

# Sites 2 and 12 Data and Status

**Table 1:** Sep-Nov 2022 – Sites 2/12 GWTP and SVTU Statistics

Monthly Statistics	Volume Treated	Temporal Average Flow	Percent of Time Online	COC Mass Removed (pounds)
Sept 2022 GWTP	3,090,560 gal	71.5 gpm	49	0.11
Oct 2022 GWTP	2,751,840 gal	77.5 gpm	53	0.11
Nov 2022 GWTP	3,090,560 gal	94.3 gpm	47	TBD
Total since April 1999	2.298 billion gal			496
Sept 2022 SVTU	0 scf	0 scfm	0	0
Oct 2022 SVTU	0 scf	0 scfm	0	0
Nov 2022 SVTU	0 scf	0 scfm	0	0
Total since September 2015	1.374 billion scf			9.9

## Sep-Nov and Future 2022 Key Events

- Aug 29 – Sep 2: Third Quarter 2022 Groundwater sampling event.
- Sep 26-30: Supplemental soil gas sampling at SG-12-01-65, SG-12-02-10, and SG-12-04-10
- Oct 19: SVTU GAC vessel replacement
- Oct 31-Nov 2: Fourth Quarter 2022 soil gas monitoring event
- Nov 14-18: Fourth Quarter 2022 groundwater sampling event
- Samples currently collected biweekly from EW-12-08-180U
- Samples currently collected monthly from EW-12-05-180M
- SVTU VFD replacement
- Shea Homes or Monterey Motorsports will decommission EW-12-04-180U, EW-12-04-180M, and MW-12-05-180 (no date set)
- Shea Homes or The Brass Tap will decommission SG-12-18 (no date set)

**Table 2:** Sep-Nov 2022 – Sites 2/12 Treated Water Analytical Results at TS-212-INJ

COC	Discharge Limit (µg/L) <sup>2</sup>	Sample Date / Analytical Results		
		9/27/2022	10/24/2022	11/21/2022*
1,1-Dichloroethene (1,1-DCE)	6	ND (0.25)	ND (0.25)	ND (0.25)
1,2-Dichloroethane (1,2-DCA)	0.5	ND (0.25)	0.11 J	0.10 J
1,3-dichloropropene (1,3-DCP) <sup>1</sup>	0.5	ND (0.25)	ND (0.25)	ND (0.25)
Chloroform	2	0.26 J	0.29 J	0.29
cis-1,2-dichloroethene (cis-1,2-DCE)	6	0.68	0.85	0.91
Tetrachloroethene (PCE)	5	ND (0.25)	ND (0.25)	ND (0.25)
Trichloroethene (TCE)	5	ND (0.25)	ND (0.25)	0.10 J
Vinyl Chloride (VC)	0.1	ND (0.1)	ND (0.1)	ND (0.1)

### Notes:

\*Preliminary results

<sup>1</sup>The reported value is the sum of both cis- and trans-isomers.

<sup>2</sup> Discharge limits are the ACLs for injection over the plume.

J: Estimated results below the limit of quantitation (LOQ).

ND: The analyte was not detected at or above the limit of detection (LOD).

gpm: gallon(s) per minute

gal: gallon(s)

COC: chemical of concern

NC: Not calculated

NS: Not sampled

scf: standard cubic foot or feet

TBD: to be determined (sample results not available at this time)



**Table 3.** Sites 2/12 Groundwater Extraction/Monitoring Well Data TCE

Well Identification <sup>1</sup>	Select COC Concentrations (µg/L) <sup>2</sup>													
	3Q 2019	4Q 2019	1Q 2020	2Q 2020	3Q 2020	4Q 2020	1Q 2021	2Q 2021	3Q 2021	4Q 2021	1Q 2022	2Q 2022	3Q 2022	4Q 2022*
ACL:	TCE 5.0													
EW-12-03-180M	1.7	1.3	2.1	0.62	2.4	2.3	0.14 J	0.7	0.6	0.26 J	0.12 J	0.26 J	ND (0.25)	ND (0.25)
EW-12-05-180M	1.9	2.1	0.6	2.1	1.9	2.4	2	2.3	2.1	1.9	1.9	2.9 2.0 2.6	2.3 2.0 2.1	0.60
EW-12-07-180M	1.1	0.81	0.78	0.63	0.54	0.59	0.56 J+	0.45 J	0.45 J	0.43 J	0.43 J	0.57 J+	0.57	ND (0.25) <sup>^</sup>
EW-12-08-180U	0.47 J	0.36 J	0.31 J	0.35 J	0.36 J	0.16 J	0.27 J	0.25 J	0.32 J 0.30 J	0.27 J	0.28 J ND (0.25) 0.26 J 0.23 J	0.29 J 0.39 J 0.26 J 0.60	0.38 J 0.35 J 0.35 J 0.39 J 0.40 J 0.39 J	0.34 J 0.31 J 0.30 J 0.33 J
MW-12-09R-180	1.9	1.7	2.3	1.4	1.2	1.6	1.7	1.4	1.3 J+	1.5	1.4	0.84	ND (0.25)	1.0
MW-12-14-180M	2.4	1.5	1.6	1.9	2.1	1.2	1.4 J+	1.4	1.7	1.1	1.1	1.4	1.3	1.2
MW-12-16-180M	1.2	1.5	1.8	1.8	1.7	2.0	2.6	2.1	2.1	2.4	1.8	1.7	1.8	2.1
MW-12-20-180U	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.066)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	0.10 J	ND (0.25)
MW-12-21-180U	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.066)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	0.11 J	ND (0.25)
MW-12-24-180U	0.13 J	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.066)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
MW-12-28-180U	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.066)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	NS	ND (0.25)	NS
MW-12-30-180U	ND (0.25)	ND (0.25)	ND (0.25)	0.13 J	ND (0.25)	0.16 J	0.21 J	0.18 J	0.19 J	0.17 J	0.17 J	0.13 J	ND (0.25)	ND (0.25)
MW-12-32-180U	0.42 J	0.54	0.84	0.57	0.64	0.7	0.55	0.62	0.71	0.46 J	0.44 J	0.35 J	0.38 J	0.35 J

**Notes:**

<sup>1</sup> Extraction wells not listed have met the QAPP decision rules to no longer operate.

<sup>2</sup> 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)

COC: chemical of concern

µg/L: micrograms per liter

\* Preliminary results

<sup>^</sup> Reported data indicated an error in sample labeling occurred and the results were corrected



**Table 4.** Sites 2/12 Groundwater Extraction/Monitoring Well Data PCE

Well Identification <sup>1</sup>	Select COC Concentrations (µg/L) <sup>2</sup>													
	3Q 2019	4Q 2019	1Q 2020	2Q 2020	3Q 2020	4Q 2020	1Q 2021	2Q 2021	3Q 2021	4Q 2021	1Q 2022	2Q 2022	3Q 2022	4Q 2022*
<b>ACL:</b>	<b>PCE</b>													
	<b>5.0</b>													
EW-12-03-180M	ND (0.25)	0.25 J	ND (0.25)	ND (0.25)	0.18 J	0.16 J	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	0.39 J	ND (0.25)
EW-12-05-180M	0.71	0.66	0.68	0.95	0.65	0.79	0.71	0.73	0.61	0.47 J	0.48 J	0.67	0.56	ND (0.25)
EW-12-07-180M	0.28 J	0.27 J	0.24 J	0.19 J	0.12 J	0.14 J	0.16 J	0.12 J	0.10 J	ND (0.25)	ND (0.25)	0.11 J	ND (0.25)	ND (0.25)^
EW-12-08-180U	<b>14.1</b>	<b>13.5</b>	<b>8.4</b>	<b>13.1</b>	<b>11.6</b>	<b>6.1</b>	<b>5.3 J+</b>	3.4	<b>5.4</b> <b>5.9</b>	3.2	4.0 2.3 2.5 2.1	<b>3.3 J-</b> <b>11.2</b> 3.3 <b>11.1</b>	4.5 <b>5.4</b> <b>6.9</b> <b>7.1</b> <b>6.9</b> <b>6.1 J+</b>	<b>5.1</b> <b>5.2</b> 4.7 <b>5.8</b>
MW-12-09R-180	0.28 J	0.29 J	0.34 J	0.30 J	0.21 J	0.26 J	0.27 J	0.21 J	0.20 J	0.21 J	0.20 J	0.14 J	0.65	0.16 J
MW-12-14-180M	0.28 J	0.34 J	0.31 J	0.43 J	0.36 J	0.32 J	0.34 J	0.31 J	0.34 J	0.28 J	0.20 J	0.25 J	0.27 J	0.20 J
MW-12-16-180M	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	0.089 J	0.11 J	ND (0.25)	ND (0.25)	0.11 J	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
MW-12-20-180U	2.7	<b>5.6</b>	0.94	2.0	3.1	0.87	0.81	0.75	0.79	0.55	0.51	0.70 J-	1.0	0.71
MW-12-21-180U	0.28 J	0.38 J	0.35 J	0.23 J	0.41 J	0.38 J	0.38 J	0.36 J	0.35 J	0.28 J	0.29 J	0.27 J	0.24 J	0.30 J
MW-12-24-180U	1.8	3.1	0.6	0.94	0.33 J	0.36 J	0.68	0.29 J	0.37 J	0.40 J	0.40 J	0.34 J	0.56	0.39 J
MW-12-28-180U	0.33 J	0.31 J	0.52	0.42 J	0.39 J	0.36 J	0.29 J	0.32 J	0.26 J	0.25 J	0.19 J	NS	0.33 J	NS
MW-12-30-180U	0.36 J	0.41 J	0.46 J	0.63	0.56	0.63	0.62	0.48 J	0.39 J	0.46 J	0.40 J	0.40 J	0.39 J	0.33 J
MW-12-32-180U	0.41 J	0.54	0.71	0.48 J	0.64	0.73	0.50	0.52	0.63	0.47 J	0.38 J	0.35 J	0.37 J	0.34 J

