# Former Fort Ord Sites 2 and 12 Data and Status HTW BCT, September 12, 2018

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

|                        |                   |              |             | COC Mass |
|------------------------|-------------------|--------------|-------------|----------|
|                        |                   |              | Percent of  | Removed  |
| Monthly Statistics     | Volume Treated    | Average Flow | Time Online | (pounds) |
| August 2018 GWTP       | 5,270,636 gal     | 118 gpm      | 100         | 0.35     |
| Total since April 1999 | 2.043 billion gal |              |             | 485      |
| August 2018 SVTU       | 22,358,342 scf    | 500 scfm     | 99.7        | 0.04     |
| Total since Sept 2015  | 1.216 billion scf |              |             | 9.5      |

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

|  | Discharge                 | Sample Date / Analytical Results |            |  |  |
|--|---------------------------|----------------------------------|------------|--|--|
| сос  | Limit (µg/L) <sup>2</sup> | 08/07/2018                       | 08/25/2018 |  |  |
| 1,1-Dichloroethene (1,1-DCE)               | 6.0                       | ND (0.25)                        | ND (0.25)  |  |  |
| 1,2-Dichloroethane (1,2-DCA)               | 0.50                      | ND (0.25)                        | ND (0.25)  |  |  |
| 1,3-dichloropropene (1,3-DCP) <sup>1</sup> | 0.50                      | ND (0.25)                        | ND (0.25)  |  |  |
| Chloroform                                 | 2.0                       | 0.16 J                           | 0.21 J     |  |  |
| cis-1,2-dichloroethene (cis-1,2-DCE)       | 6.0                       | 0.16 J                           | 0.29 J     |  |  |
| Tetrachloroethene (PCE)                    | 5.0                       | 0.13 J                           | ND (0.25)  |  |  |
| Trichloroethene (TCE)                      | 5.0                       | ND (0.25)                        | ND (0.25)  |  |  |
| Vinyl Chloride (VC)                        | 0.10                      | ND (0.05)                        | 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

# August 2018 Key Events for Sites 2/12

- August 13-16: Third Quarter 2018 soil gas probes sampled.
- August 22: Third Quarter 2018 SVTU and VE-12-09 sampled.
- August 23: Decommissioned MW-02-12-180.
- August 15: Third Quarter 2018 EW-12-05-180M, EW-12-07-180M, and EW-12-08-180U samples collected.
- August 15: SVETS offline for 2 hours to check sumps and perform routine inspections and maintenance.
- August 27-31: Third Quarter 2018 groundwater monitoring wells sampled.

## September 2018 Key Events for Sites 2/12

None planned.



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

 $<sup>^{\</sup>rm 2}\,{\rm Discharge}$  limits are the ACLs for injection over the plume.

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



PCE and/or TCE concentration (μg/m<sup>3</sup>)

- (2) Contours are based on one interpretation of the data that were available at the time this report was prepared;
- (3) Contours based on highest value obtained from duplicate

250 Feet

through Third Quarter 2018 **Groundwater and Soil Gas** Monitoring and Treatment System Report Former Fort Ord, California

