Table 1: Sites 2/12 GWTP and SVTU Statistics as of October 31, 2018

Monthly Statistics	Volume Treated	Average Flow	Percent of Time Online	COC Mass Removed (pounds)
October 2018 GWTP	2,789,241 gal	62 gpm	47.2	0.16
Total since April 1999	2.051 billion gal			485
October 2018 SVTU	23,557,800	497 scfm	100	0.04
Total since September 2015	1.259 billion scf			9.5

Table 2: October 2018 – Sites 2/12 Treated Water Analytical Results at TS-212-INJ

	Discharge	Sample Date / Analytical Results 10/16/2018	
COC	Limit (µg/L) <sup>2</sup>		
1,1-Dichloroethene (1,1-DCE)	6.0	ND (0.25)	
1,2-Dichloroethane (1,2-DCA)	0.50	ND (0.25)	
1,3-dichloropropene (1,3-DCP) <sup>1</sup>	0.50	ND (0.25)	
Chloroform	2.0	ND (0.25)	
cis-1,2-dichloroethene (cis-1,2-DCE)	6.0	0.19 J	
Tetrachloroethene (PCE)	5.0	0.52	
Trichloroethene (TCE)	5.0	0.32 J	
Vinyl Chloride (VC)	0.10	ND (0.05)	

#### Notes:

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

NS: Not sampled

scf: standard cubic foot or feet scfm: standard cubic feet per minute

μg/L: micrograms per liter Results in gray are ND

### October 2018 Key Events for Sites 2/12

- October 12: The OU2 GWTP was shut down at 8:03 am for the start of the transition period. The Sites 2/12 GWTP is operating only during business hours during the transition period. The Sites 2/12 SVTU continues to operate full time.
- October 15: The containment area at the Sites 2/12 GWTP flooded with treated water;
  EW-12-08-180U continued to run when the Sites 2/12 GWTP was shut down on
  October 12. The water was run back through the Sites 2/12 GWTP.

# November 2018 Key Events for Sites 2/12

- November 13-16: Fourth Quarter 2018 soil gas monitoring event.
- Manual 2/12 GWTS operations during OU2 transition period.

## December 2018 Key Events for Sites 2/12

- Manual 2/12 GWTS operations during OU2 transition period.
- December 10-14: Fourth Quarter 2018 groundwater monitoring event.

### January 2019 Key Events for Sites 2/12

Return to automatic fulltime 2/12 GWTS operations after OU2 transition period.



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

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

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

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

	Select COC Concentrations (µg/L) <sup>4</sup>			
	2Q 2018	3Q 2018	2Q 2018	3Q 2018
Well Identification <sup>3</sup>	TCE		PCE	
ACL:	5.0	)	5.	0
EW-12-03-180M	3.3	2.0	0.42 J	0.12 J
EW-12-05-180M	2.5	2.4	0.86	0.82
EW-12-07-180M	2.9	2.5	0.51	0.47 J
EW-12-08-180U	0.50	0.52	10.2	12.3
MW-12-09R-180	3.1	2.8	0.45 J	0.41 J
MW-12-14-180M	3.1	3.0	0.41 J	0.42 J
MW-12-16-180M	1.4	1.4	ND (0.25)	ND (0.25)
MW-12-20-180U	0.13 J	0.15 J	2.5	7.7
MW-12-21-180U	ND (0.25)	ND (0.25)	0.13 J	0.49 J
MW-12-24-180U	ND (0.25)	ND (0.25)	0.81	0.60
MW-12-25-180U	ND (0.25)	ND (0.25)	0.16 J	0.49 J
MW-12-28-180U	ND (0.25)	ND (0.25)	0.41 J	0.32 J
MW-12-31-180M	ND (0.25)	ND (0.25)	0.31 J	0.29 J
MW-12-32-180U	0.96	0.48 J	0.47 J	0.41 J