**Notes:**

<sup>1</sup> Extraction wells not listed have met the QAPP decision rules to no longer operate.

<sup>2</sup> 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)

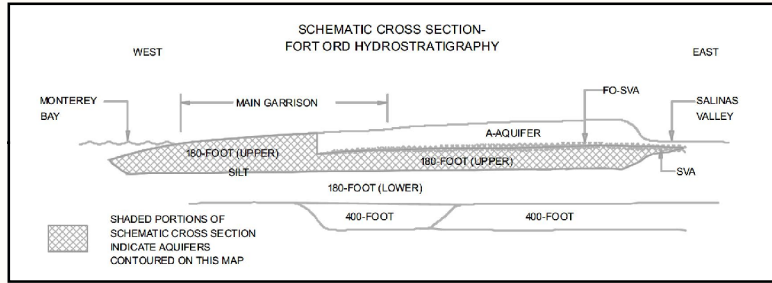
COC: chemical of concern

µg/L: micrograms per liter

\* Preliminary results

^ Reported data indicated an error in sample labeling occurred and the results were corrected



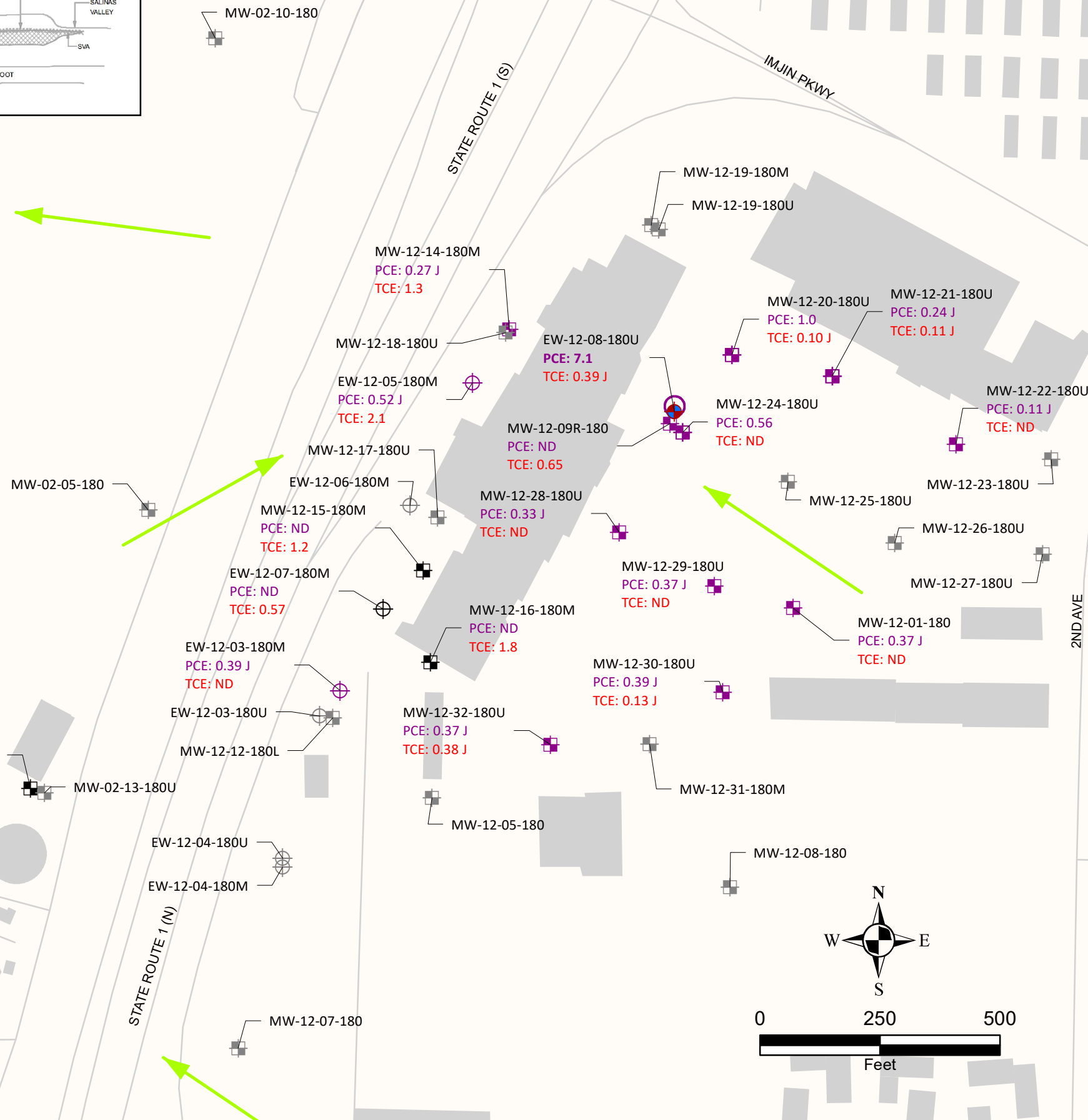


**EW-12-05-180M Samples for 3Q2022**

DATE	PCE	TCE
7/5/2022	0.56	2.3
8/1/2022	0.50	2.0
8/29/2022	0.52	2.1

**EW-12-08-180U Samples for 2Q2022**

DATE	PCE	TCE
7/5/2022	4.5	0.38 J
8/1/2022	<b>5.4</b>	0.38 J
8/15/2022	<b>6.9</b>	0.35 J
8/29/2022	<b>7.1</b>	0.39 J
9/12/2022	<b>6.9</b>	0.40 J
9/27/2022	<b>6.1</b>	0.39 J



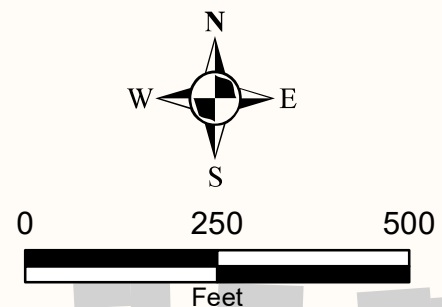
### EXPLANATION

- Roads
- ➔ General groundwater flow direction
- ▭ Facilities
- Chemicals of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L**
- Tetrachloroethene (PCE)
- Well Type and PCE Detection**
- ⊗ Site 12 Groundwater Extraction Well: PCE detection is above the ACL
- ⊕ Site 12 Groundwater Extraction Well: PCE detection is less than or equal to ACL
- ⊙ Site 12 Groundwater Extraction Well: PCE is non-detect
- ⊖ Site 12 Groundwater Extraction Well: Well not sampled
- ⊗ Site 12 Groundwater Monitoring Well: PCE detection less than or equal to ACL
- ⊕ Site 12 Groundwater Monitoring Well: PCE detection is non-detect
- ⊖ Site 12 Groundwater Monitoring Well: Well not sampled
- ND Chemical of Concern (COC) is non-detect
- Well ID - Sample Location and Probe Depth
- EW-12-08-180U TCE and PCE concentration (µg/L) with validation/lab qualifier.
- PCE: **7.1** Bold when exceeds the ACL.
- TCE: **0.39 J**