**26** 

Table 3. Sites 2/12 Northern SVE Well Field Monitoring Results

|             | North SVE Field |     |          |     |          |     |          |     |          |     |
|-------------|-----------------|-----|----------|-----|----------|-----|----------|-----|----------|-----|
|             | VE-12           | -06 | VE-12-07 |     | VE-12-08 |     | VE-12-09 |     | VE-12-10 |     |
| Sample Date | PCE             | TCE | PCE      | TCE | PCE      | TCE | PCE      | TCE | PCE      | TCE |
| 9/16/2015   | 1,700           | ND  | 1,200    | ND  | 2,100    | ND  | 1,500    | 48  | 460      | ND  |
| 9/22/2015   | 1,100           | ND  | 750      | ND  | 1,200    | ND  | 1,100    | 86  | 230      | ND  |
| 9/29/2015   | 940             | ND  | 860      | ND  | 970      | ND  | 1,100    | 90  | 220      | ND  |
| 10/6/2015   | 680             | ND  | 560      | ND  | 670      | ND  | 870      | 53  | 180      | ND  |
| 11/12/2015  | 260             | ND  | 180      | 84  | 310      | ND  | 410      | ND  | 97       | ND  |
| 12/8/2015   | 230             | ND  | 130      | 180 | 260      | ND  | 350      | ND  | ND       | ND  |
| 3/1/2016    | 66              | ND  | ND       | ND  | 130      | ND  | 190      | ND  | 44       | ND  |
| 6/6/2016    | 130             | ND  | 55       | ND  | 120      | ND  | 190      | ND  | 48       | ND  |
| 9/30/2016^  | 54              | ND  | 130      | ND  | 190      | ND  | 310      | ND  | 92       | ND  |
| 11/16/2016  | 77 J            | ND  | NS       | NS  | NS       | NS  | 220      | ND  | 92       | ND  |
| 3/1/2017    | ND              | ND  | NS       | NS  | NS       | NS  | 160      | ND  | 46 J     | ND  |
| 5/23/2017   | ND              | ND  | NS       | NS  | NS       | NS  | 110      | ND  | ND       | ND  |
| 8/8/2017    | ND              | ND  | NS       | NS  | 120      | ND  | 170      | ND  | ND       | ND  |
| 11/15/2017  | ND              | ND  | NS       | NS  | NS       | NS  | 66 J     | ND  | ND       | ND  |
| 2/20/2018   | ND              | ND  | NS       | NS  | NS       | NS  | 74 J     | ND  | ND       | ND  |
| 5/22/2018   | ND              | ND  | NS       | NS  | NS       | NS  | 64 J     | ND  | ND       | ND  |
| 8/22/2018*  | NS              | NS  | NS       | NS  | NS       | NS  | ND       | ND  | NS       | NS  |

## Notes:

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 (µg/m³)



**Table 4.** Sites 2/12 SVTU Monitoring Results

|             | P                     | CE     | TO         | CE         |  |
|-------------|-----------------------|--------|------------|------------|--|
| Sample Date | SVE-12-INF SVE-12-EFF |        | SVE-12-INF | SVE-12-EFF |  |
| 9/16/2015   | 1,500                 | ND     | 38         | ND         |  |
| 9/22/2015   | 1,100                 | ND     | 61         | ND         |  |
| 9/29/2015   | 710                   | ND     | 57         | ND         |  |
| 10/6/2015   | 370                   | 1.3 J  | 43         | ND         |  |
| 11/12/2015  | 240                   | 0.80 J | 92         | ND         |  |
| 12/8/2015   | 160                   | ND     | 100        | ND         |  |
| 3/1/2016    | 65 J+                 | ND     | 49 J+      | ND         |  |
| 6/7/2016    | 50                    | ND     | 31         | ND         |  |
| 9/14/2016   | 1.3 J+                | ND     | 9.7 J+     | ND         |  |
| 9/30/2016   | 130                   | NS     | 6.0        | NS         |  |
| 11/16/2016  | 29                    | ND     | 16         | 2.7        |  |
| 3/1/2017    | 27 J+                 | ND     | 12 J       | 4.5 J      |  |
| 5/23/2017   | 30                    | ND     | 19         | 14         |  |
| 8/8/2017    | 34                    | ND     | 17         | 11         |  |
| 11/15/2017  | 49                    | ND     | 4.8        | 7.4        |  |
| 2/20/2018   | 34                    | 0.72 J | 6.9        | 28         |  |
| 5/22/2018   | 37                    | 5.9    | 6.1        | 38         |  |
| 8/22/2018*  | 22                    | ND     | 5.4        | 25         |  |

## Notes:

J = estimated result below the limit of quantitation (LOQ) with a potential low (-) or high (+) bias 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

\*Preliminary data

Results reported in micrograms per cubic meter (µg/m³)

SVTU Effluent emission AERSCREEN Modeling discharge compliance calculation results are:

