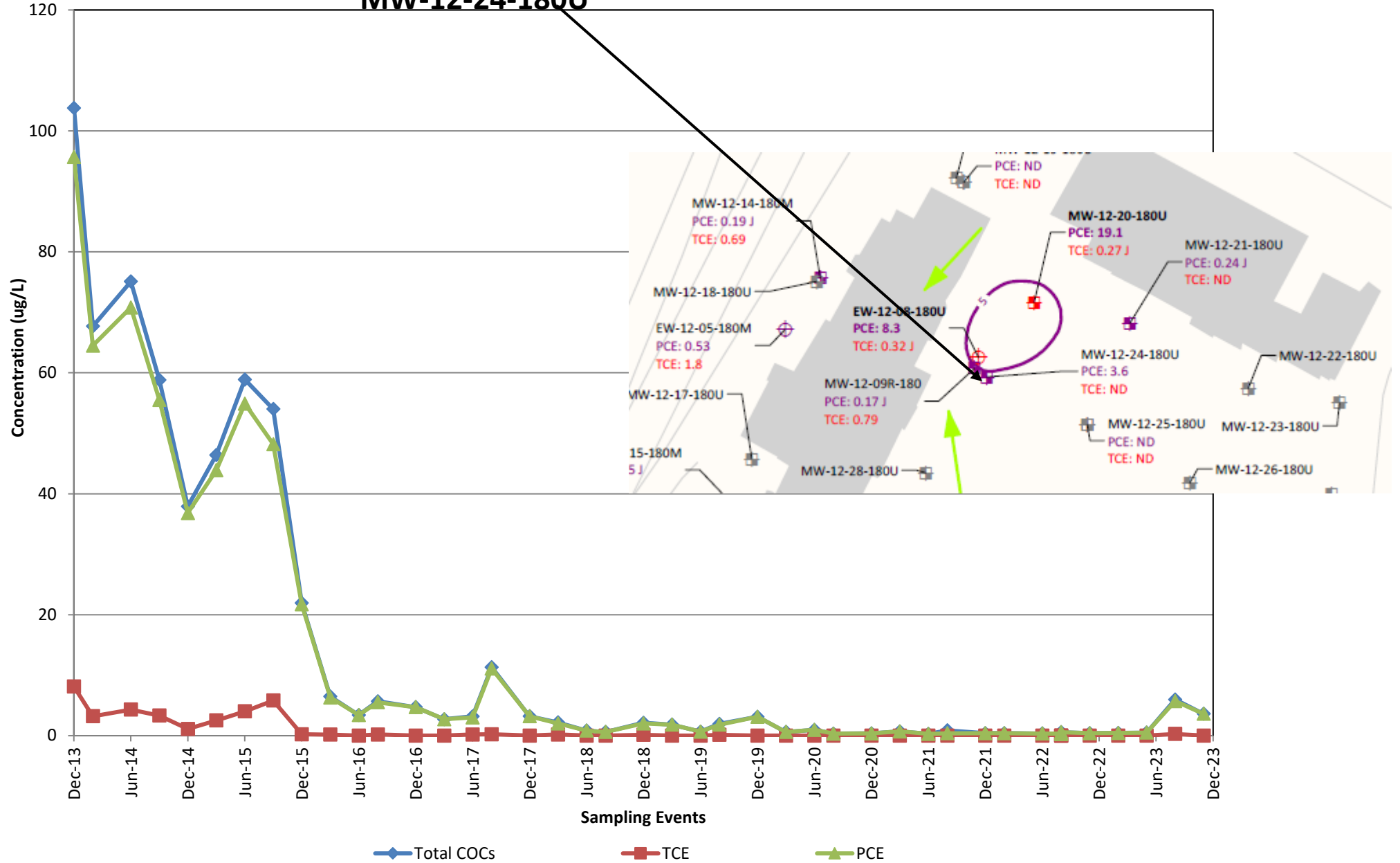
Well Identification ¹	Select COC Concentrations (µg/L) ²							
	2Q2022	3Q2022	4Q2022	1Q2023	2Q2023	3Q2023	4Q2023	1Q2023*
ACL:	PCE 5.0							
EW-12-03-180M	ND (0.25)	0.39 J	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	NS	
EW-12-05-180M	0.67 0.50 0.61	0.56 0.50 0.52	ND (0.25)	0.46 J 0.47 J	0.44 J 0.49 J 0.50 0.47 J	0.52 0.51 0.54 0.56	0.5	0.37 J 0.53
EW-12-07-180M	0.11 J	ND (0.25)	ND (0.25)	ND (0.25)	0.13 J	ND (0.25)	ND (0.25)	
EW-12-08-180U	3.3 J- 11.2 3.3 11.1	4.5 5.4 6.9 7.1 6.9 6.1 J+	5.1 5.2 4.7 5.8 6.4 11	9.6 10.8 3.3 3.1 3.6 7.7 7.4	9.1 8.7 4.7 4.2 J- 5.9 10.7	9.0 11.2 13.0 13.6 5.1† 14.0 6.2† 15.7 8.1	8.3† 8.3† 6.4† 7.8†	9.4†
MW-12-09R-180	0.14 J	0.65	0.16 J	0.12 J	0.14 J	0.12 J	0.17 J	
MW-12-14-180M	0.25 J	0.27 J	0.20 J	0.20 J	0.22 J	0.23 J	0.19 J	
MW-12-16-180M	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	
MW-12-20-180U	0.70 J-	1.0	0.73	0.68	6.2 2.8	68.9 97.9	15.5‡ 19.1‡ 19.1‡ 8.7	
MW-12-21-180U	0.27 J	0.24 J	0.30 J	0.11 J	0.17 J	0.22 J	0.24 J	
MW-12-24-180U	0.34 J	0.56	0.39 J	0.43 J	0.47 J	5.7	3.6	
MW-12-28-180U	NS	0.33 J	NS	NS	NS	0.34 J	NS	
MW-12-30-180U	0.40 J	0.39 J	0.33 J	0.24 J	0.18 J	0.27 J	NS	
MW-12-32-180U	0.35 J	0.37 J	0.34 J	0.28 J	0.18 J	0.33 J	NS	