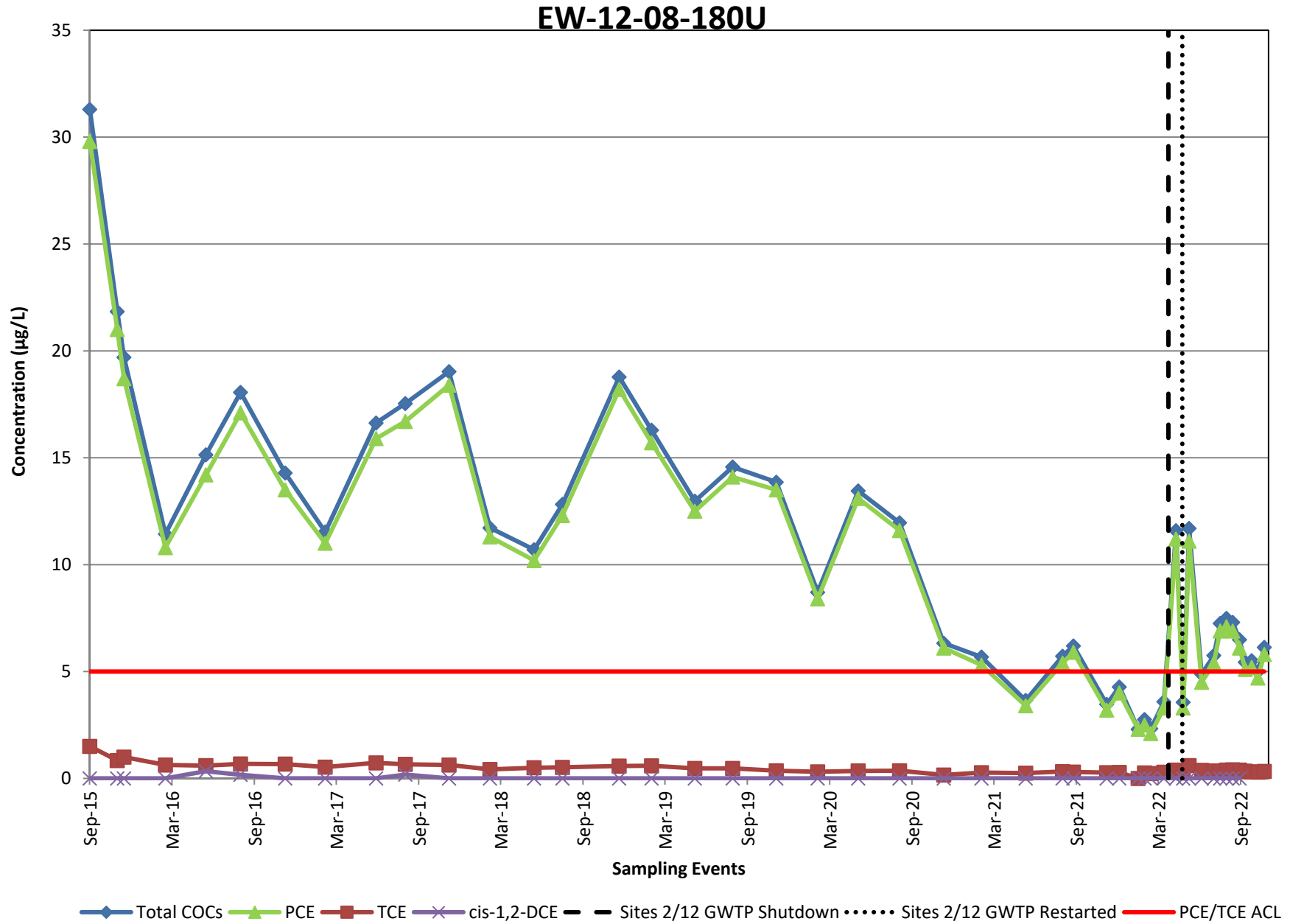
**NOTES:**

- Third quarter samples were collected between July 1, 2022 and September 30, 2022.
- EW-12-08-180U and EW-12-05-180M were sampled more frequently than quarterly during the reporting period. The highest concentrations of COCs detected are presented in the figure, and all results are included in a table.
- 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.

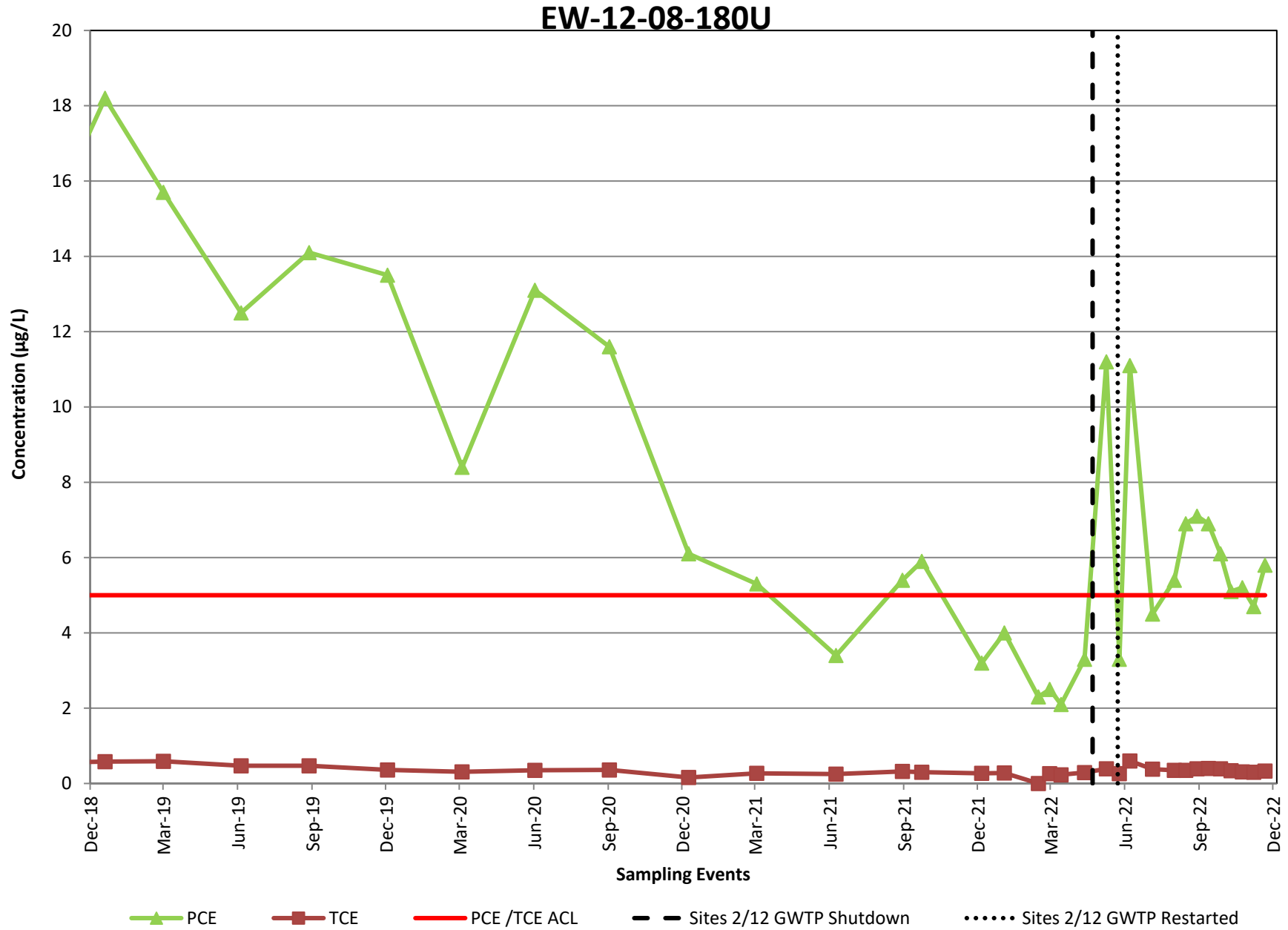
GROUNDWATER PCE/TCE CONCENTRATIONS  
UPPER 180-FOOT AQUIFER WEST OF THE SVA  
THIRD QUARTER 2022  
Sites 2 and 12, Fourth Quarter 2021 - Third Quarter 2022  
Groundwater and Soil Gas Monitoring and Treatment  
System Report, Former Fort Ord, California