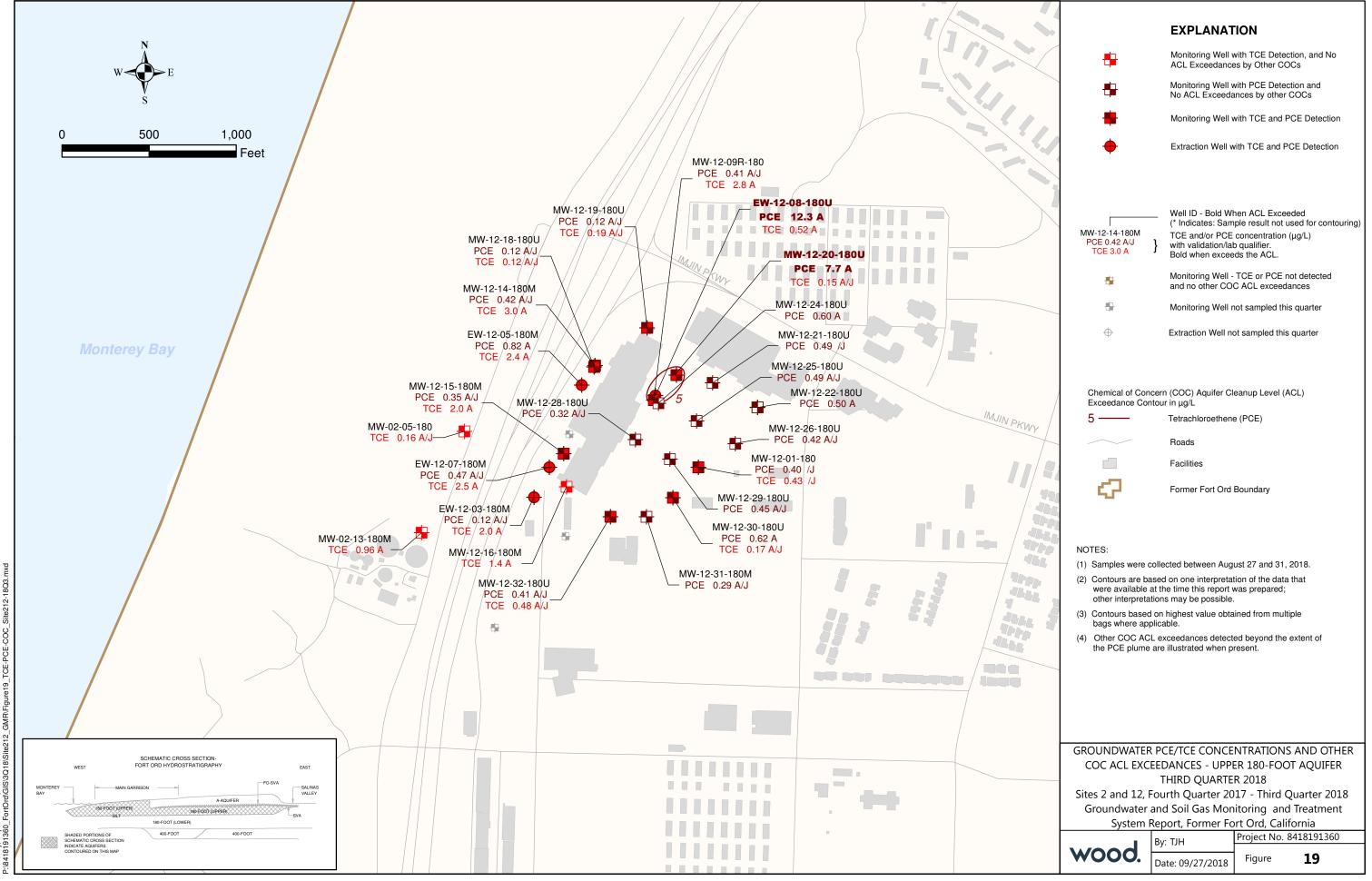
#### Notes:

- <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.
- <sup>3</sup> Extraction wells not listed have met the QAPP decision rules to no longer operate.
- <sup>4</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





Pursday, September 27, 2018 9:33:55 AM thomas.hunt 9:8418191360 FortOnd/GIS30018/Site212 GMR/Floure19 TCE-PCE-COC Site212-18

**Table 4.** Sites 2/12 Proposed Schedule Changes to the QAPP (effective 2018-4Q)

Well Identification	Current Schedule	Proposed Schedule	Primary COC
MW-12-19-180U	А	$D^1$	TCE/PCE
MW-12-25-180U	Q	A <sup>2</sup>	PCE
MW-12-31-180M	Q	A <sup>2</sup>	TCE

#### Notes:

D: depth to water only (no sampling)