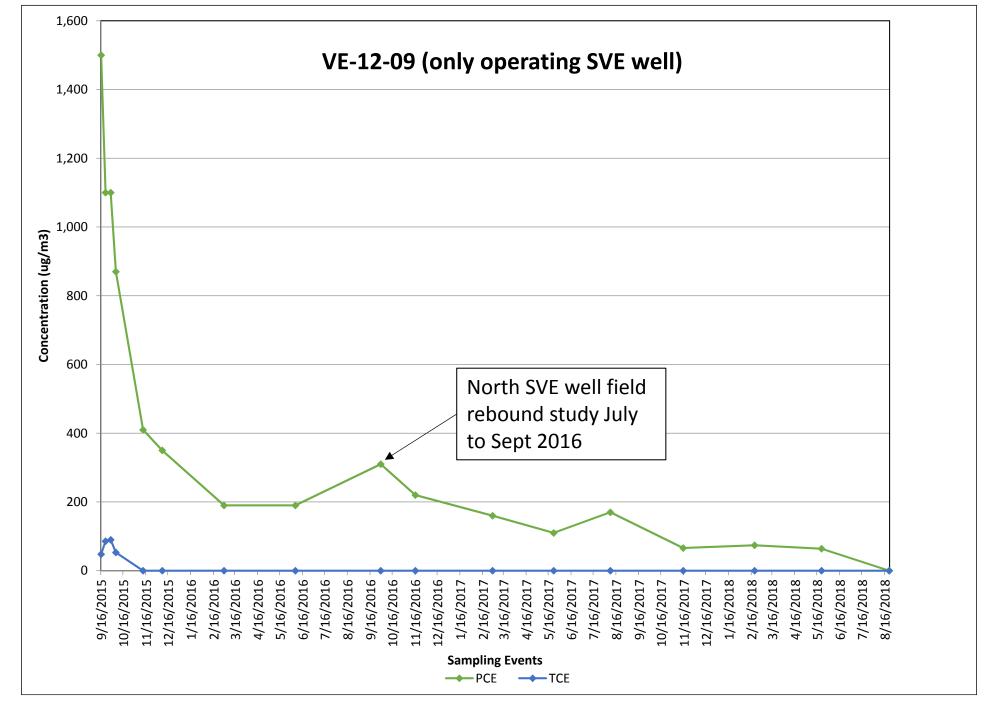
Rule 207 Emission: 0.001 pounds VOCs per day (less than limit of 25 pounds per day)

Rule 1000 Hazard Index: 0.00001 (less than limit of 1.0)

Rule 1000 Excess Cancer Risk: 0.0075×10<sup>-5</sup> (less than limit of 1×10<sup>-5</sup>)

<sup>^</sup>SVE Northern well field offline mid-July to Sept 23, 2016 (approx. 10 weeks), and online for one week prior to sampling for rebound study.