Full data set



Recent  
data set



**Table 5. Sites 2/12 Soil Gas PCE Monitoring Results**

Soil Gas Probe ID	1Q20	2Q20	3Q20	4Q20	1Q21	2Q21	3Q21	4Q21	1Q22	2Q22	3Q22	4Q22*	Schedule
	PCE												
SG-12-01-65	210	ND	330	270	220	280	380	NS	NS	NS	550^	460	Q <sup>3</sup>
SG-12-02-10	790	970	1,200	1,200	540	770	1,100	880	630	920	1,200^	1,100	Q <sup>1</sup>
SG-12-02-20	NS	NS	940	NS	NS	NS	800	NS	NS	NS	760	NS	A
SG-12-02-30	NS	NS	760	NS	NS	NS	730	NS	NS	NS	750	NS	A
SG-12-02-40	NS	NS	830	NS	NS	NS	720	NS	NS	NS	760	NS	A
SG-12-02-50	NS	NS	820	NS	NS	NS	720	NS	NS	NS	650	NS	A
SG-12-02-57	NS	NS	760	NS	NS	NS	290	NS	NS	NS	790	NS	A
SG-12-02-65	NS	NS	600	NS	NS	NS	NS	NS	NS	NS	NS	NS	R
SG-12-04-10	120	ND	100	120	100	150	280	290	220	350	400^	480	Q <sup>3</sup>
SG-12-04-20	110	ND	100	130	99	150	260	260	210	320	380	440	Q <sup>3</sup>
SG-12-04-40	92	ND	83 J	87	89	NS	120	180	190	260	390	410	Q <sup>3</sup>
SG-12-04-50	92	52 J	85	110	100	120	210	200	210	260	330	380	Q <sup>3</sup>
SG-12-04-58	110	ND	81 J	120	NS	NS	NS	68 J	190	230	300	320	Q <sup>3</sup>
SG-12-04-65	97	ND	88	130	100	140	220	210	180	320	500	400	Q <sup>3</sup>
SG-12-06-10	120	ND	110	180	100	140	230	150	200	260	290	340	Q <sup>1</sup>
SG-12-06-70	160	NS	160	210	180	190	260	270	290	310	330	420	Q <sup>2</sup>
SG-12-07-65	380	NS	170	260	NS	NS	NS	NS	NS	670	750	660	INV
SG-12-17-60	ND	NS	ND	ND	NS	NS	NS	NS	NS	ND	ND	ND	INV
SG-12-20-10	NS	NS	1,200	NS	NS	NS	1,100	NS	NS	NS	1,400	NS	A
SG-12-20-20	NS	NS	900	NS	NS	NS	770	NS	NS	NS	1,000	NS	A
SG-12-20-70	320	NS	300	380	NS	NS	NS	NS	NS	410	440	NS	R

**Notes:**

- \*Preliminary results
- ^ Follow-up sample result
- 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/m<sup>3</sup>)
- <sup>1</sup> Quarterly probe due to proximity of store front in an area of historic soil gas concentrations above the SGCL.
- <sup>2</sup> 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).
- <sup>3</sup> Quarterly probe due to concentration above SGCL.

	SGCL (µg/m <sup>3</sup> )	SG-SL (µg/m <sup>3</sup> )
PCE	<b>1,800</b>	603
TCE	<b>1,000</b>	888

**Table 6.** Sites 2/12 Soil Gas TCE Monitoring Results

Soil Gas Probe ID	1Q20	2Q20	3Q20	4Q20	1Q21	2Q21	3Q21	4Q21	1Q22	2Q22	3Q22	4Q22*	Schedule
	TCE												
SG-12-01-65	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	38 J <sup>1</sup>	ND	Q <sup>3</sup>
SG-12-02-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND <sup>1</sup>	ND	Q <sup>1</sup>
SG-12-02-20	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	A
SG-12-02-30	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	A
SG-12-02-40	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	A
SG-12-02-50	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	A
SG-12-02-57	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	A
SG-12-02-65	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	R
SG-12-04-10	<b>1,300</b>	ND	360	620	780	<b>1,400</b>	<b>2,000</b>	<b>1,900</b>	<b>1,700</b>	<b>2,400</b>	<b>2,400<sup>1</sup></b>	<b>2,500</b>	Q <sup>3</sup>
SG-12-04-20	<b>1,100</b>	52 J	350	510	770	<b>1,300</b>	<b>1,900</b>	<b>1,900</b>	<b>1,600</b>	<b>2,000</b>	<b>2,300</b>	<b>2,200</b>	Q <sup>3</sup>
SG-12-04-40	90	ND	ND	56 J	88	NS	220	780	780	<b>1,400</b>	<b>2,500</b>	<b>1,900</b>	Q <sup>3</sup>
SG-12-04-50	630	140	180	230	530	720	<i>1,000</i>	<b>1,300</b>	<b>1,200</b>	<b>1,400</b>	<b>2,000</b>	<b>2,000</b>	Q <sup>3</sup>
SG-12-04-58	440	46 J	170	250	NS	NS	NS	540	<i>910</i>	<i>1,000</i>	<b>1,500</b>	<b>1,400</b>	Q <sup>3</sup>
SG-12-04-65	<i>890</i>	150	220	440	560	<i>1,000</i>	<b>1,500</b>	<b>1,500</b>	<b>1,200</b>	<b>2,200</b>	<b>3,000</b>	<b>1,900</b>	Q <sup>3</sup>
SG-12-06-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Q <sup>1</sup>
SG-12-06-70	ND	NS	ND	ND	ND	ND	ND	140	ND	ND	ND	ND	Q <sup>2</sup>
SG-12-07-65	51 J	NS	ND	ND	NS	NS	NS	NS	NS	42 J	51 J	38 J	INV
SG-12-17-60	740	NS	670	760	NS	NS	NS	NS	NS	620	830	610	INV
SG-12-20-10	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	A
SG-12-20-20	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	A
SG-12-20-70	ND	NS	ND	100	NS	NS	NS	NS	NS	ND	ND	NS	R

**Notes:**

\*Preliminary results

<sup>1</sup> Follow-up sample result

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/m<sup>3</sup>)

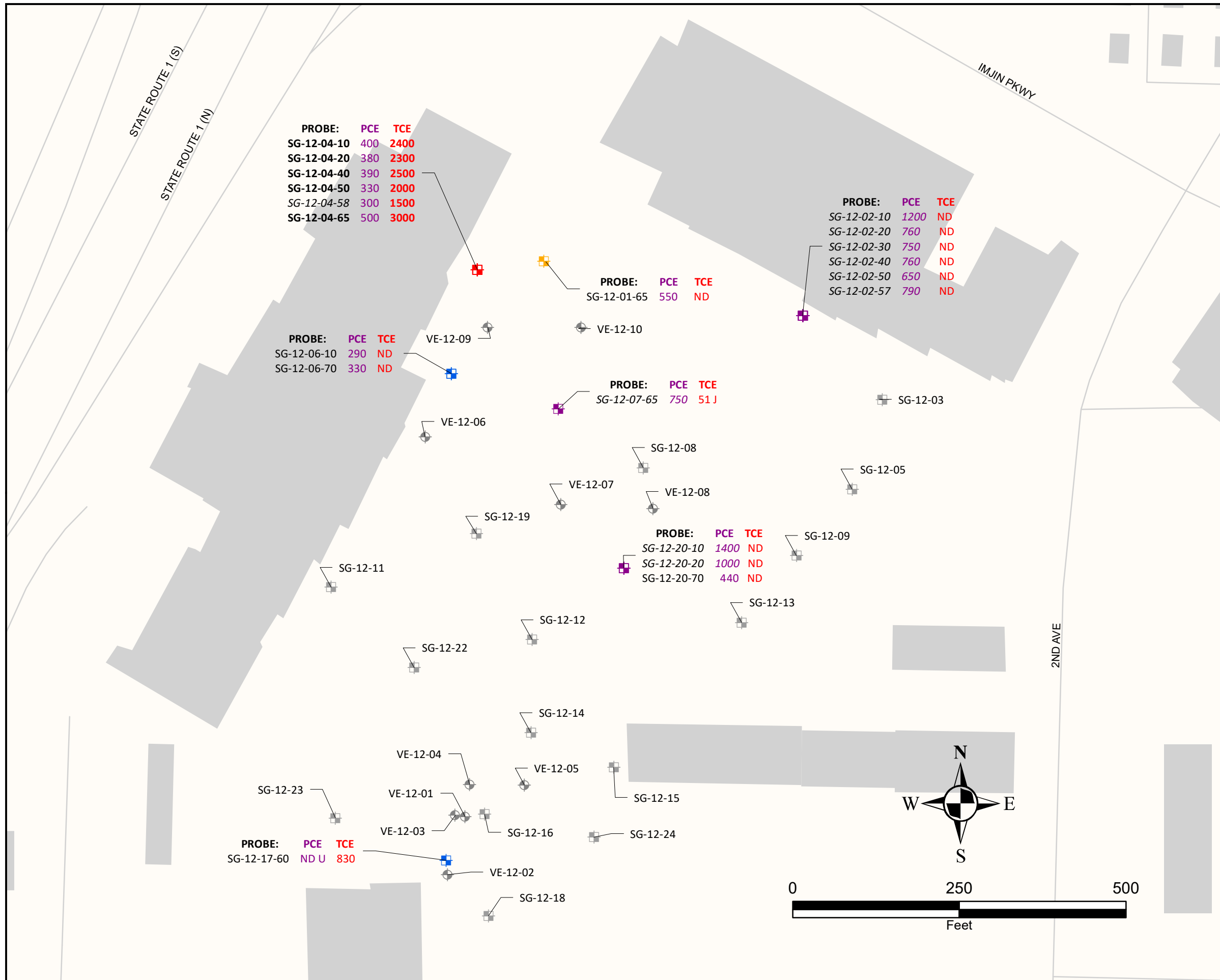
<sup>1</sup> Quarterly probe due to proximity of store front in an area of historic soil gas concentrations above the SGCL.

