

Former Fort Ord Sites 2 and 12 Data and Status

HTW BCT, January 10, 2018

Table 1: Sites 2/12 GWTP and SVTU Statistics as of December 31, 2017

Monthly Statistics	Volume Treated	Average Flow	Percent of Time Online	COC Mass Removed (pounds)
Dec 2017 GWTP	2,987,456 gal	67 gpm	51.6	0.24
Total since April 1999	2.001 Billion gal			482
Dec 2017 SVTU	28,334,005 scf	680 scfm	99.8	0.09
Total since Sept 2015	1.025 Billion scf			9.0

Table 2: December 2017 – Sites 2/12 Treated Water Analytical Results at TS-212-INJ

COC	Discharge Limit (µg/L) ²	Sample Date / Analytical Results
		Not Sampled
1,1-Dichloroethene (1,1-DCE)	6.0	NS
1,2-Dichloroethane (1,2-DCA)	0.50	NS
1,3-dichloropropene (1,3-DCP) ¹	0.50	NS
Chloroform	2.0	NS
cis-1,2-dichloroethene (cis-1,2-DCE)	6.0	NS
Tetrachloroethene (PCE)	5.0	NS
Trichloroethene (TCE)	5.0	NS
Vinyl Chloride (VC)	0.10	NS

Notes:

¹ The reported value is the sum of both cis- and trans-isomers.

² 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

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

December 2017 Key Events for Sites 2/12

- USA notice received for area around Bldg 2420 (brick building), vegetation and fence removed from around building.
- Dec 4-8: Fourth Quarter 2017 GWMP event. Diesel odor detected on PDB at MW-12-20-180U, discrete depth sample collected for TPH-DRO and TPH-GRO analysis.
 - Dec 26: Sampled MW-12-01-180.
- Dec 12: Contacted landowner Shea about household refuse disposal near Sites 2/12 GWTP.
- Dec 14: Sites 2/12 GWTP shut down and would not restart. Troubleshooting found the CPU in the PLC had failed. Replacement parts ordered and expected to arrive Dec 28.
- Dec 14: Optimization meeting.

January 2018 Key Events for Sites 2/12

- Restart Sites 2/12 GWTP after repairs completed.
- Schedule GAC removal at INF-02-03-180.
- Coordinate with POM DPW for sulfuric acid removal.



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

Well Identification ³	Select COC Concentrations (µg/L) ⁴			
	3Q 2017	4Q 2017*	3Q 2017	4Q 2017*
	TCE		PCE	
ACL:	5.0		5.0	
EW-12-03-180M	3.0	4.8	0.24 J	0.52
EW-12-05-180M	2.4	2.4	0.77	0.83
EW-12-06-180M	3.3	3.2	0.46 J	0.48 J
EW-12-07-180M	3.2	3.1	0.42 J	0.46 J
EW-12-08-180U	0.66	0.63	16.7	18.4
MW-12-09R-180	4.3	4.4	0.59	0.52
MW-12-14-180M	4.1	7.6	0.61	0.86
MW-12-16-180M	1.3	1.6	ND (0.25)	ND (0.25)
MW-12-20-180U	0.29 J	ND (0.25)	24.6	18.1
MW-12-21-180U	ND (0.25)	ND (0.25)	0.69	0.56
MW-12-24-180U	0.21 J	ND (0.25)	11.1	3.2
MW-12-25-180U	ND (0.25)	ND (0.25)	0.83	0.47 J
MW-12-28-180U	0.14 J	0.11 J	0.52	0.56
MW-12-31-180M	1.4	0.31 J	0.17 J	0.15 J
MW-12-32-180U	1.2	1.8	0.55	0.50

Notes:

¹ The reported value is the sum of both cis- and trans-isomers.

² Discharge limits are the ACLs for injection over the plume.

³ Extraction wells not listed have met the QAPP decision rules to no longer operate.

⁴ 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

NS: Not sampled

µg/L: micrograms per liter

*Preliminary data

MW-12-20-180U Sample 4Q 2017

Grab sample collected for TPH analysis approximately 10 feet below groundwater surface due to diesel odor detected on passive diffusion bag.

Results:

TPH-GRO (C6-C10): ND (<50 µg/L)

TPH-DRO (C10-C28): 262 µg/L

USEPA Region 9 tap water RSL = 100 µg/L

San Francisco RWQCB ESL = 100 µg/L (nuisance/odor)

San Francisco RWQCB ESL = 150 µg/L (human health risk-based)

Seven wells proposed to be sampled for TPH analysis in 1Q 2018 (early March):

- MW-12-18-180U
- MW-12-19-180U
- MW-12-19-180M
- MW-12-20-180U
- MW-12-21-180U
- MW-12-24-180U
- MW-12-25-180U