Notes:
¹ Extraction wells not listed have met the QAPP decision rules to no longer operate.
² Concentration in **bold** and shaded exceeds the Aquifer Cleanup Level (ACL). Concentrations in gray text are ND.
 J: Estimated results below the limit of quantitation (LOQ)
 ND: The analyte was not detected at or above the limit of detection (LOD) NS: No sample (annual well)
 COC: chemical of concern µg/L: micrograms per liter * Preliminary results ‡ Profile of Stations 1-3
 TCE concentrations less than ACL since first quarter 2018 † GWTS online

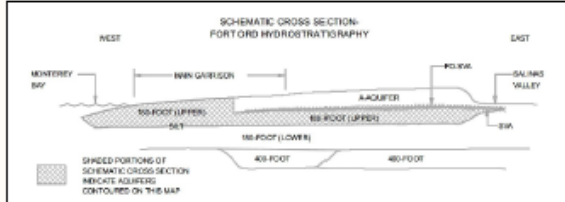




MW-12-24-180U



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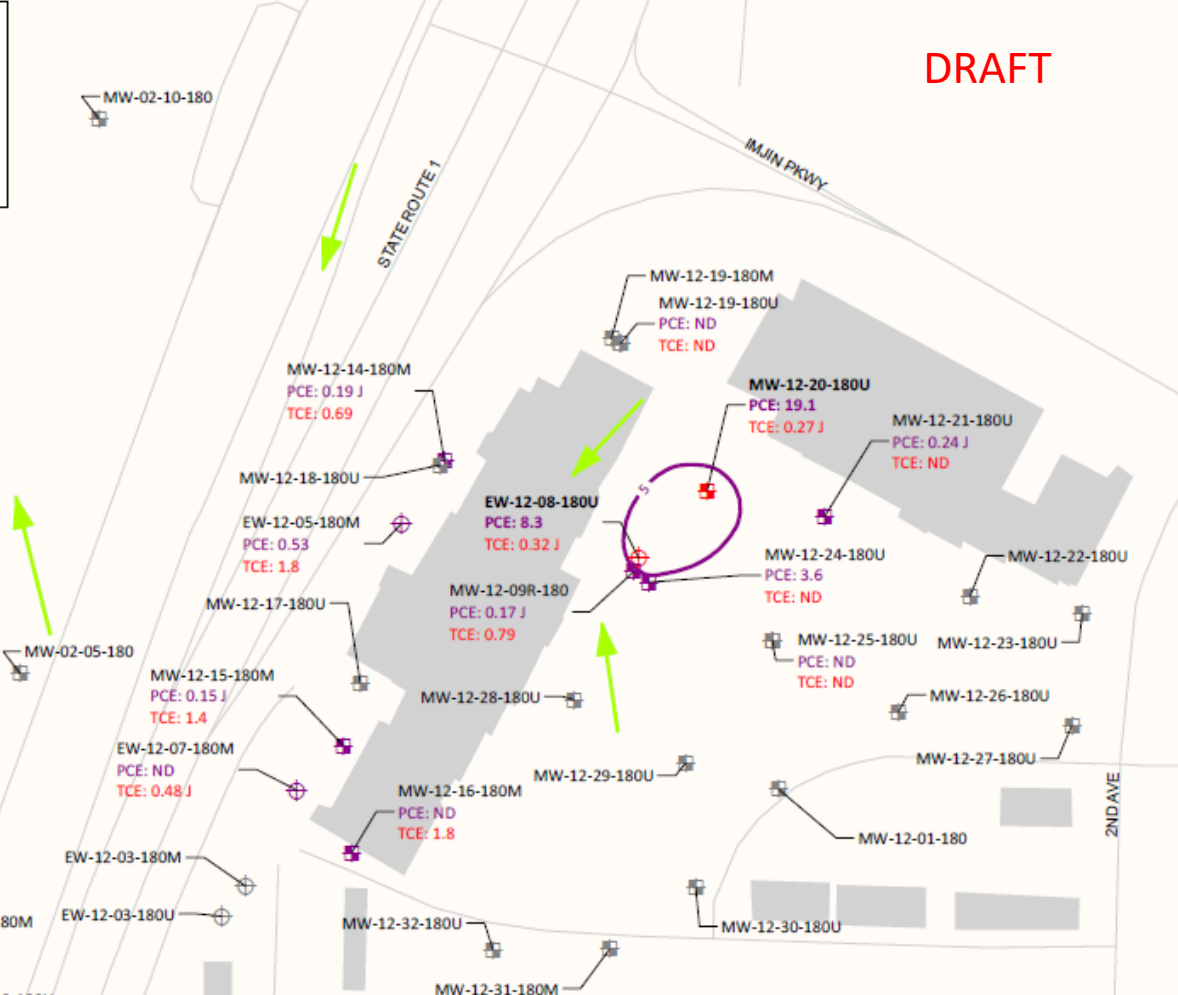
EW-12-05-180M Samples for 4Q2023

DATE	PCE	TCE
10/23/2023	0.5	1.7
11/8/2023	0.37 J	1.5
11/22/2023	0.53	1.7

12/18/2023 Pump failure. Was not repaired

EW-12-08-180U Samples for 3Q2023

DATE	PCE	TCE
10/4/2023	8.3	0.32 J
10/23/2023	8.3	0.3 J
11/8/2023	6.4	0.33 J
11/22/2023	7.8	0.3



EXPLANATION

- Roads
- General groundwater flow direction
- Facilities

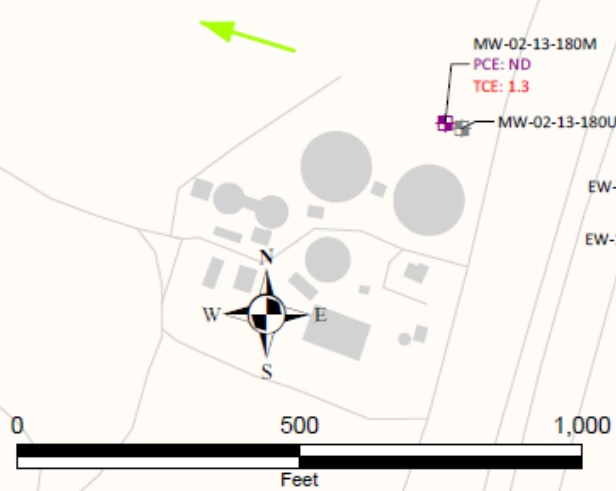
Well Type and Tetrachloroethene (PCE)/ Trichloroethene (TCE) Detection