<sup>2</sup> 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).

<sup>3</sup> Quarterly probe due to concentration above SGCL.

	SGCL (µg/m <sup>3</sup> )	SG-SL (µg/m <sup>3</sup> )
PCE	<b>1,800</b>	603
TCE	<b>1,000</b>	888





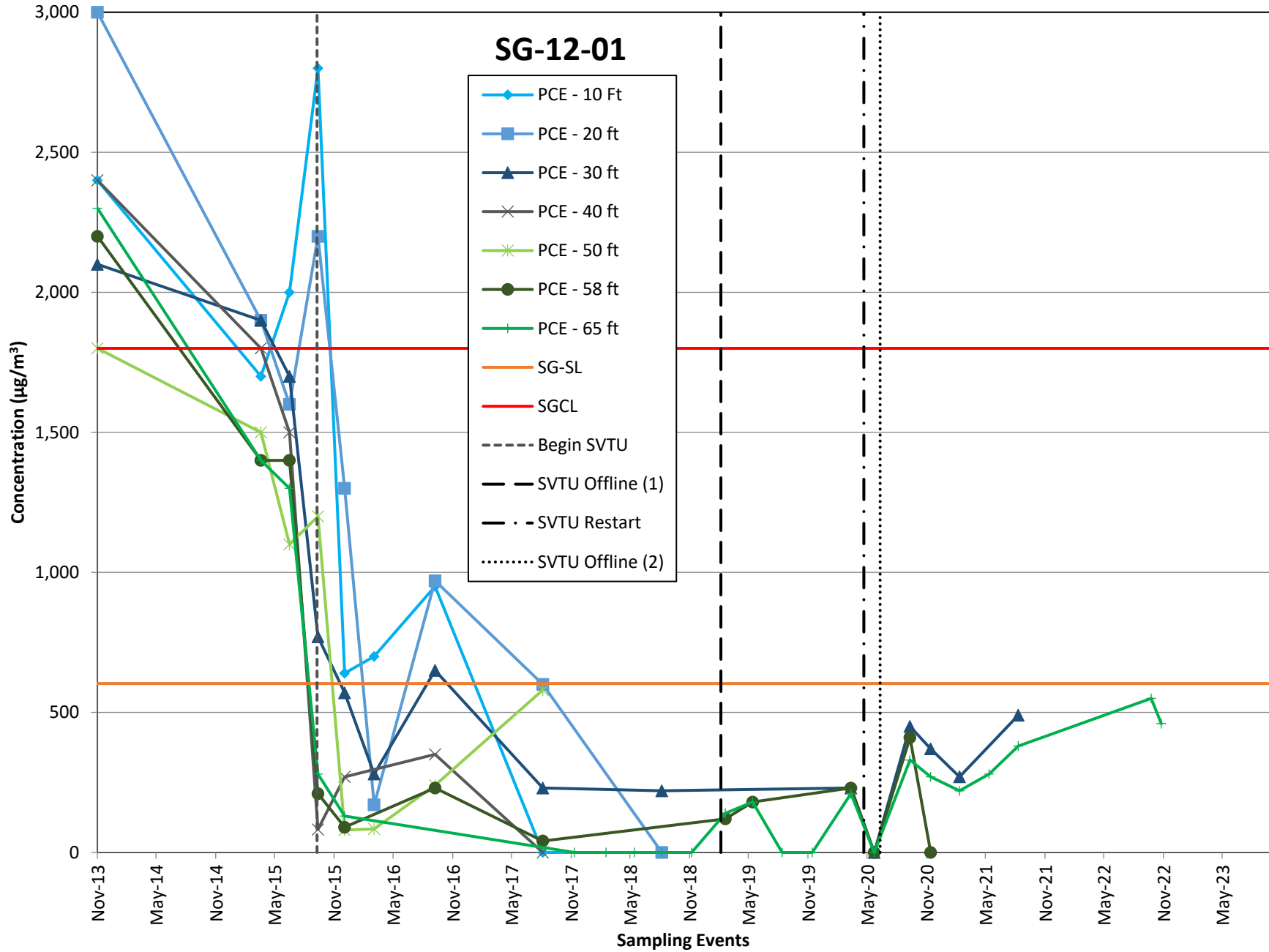
### EXPLANATION

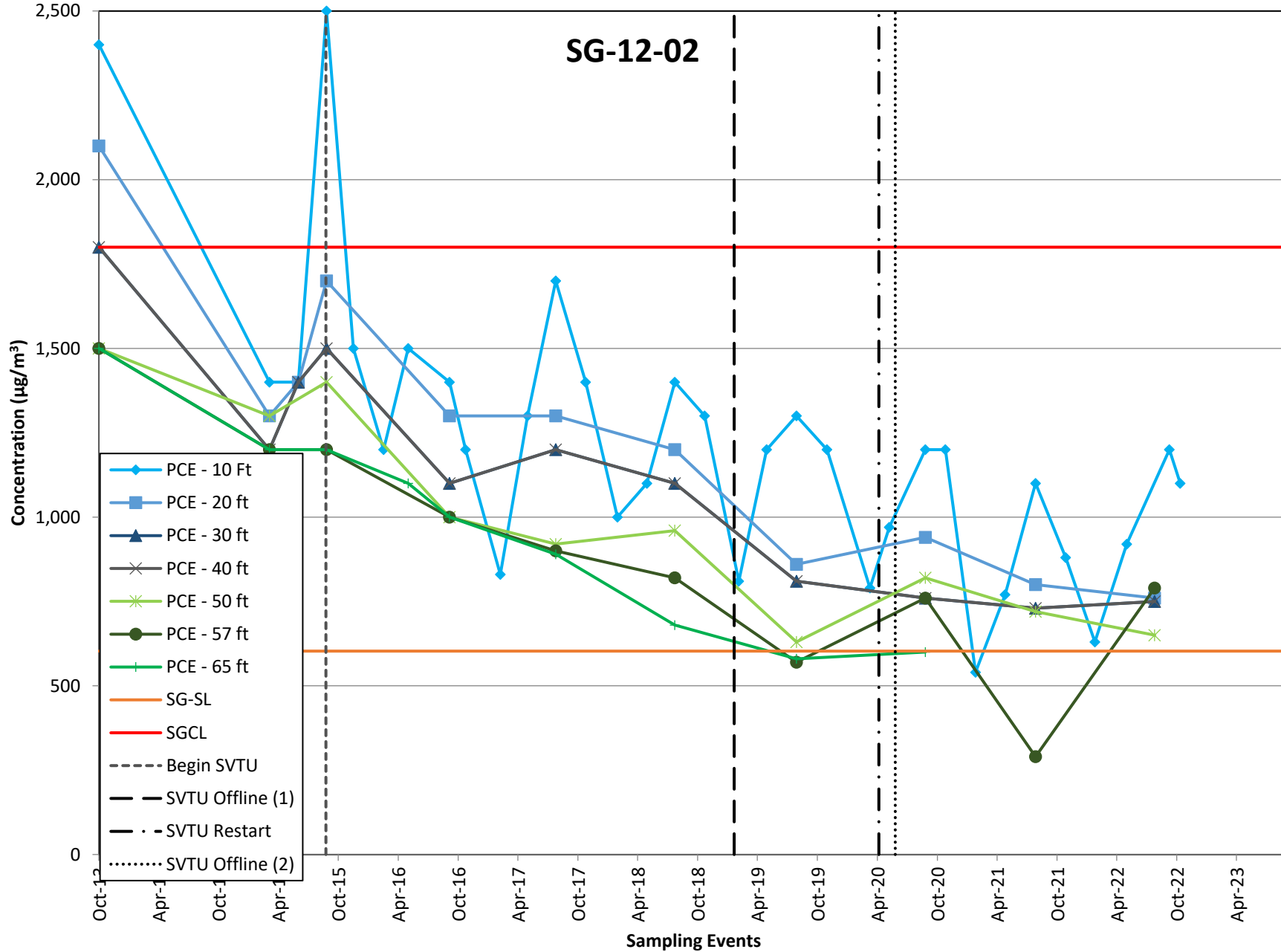
- Roads
- Facilities
- Site 12 Soil Gas Probe Cluster: Tetrachloroethene (PCE) and trichloroethene (TCE) is below or equal to SG-SL
- Site 12 Soil Gas Probe Cluster: PCE is above SGCL and TCE is below or equal to SG-SL
- Site 12 Soil Gas Probe Cluster: PCE is above SG-SL but below SGCL and TCE is below or equal to SG-SL
- Site 12 Soil Gas Probe Cluster: PCE is below or equal to the SG-SL and TCE is above SGCL
- Site 12 Soil Gas Probe Cluster: Probe not sampled
- Site 12 Soil Vapor Extraction Well: Extraction well not sampled
- ND Chemical of Concern (COC) is non-detect