<sup>\*</sup> Preliminary data



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

| Call Car             | 3Q 2017 | 2Q 2018 | 3Q 2018* | 3Q 2017 | 2Q 2018 | 3Q 2018* |  | New<br>Schedule |
|----------------------|---------|---------|----------|---------|---------|----------|--|-----------------|
| Soil Gas<br>Probe ID | PCE     |         |          | TCE     |         |          |  | Ne<br>Sche      |
| SG-12-01-10          | ND      | NS      | ND       | ND      | NS      | ND       |  | R               |
| SG-12-01-20          | 600     | NS      | 220      | ND      | NS      | ND       |  | R               |
| SG-12-01-30          | 230     | NS      | ND       | ND      | NS      | ND       |  | R               |
| SG-12-01-65          | NS      | ND      | ND       | NS      | ND      | ND       |  | Q <sup>2</sup>  |
| SG-12-02-10          | 1,700   | 1,100   | 1,400    | ND      | ND      | ND       |  | Q <sup>1</sup>  |
| SG-12-02-20          | 1,300   | NS      | 1,200    | ND      | NS      | ND       |  | Α               |
| SG-12-02-30          | 1,200   | NS      | 1,100    | ND      | NS      | ND       |  | Α               |
| SG-12-02-40          | 940     | NS      | 920      | ND      | NS      | ND       |  | Α               |
| SG-12-02-50          | 920     | NS      | 960      | ND      | NS      | ND       |  | Α               |
| SG-12-02-57          | 900     | NS      | 820      | ND      | NS      | ND       |  | Α               |
| SG-12-02-65          | 890     | NS      | 680      | ND      | NS      | ND       |  | Α               |
| SG-12-04-10          | ND      | ND      | ND       | ND      | ND      | ND       |  | $Q^1$           |
| SG-12-04-65          | 90      | ND      | ND       | ND      | ND      | ND       |  | $Q^2$           |
| SG-12-06-10          | ND      | ND      | ND       | ND      | ND      | ND       |  | $Q^1$           |
| SG-12-06-60          | ND      | ND      | ND       | ND      | ND      | ND       |  | Q <sup>2</sup>  |
| SG-12-07-65          | 130     | ND      | ND       | ND      | ND      | ND       |  | $Q^2$           |
| SG-12-16-60          | ND      | NS      | ND       | ND      | NS      | 590      |  | R               |
| SG-12-17-40          | ND      | NS      | ND       | 130     | NS      | 320      |  | R               |
| SG-12-20-10          | 1,200   | NS      | 1,200    | ND      | NS      | ND       |  | Α               |
| SG-12-20-20          | 310     | NS      | 720      | ND      | NS      | ND       |  | Α               |

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

## Notes:

A = Annual

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

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

NS = not sampled

Q = Quarterly

R = Removed

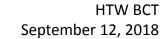
Concentrations in **bold** exceed the SGCL

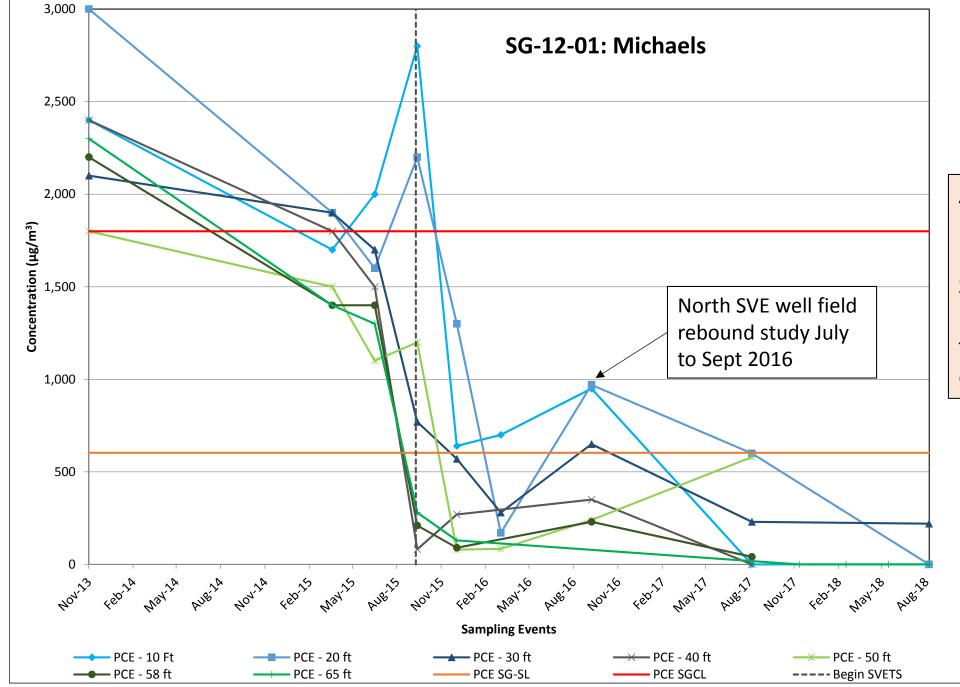
Concentrations in italics exceed the SG-SL

Results reported in micrograms per cubic meter (µg/m³)