PCE: tetrachloroethene

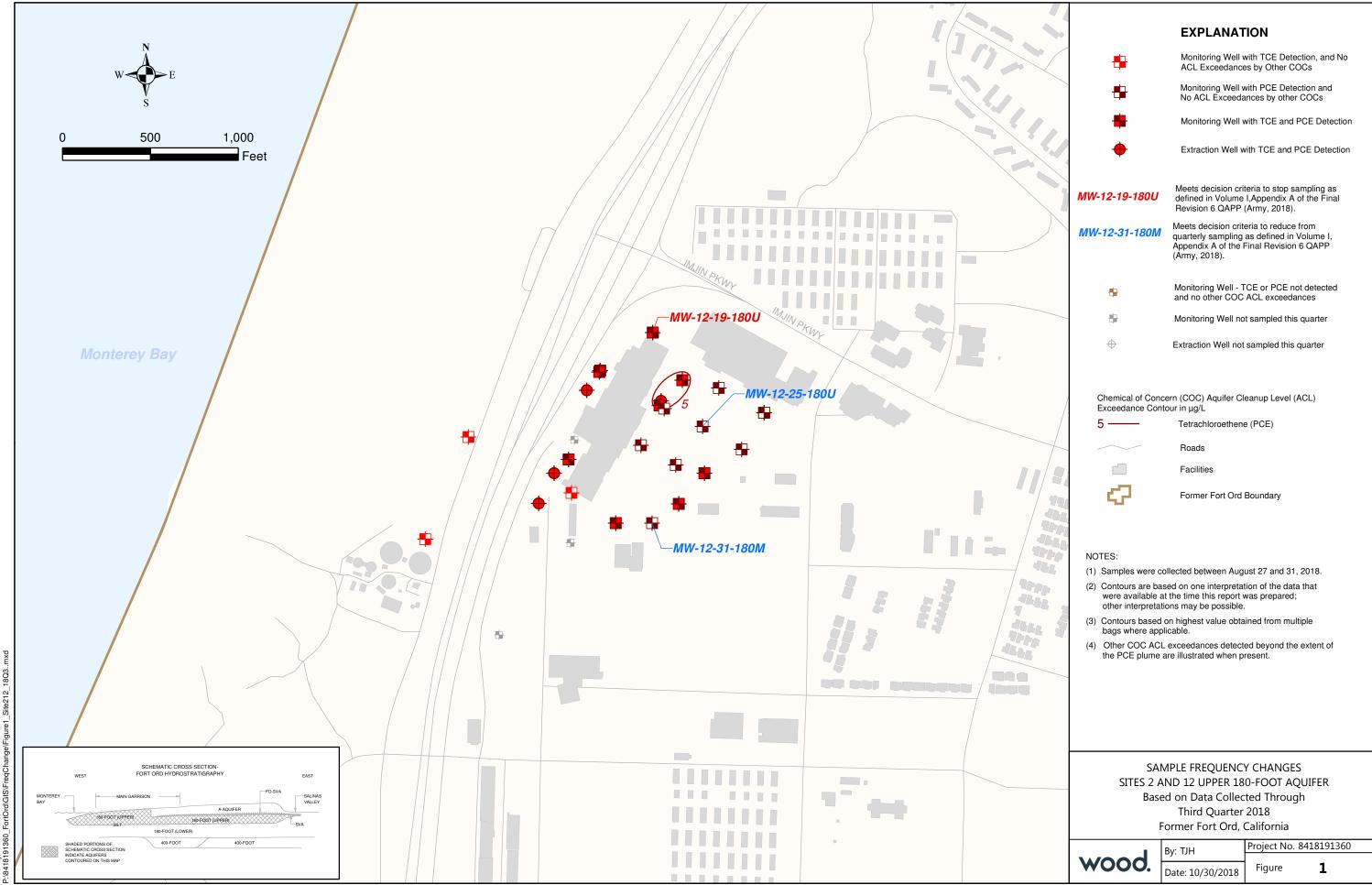
Q: quarterly

TCE: trichloroethene



<sup>&</sup>lt;sup>1</sup> If two consecutive annual monitoring results show concentrations of COCs below their respective limits of quantitation (LOQs), or below 10% of their respective aquifer cleanup levels (ACL), whichever is greater, then the well may be proposed for removal from the sampling program.

<sup>&</sup>lt;sup>2</sup> If four consecutive quarters of monitoring data show concentrations of COCs below their respective LOQs, or below 10% of their respective ACLs, whichever is greater, then the well may be proposed for annual sampling. A: annual



Tuesday, October 30, 2018 3:52:15 PM thomas.hunt 2:8418191360 FortOrd/GIS/FreoChange/Figure1 Site212 1803...