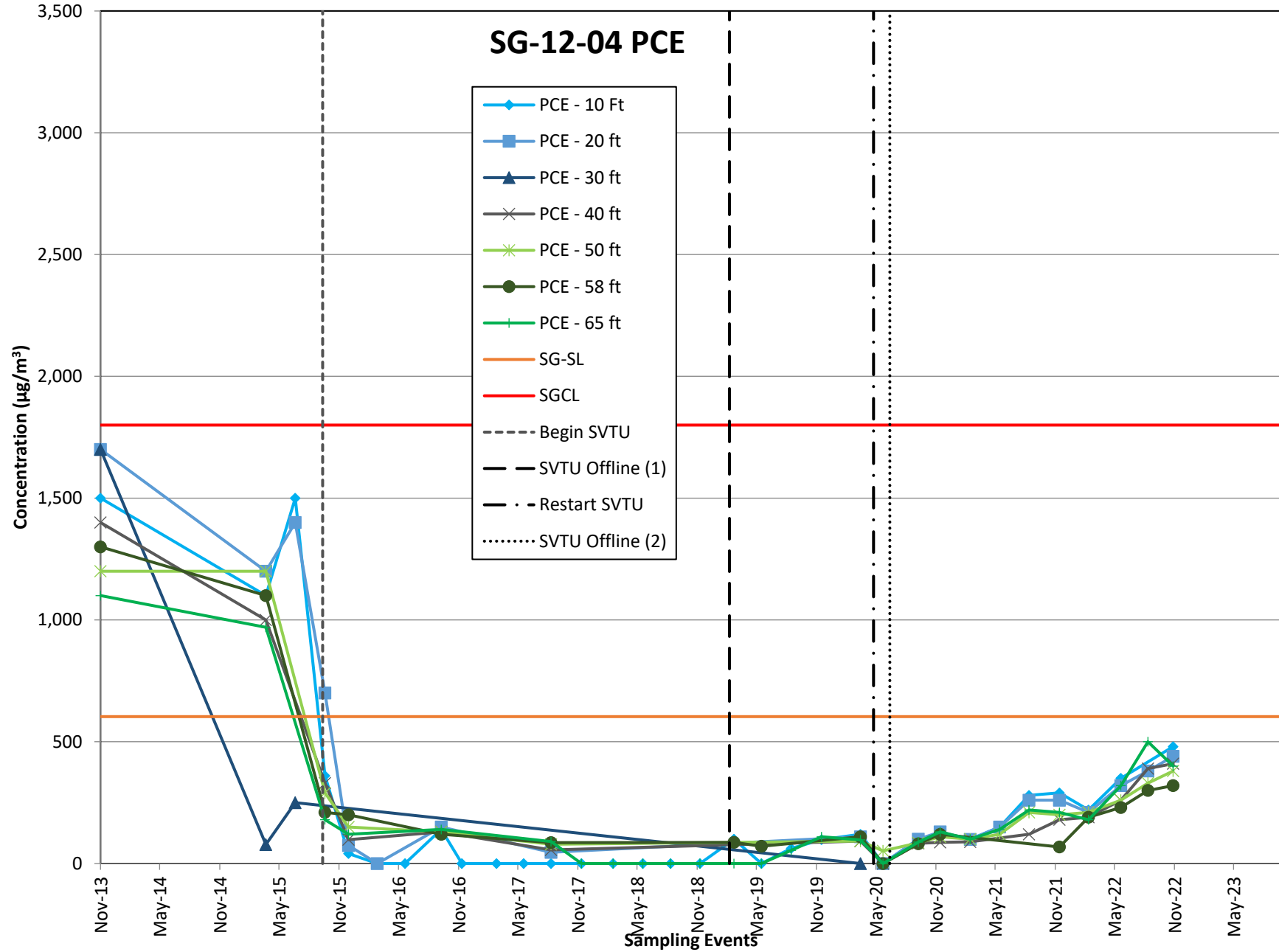
Well ID - Sample Location and Probe Depth  
 TCE and PCE concentration (µg/L) with validation/lab qualifier.  
 Italics when exceeds the SG-SL  
 Bold when exceeds the SGCL.

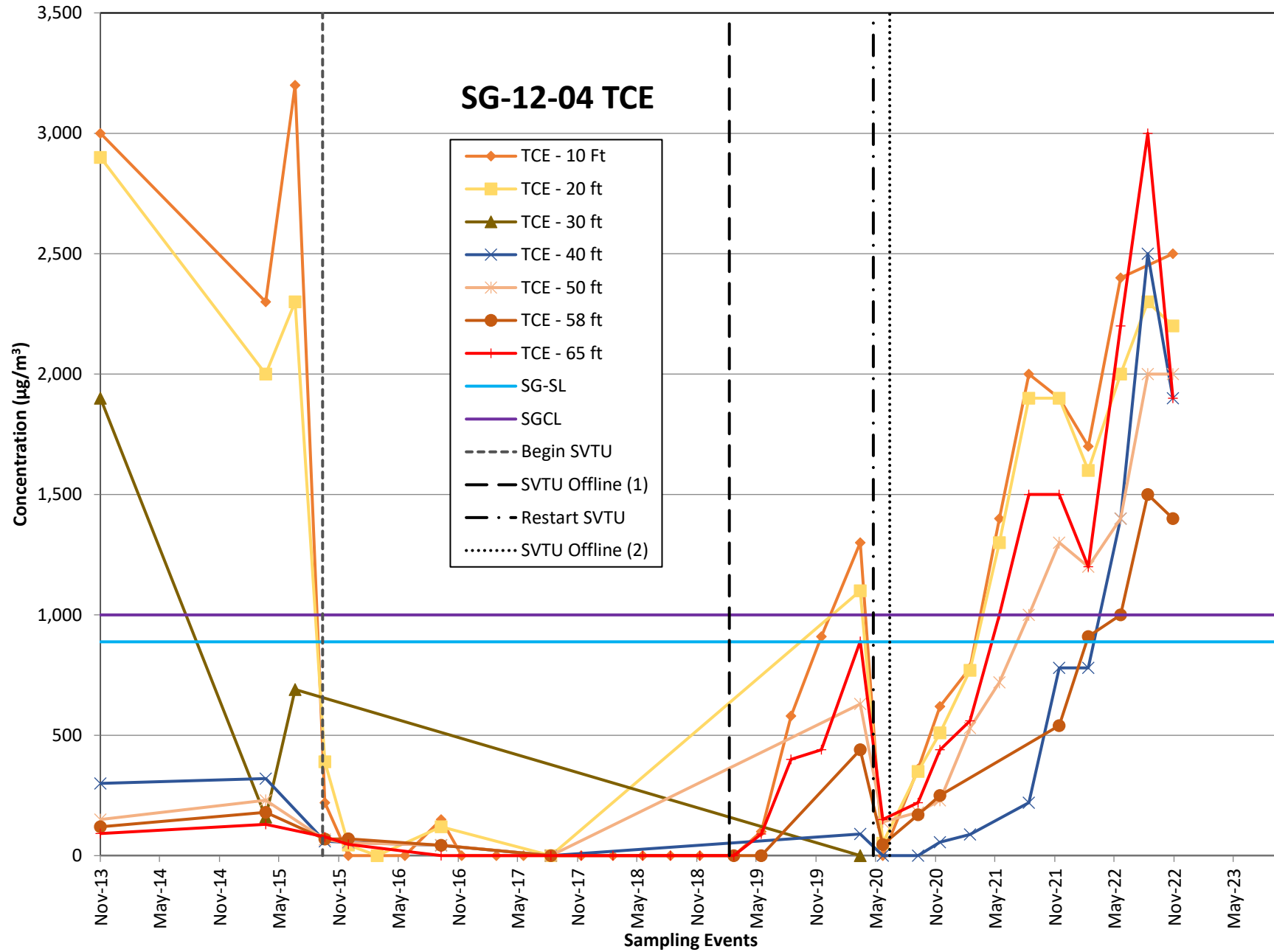
- NOTES:**
- (1) Samples were collected between August 15, 2022 and August 30, 2022.
  - (2) Initial sampling for wells SG-12-01-65, SG-12-02-10, and SG-12-04-10 showed anomalies and was resampled on September 30, 2022 for verification. The new values are consistent with previous samples.
  - (3) SGCL refers to Soil Gas Cleanup Level
  - (4) SG-SL refers to Soil Gas Screening Level