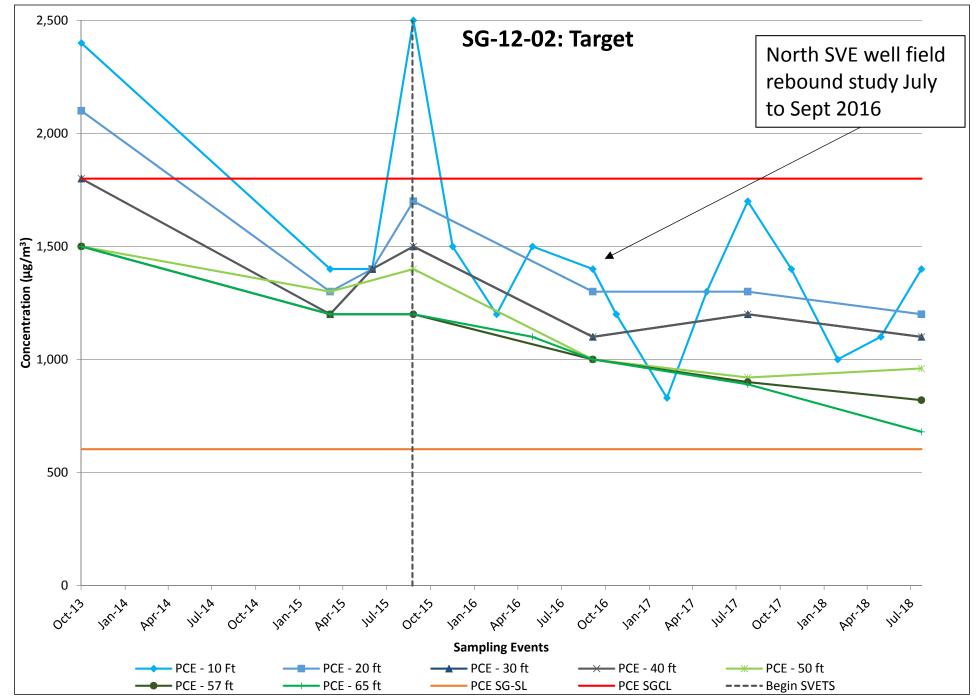
- <sup>1</sup> Quarterly probe due to proximity of store front in an area of historic soil gas concentrations above the SGCL.
- <sup>2</sup> Will continue to sample probe quarterly if it is within the vicinity of the current groundwater plume above the ACL (probe adjacent to deepest probe will be sampled in lieu if deepest probe is in saturated zone).
- \* Preliminary data