- Groundwater Extraction Well: PCE detection is above the ACL and TCE is below or equal to the ACL
- Groundwater Extraction Well: PCE and TCE detection are below or equal to the ACL
- Groundwater Extraction Well: Well not sampled
- Groundwater Monitoring Well: PCE detection is above the ACL and TCE is below or equal to the ACL
- Groundwater Monitoring Well: PCE and TCE detection is less than or equal to ACL
- Groundwater Monitoring Well: PCE and TCE detection is non-detect
- Groundwater Monitoring Well: Well not sampled

Chemicals of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L

- 5 Tetrachloroethene (PCE) plume extent
- 5 Trichloroethene (TCE) - (no exceedance contour present in 4Q2023)
- ND Chemical of Concern (COC) is non-detect

Well ID - Sample Location and Probe Depth
 TCE and PCE concentration (µg/L) with validation/lab qualifier.
 Bold when exceeds the ACL.



NOTES:

- Fourth quarter samples were collected between October 1, 2023 and November 22, 2023.
- EW-12-05-180M and EW-12-08-180U were sampled more frequently than quarterly during the reporting period. The highest concentration of COCs detected are presented in the figure, and all results are included in a table.
- EW-12-05-180M pump failed on 12/18/2023.
- MW-12-19-180U and MW-12-25-180U have met the QAAP decision criteria to be removed from the groundwater monitoring program; however, these two wells were sampled to assist in plume delineation.
- Contour is based on one interpretation of the data that was available at the time this report was prepared; other interpretations may be possible.
- Contours based on highest value obtained from multiple bags where applicable.
- PCE and other COC ACL exceedance plumes are illustrated when present.

GROUNDWATER PCE/TCE CONCENTRATIONS
 UPPER 180-FOOT AQUIFER WEST OF THE SVA
 FOURTH QUARTER 2023
 Sites 2 and 12, Fourth Quarter 2023
 Groundwater and Soil Gas Monitoring and Treatment
 System Report, Former Fort Ord, California

SVETS Operation Summary

- Four SVE wells operated in 2Q2023 based on COC exceedance observed in soil gas probes
- SVTU discharge in compliance with Monterey Bay Air Resources District rules (COCs are not detected in the effluent)
- SVETS in operation 33 days before 1Q2023 samples were collected
- Rebound minimal following 2Q2023 sampling event. Restarted SVETS on May 12.
- SVETS shutdown June 21 and baseline sampling conducted June 23 (SG-12-04-10, -20, -and 65)
- Rebound minimal following 3Q2023 and 4Q2023. SVETS remains offline.
- Rebound to be assessed following 1Q2024 sampling event.

Table 3. Sites 2/12 SVETS PCE and TCE Monitoring Results

SVETS ID	PCE			TCE		
	2Q23	3Q23	4Q23	2Q23	3Q23	4Q23
VE-12-02	ND	NS	NS	ND	NS	NS
VE-12-06	51 J	NS	NS	ND	NS	NS
VE-12-08	64 J	NS	NS	ND	NS	NS
VE-12-09	120	NS	NS	ND	NS	NS
SVTU-INF	ND	NS	NS	ND	NS	NS
SVTU-EFF	ND	NS	NS	ND	NS	NS

Notes:

*Preliminary results

J = estimated result below the limit of quantitation (LOQ)

ND = not detected above the limit of detection (LOD)

NS = not sampled

Concentrations in **bold** exceed the SGCL

Concentrations in *italics* exceed the SG-SL

Results reported in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

COC	SGCL ($\mu\text{g}/\text{m}^3$)	SG-SL ($\mu\text{g}/\text{m}^3$)
PCE	1,800	<i>603</i>
TCE	1,000	<i>888</i>

Table 4. Sites 2/12 Soil Gas PCE and TCE Monitoring Results

Soil Gas Probe ID	Schedule	4Q22	1Q23	2Q23	3Q23	4Q23
		PCE				
SG-12-01-65	Q	460	NS	350	340	390
SG-12-02-10	Q ¹	<i>1,100</i>	580	<i>700</i>	<i>680</i>	<i>950</i>
SG-12-02-20	A	NS	NS	NS	500	NS
SG-12-02-30	A	NS	NS	NS	470	NS
SG-12-02-40	A	NS	NS	NS	450	NS
SG-12-02-50	A	NS	NS	NS	450	NS
SG-12-02-57	A	NS	NS	NS	430	NS
SG-12-02-65	R	NS	NS	NS	NS	NS
SG-12-04-10	Q ³	480	ND	140 99	99	230
SG-12-04-20	Q ³	440	44 J	110 98	140	230
SG-12-04-40	Q ³	410	68	110	120	180
SG-12-04-50	Q ³	380	69 J	130	130	190
SG-12-04-58	Q ³	320	110	100	87	120
SG-12-04-65	Q ³	400	93	130 97	140	230
SG-12-06-10	Q ¹	340	ND	100	85	150
SG-12-06-70	Q ²	420	ND	150	120	230
SG-12-07-65	Q	<i>660</i>	ND	420	180	190
SG-12-17-60	Q	ND	ND	ND	ND	ND
SG-12-20-10	A	NS	NS	NS	410	NS
SG-12-20-20	A	NS	NS	NS	220	NS
SG-12-20-70	Q	NS	NS	120	68	120