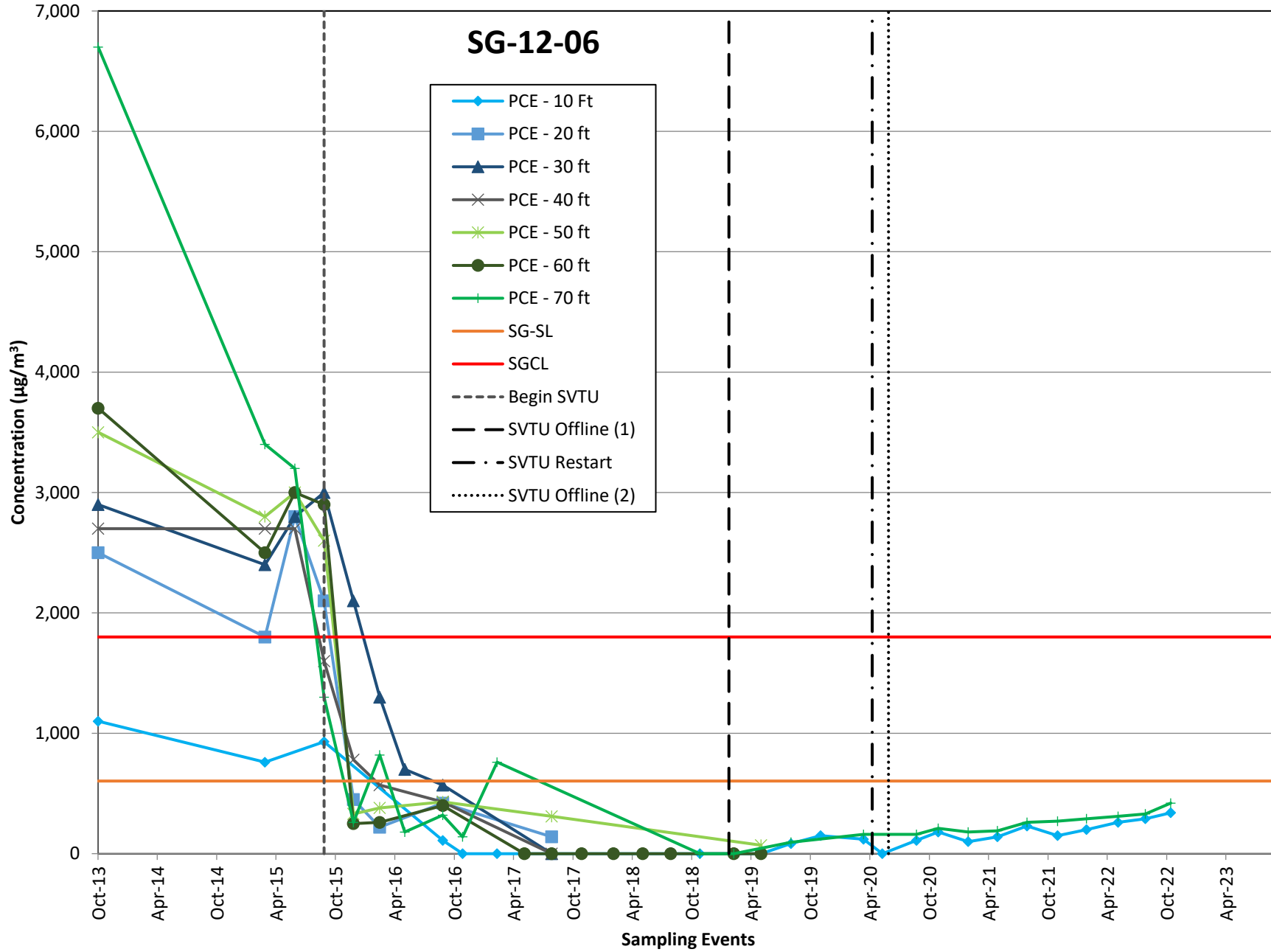
SOIL GAS PCE/TCE CONCENTRATIONS AND SGCL EXCEEDANCES  
 THIRD QUARTER 2022  
 Sites 2 and 12, Fourth Quarter 2021 - Third Quarter 2022  
 Groundwater and Soil Gas Monitoring and Treatment System Report, Former Fort Ord, California