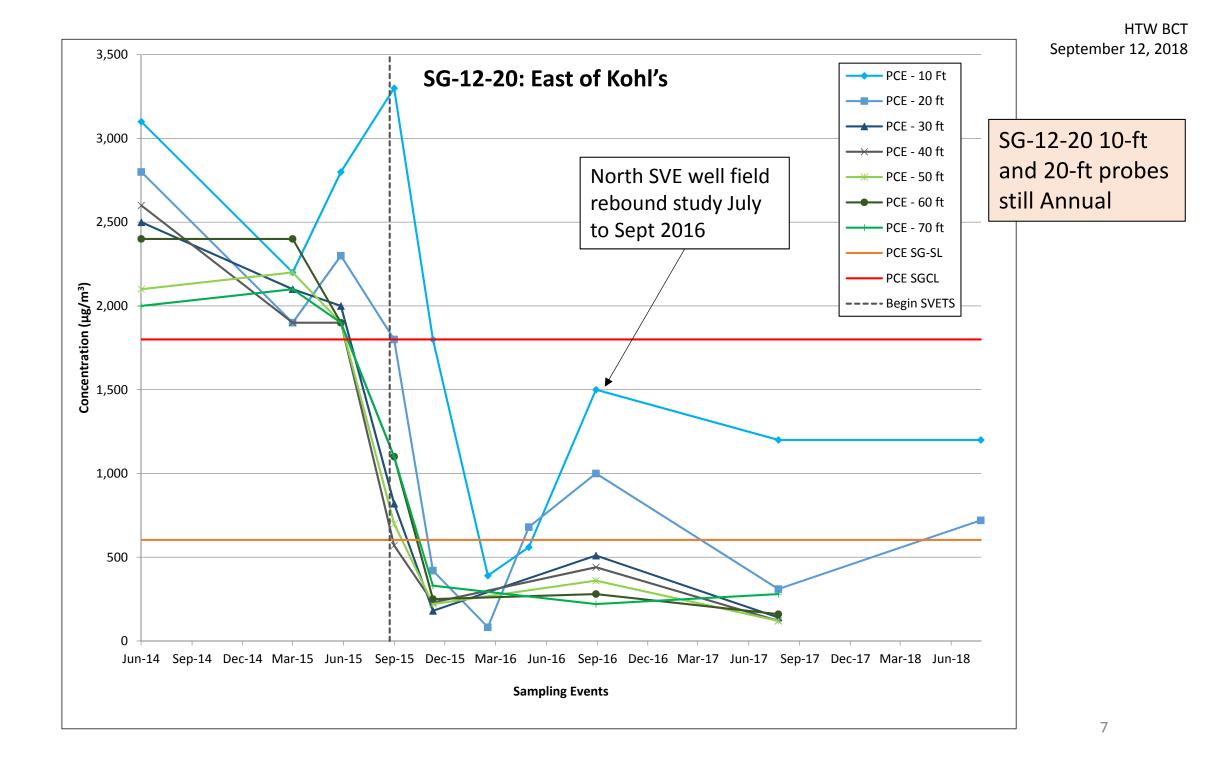


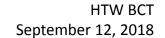
All SG-12-01
probes now
removed from
SGMP unless
near GW plume
then sample
deepest probe

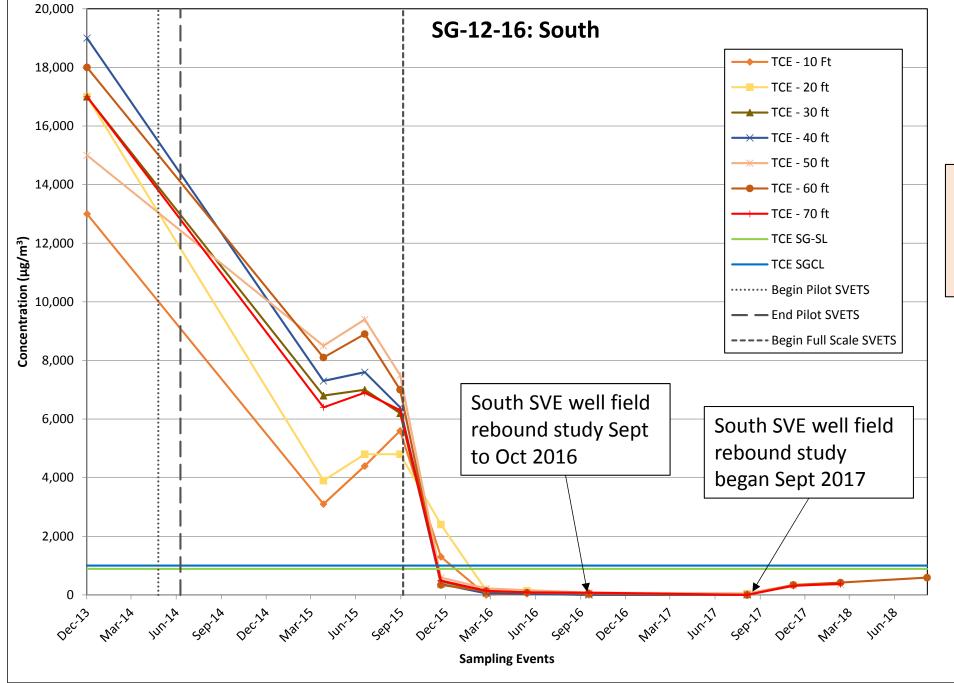


All SG-12-02 probes still Annual except 10-ft probe (Quarterly because adjacent to Target).

Probes not in ROI of SVETS operations but decreasing trends.







All SG-12-16 probes now removed from SGMP