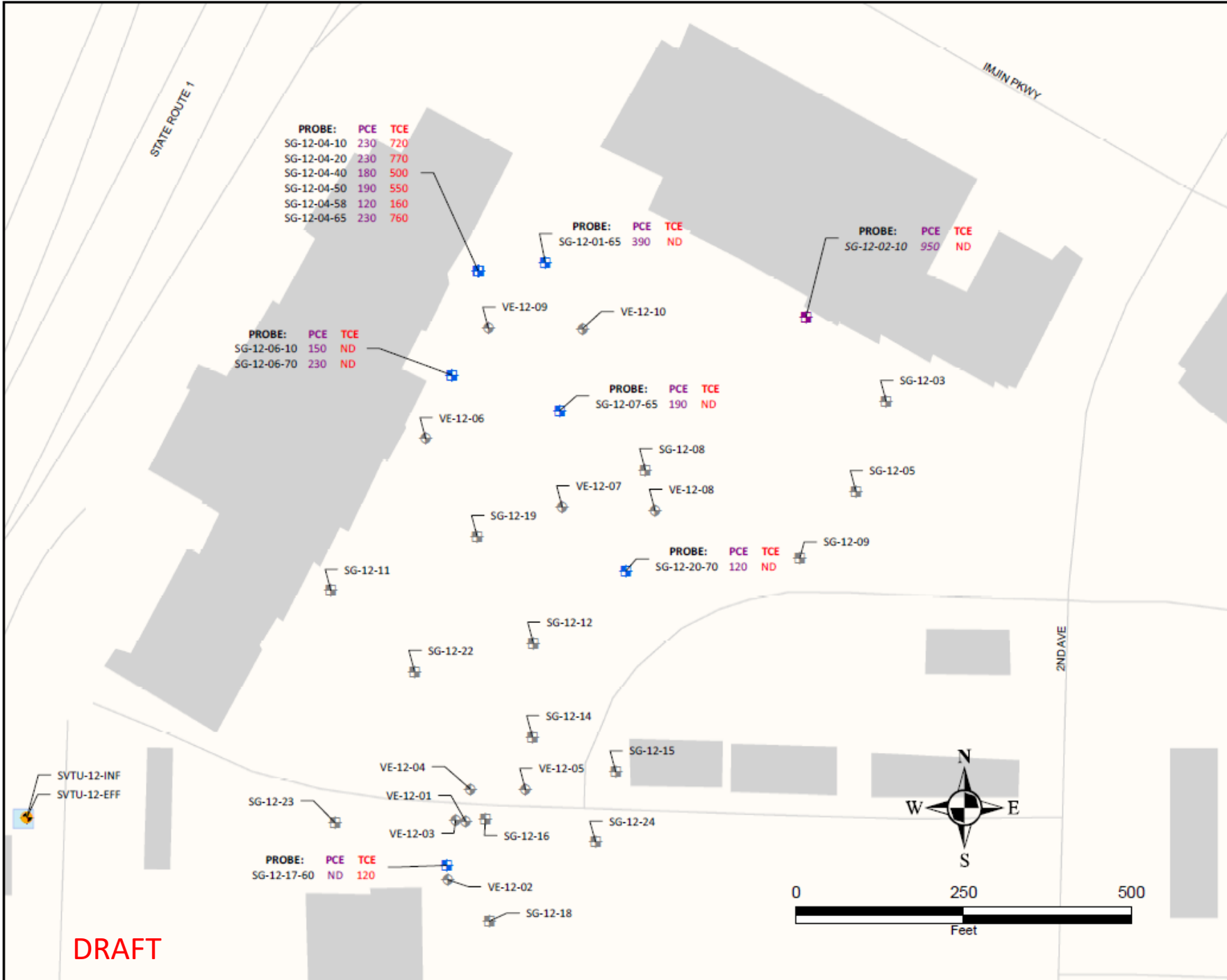
4Q22	1Q23	2Q23	3Q23	4Q23
TCE				
ND	NS	ND	22	ND
ND	ND	ND	ND	ND
NS	NS	NS	3.4	NS
NS	NS	NS	ND	NS
NS	NS	NS	ND	NS
NS	NS	NS	ND	NS
NS	NS	NS	ND	NS
NS	NS	NS	NS	NS
2,500	59	360 170	170	720
2,200	130	300 170	280	770
1,900	150	220	230	500
2,000	170	300	260	550
1,400	160	120	67	160
1,900	290	290 170	300	760
ND	ND	ND	1.2	ND
ND	ND	ND	6.4	ND
39 J	ND	ND	9.9	ND
610	ND	70	62	120
NS	NS	NS	ND	NS
NS	NS	NS	1.5	NS
NS	NS	ND	1.4	ND