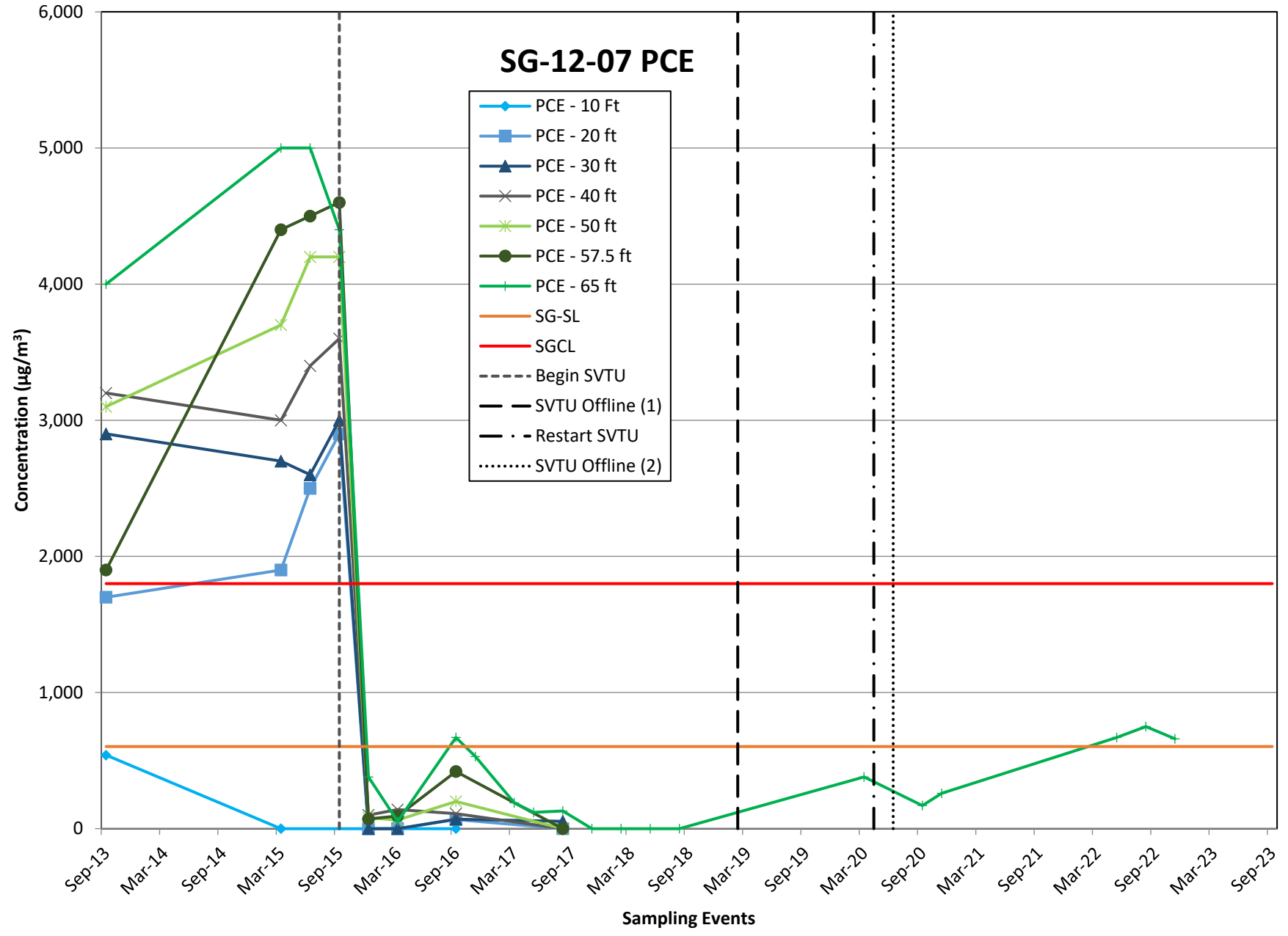


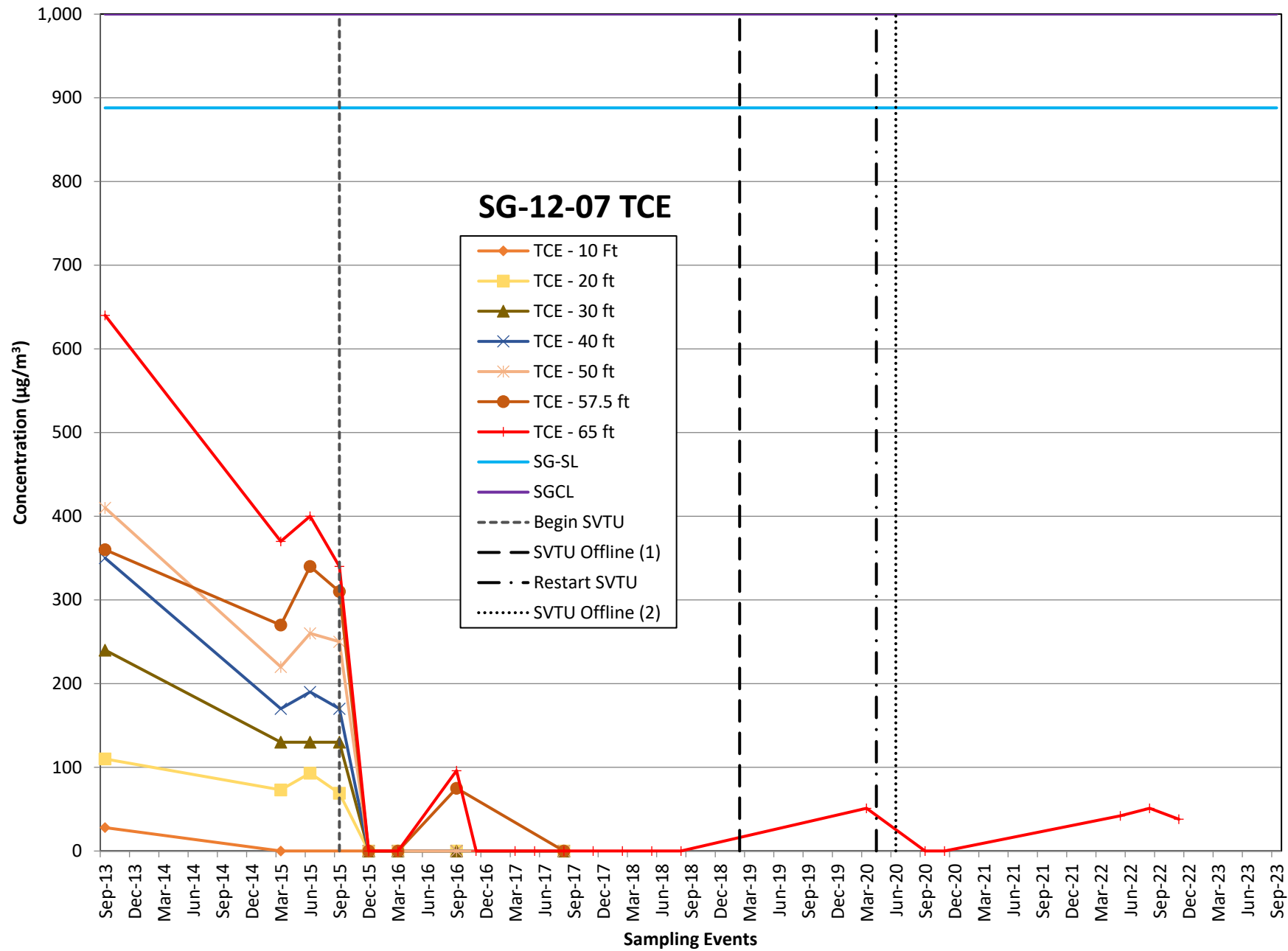




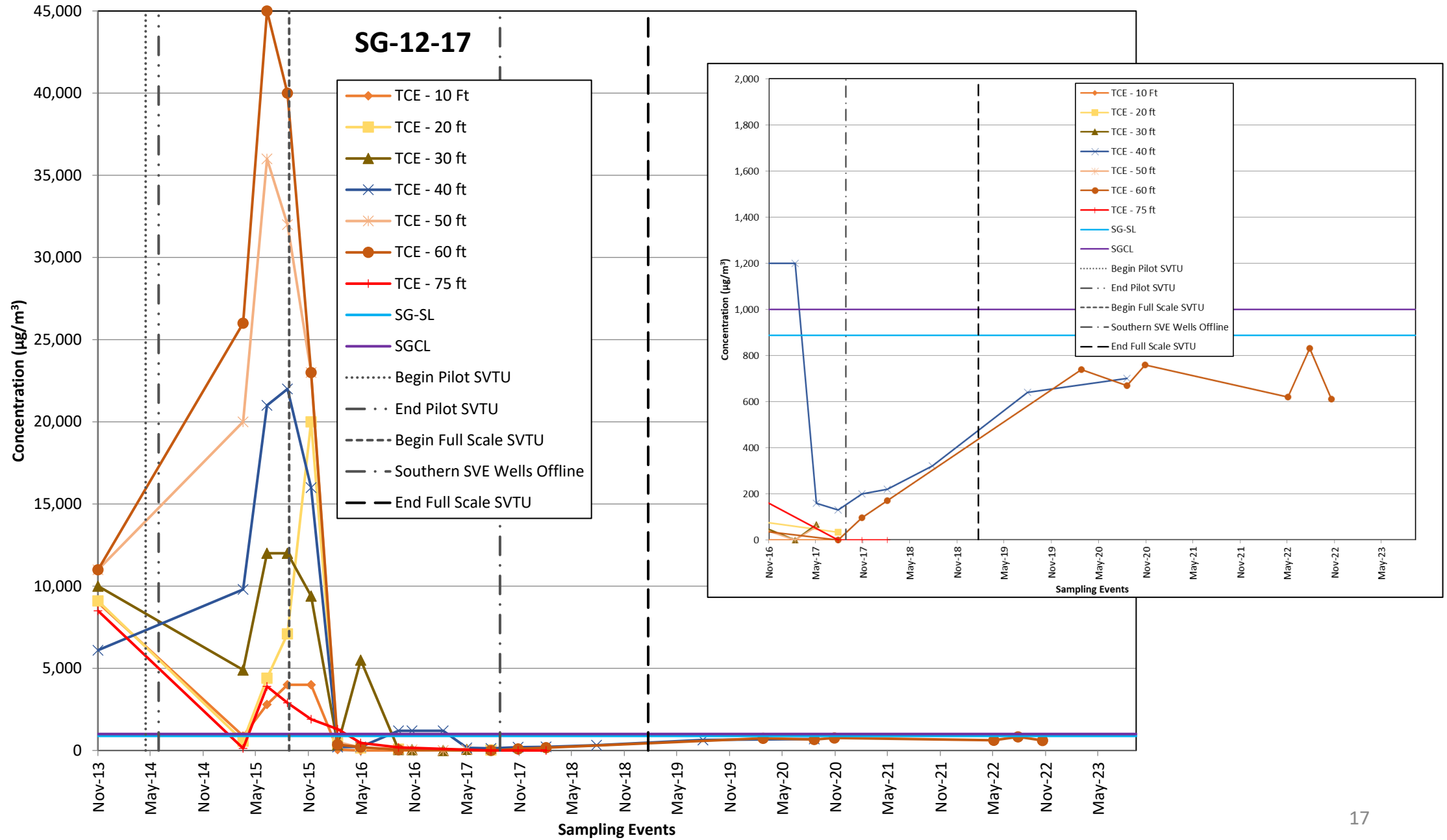












### SG-12-20

