Former Fort Ord Sites 2 and 12 Data and Status

HTW BCT, February 2, 2018

Table 1: Sites 2/12 GWTP and SVTU Statistics as of January 26, 2018

Monthly Statistics	Volume Treated	Average Flow	Percent of Time Online	COC Mass Removed (pounds)
Jan 2018 GWTP	5,364,317 gal	120 gpm	100	0.43
Total since April 1999	2.007 Billion gal			483
Jan 2018 SVTU	25,182,465 scf	651 scfm	99.8	0.08
Total since Sept 2015	1.050 Billion scf			9.0

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

COC	Discharge Limit (µg/L)[2]	Sample Date / Analytical Results
		1/2/2018
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)[1]	0.50	ND (0.25)
Chloroform	2.0	ND (0.25)
cis-1,2-dichloroethene (cis-1,2-DCE)	6.0	ND (0.25)
Tetrachloroethene (PCE)	5.0	ND (0.25)
Trichloroethene (TCE)	5.0	ND (0.25)
Vinyl Chloride (VC)	0.10	ND (0.05)

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

January 2018 Key Events for Sites 2/12

- January 8: EW-12-08-180U communications issue caused by storm event, well still operable.

February 2018 Key Events for Sites 2/12

- Schedule GAC removal at INF-02-03-180.
- Coordinate with POM DPW for sulfuric acid removal.

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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

N
W E
S

0 500 1,000
Feet

Monterey Bay

EW-12-08-180U
PCE 18.4 A
TCE 0.63 A

MW-12-09R-180
PCE 0.52 A
TCE 4.4 A

MW-12-14-180M
PCE 0.86 A
TCE 7.6 A

EW-12-05-180M
PCE 0.83 A
TCE 2.4 A

MW-12-17-180U

EW-12-06-180M
PCE 0.48 A/J
TCE 3.2 A

MW-12-15-180M
PCE 0.60 A
TCE 3.1 A

EW-12-07-180M
PCE 0.46 A/J
TCE 3.1 A

EW-12-03-180M
PCE 0.52 A
TCE 4.8 A

MW-02-13-180M
TCE 2.4 A

MW-12-16-180M
PCE ND(0.25) A/U
TCE 1.6 A

MW-12-32-180U
PCE 0.50 A
TCE 1.8 A

MW-12-07-180

MW-12-28-180U
PCE 0.56 A
TCE 0.11 A/J

MW-12-24-180U
PCE 3.2 A

MW-12-20-180U
PCE 18.1 A

MW-12-21-180U
PCE 0.56 A

MW-12-25-180U
PCE 0.47 A/J

MW-12-22-180U
PCE 0.63 A

MW-12-26-180U
PCE 0.52 A

MW-12-01-180
PCE 0.35 A/J
TCE 0.25 A/J

MW-12-29-180U
PCE 0.72 A

MW-12-30-180U
PCE 1.0 A
TCE 0.25 A/J

MW-12-31-180M
PCE 0.15 A/J
TCE 0.31 A/J

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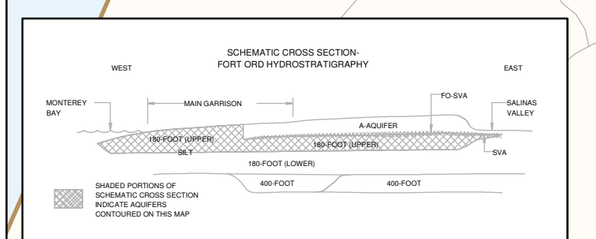

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EXPLANATION

- Monitoring Well with TCE Detection, and No ACL Exceedances by Other COCs
- Monitoring Well with PCE Detection
- Monitoring Well with TCE and PCE Detection
- Extraction Well with TCE and PCE Detection
- EW-12-05-180M / PCE 0.83 A / TCE 2.4 A — Well ID - Bold When ACL Exceeded (* Indicates: Sample result not used for contouring); TCE and/or PCE concentration (µg/L) with validation/lab qualifier. Bold when exceeds the ACL.
- Monitoring Well - TCE or PCE not detected and no other COC ACL exceedances
- Monitoring Well not sampled this quarter
- Extraction Well not sampled this quarter

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

- 5 — Tetrachloroethene (PCE)
- Roads
- Facilities
- Former Fort Ord Boundary

NOTES:

(1) Samples were collected between December 4 and 7, 2017.

(2) Contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.

(3) Contours based on highest value obtained from multiple bags where applicable.

(4) Other COC ACL exceedances detected beyond the extent of the PCE plume are illustrated when present.

GROUNDWATER PCE/TCE CONCENTRATIONS AND OTHER COC ACL EXCEEDANCES
UPPER 180-FOOT AQUIFER
Sites 2 and 12 Fourth Quarter 2017
Groundwater and Soil Gas Monitoring and Treatment System Report
Former Fort Ord, California

Date: 1/2018 | Project No. 8417190510

amec foster wheeler

Figure 12

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