Last Exceedance			
PCE		TCE	
SG-SL	SGCL	SG-SL	SGCL
2Q15	4Q13	--	--
3Q23	3Q15	--	--
3Q22	4Q13	--	--
3Q22	--	--	--
3Q22	--	--	--
3Q22	--	--	--
3Q22	--	--	--
3Q18	--	--	--
2Q15	--	4Q19	4Q22
3Q15	--	--	4Q22
1Q15	--	--	4Q22
1Q15	--	3Q21	4Q22
1Q15	--	2Q22	4Q22
1Q15	--	2Q21	4Q22
3Q15	--	--	--
1Q17	--	--	--
4Q22	3Q15	--	--
--	--	--	4Q15
3Q22	3Q15	--	--
3Q22	2Q15	--	--
3Q15	2Q15	--	--

Notes:
 *Preliminary results
 -- = Never
 A = Annual
 J = estimated result below the limit of quantitation (LOQ)
 INV = investigation (adjacent probe above SGCL/SG-SL)
 ND = not detected above the limit of detection (LOD)
 NS = not sampled
 Q = Quarterly
 R = Removed
 Concentrations in **bold** exceed the SGCL
 Concentrations in *italics* exceed the SG-SL
 Results reported in micrograms per cubic meter (µg/m³)
¹ Quarterly probe due to proximity of store front in an area of historical soil gas concentrations above the SGCL.
² Will continue to sample probe quarterly if it is within the vicinity of the current groundwater plume above the ACL (probe adjacent to deepest probe will be sampled in lieu if deepest probe is in saturated zone).
³ Quarterly probe due to concentration above SGCL.

	SGCL (µg/m³)	SG-SL (µg/m³)
PCE	1,800	<i>603</i>
TCE	1,000	<i>888</i>





EXPLANATION

- Roads
 - Facilities
 - Soil Vapor Treatment Unit
- Well Type and COC Concentration**
- Soil Gas Probe Cluster: Tetrachloroethene (PCE) and trichloroethene (TCE) is below or equal to SG-SL
 - Soil Gas Probe Cluster: PCE is above SG-SL but below SGCL and TCE is below or equal to SG-SL
 - ⊕ Soil Vapor Treatment Unit (SVTU) Influent
 - ⊙ SVTU Effluent
 - ⊖ Soil Gas Probe Cluster: Probe not sampled
 - ⊖ Soil Vapor Extraction Well: Well not sampled

ND Chemical of Concern (COC) is non-detect

Well ID - Sample Location and Probe Depth
 TCE and PCE concentration (µg/L) with validation/lab qualifier.
Italics when exceeds the SG-SL
Bold when exceeds the SGCL.

NOTES:
 (1) Samples were collected between October 30, 2023 and November 1, 2023 while the SVETS was not in operation.
 (2) SGCL refers to Soil Gas Cleanup Level
 (3) SG-SL refers to Soil Gas Screening Level

SOIL GAS PCE/TCE CONCENTRATIONS AND SGCL EXCEEDANCES
 FOURTH QUARTER 2023
 Sites 2 and 12, Fourth Quarter 2023 Groundwater and Soil Gas Monitoring and Treatment System Report, Former Fort Ord, California

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