

Former Fort Ord Operable Unit Carbon Tetrachloride Plume Data and Status

HTW BCT, July 12, 2019

June 2019 Key Events for OUCTP

- June 3-7: Second Quarter 2019 Groundwater Monitoring.
- June 18 : Optimization Meeting
- June 27: Complete Second Quarter 2019 Groundwater Monitoring event.

July 2019 Key Events for OUCTP

- Issue Pre-Draft Denise Duffy and Associates Biological Survey Report.

Ahtna

Table 1. OUCTP A-Aquifer Select Monitoring Well Data

| OUCTP Hydraulic Zone ¹ | EISB Deployment Area | Well Identification | COC Concentrations (µg/L) | |
|-----------------------------------|----------------------|---------------------|------------------------------|---------------------|
| | | | 1Q 2019 | 2Q 2019* |
| | | | CT | |
| ACL: | | | 0.5 | |
| 1 | 1C | EW-BW-109-A | 1.7 | 1.4 |
| 1 | N/A | MW-BW-24-A | ND (0.25) | ND (0.25) |
| 2 | 3A | MW-BW-58-A | 0.37 J | ND (0.25) |
| 2 | 3A | MW-BW-87-A | 1.4 | 1.8 |
| 2 | 3A | MW-BW-91-A | 2.7 | 2.1 |
| 2 | N/A | MW-BW-94-AR | 0.55 | 0.48 J |
| N/A | 3A | MW-BW-90-A | 1.5 | 1.4 |
| 2 | 3A | EW-BW-160-A | 2.8 J+ | |
| 3 | 3A | EW-BW-166-A | ND (0.25) | |
| 3 | N/A | MW-BW-88-A | 1.2 | 1.3 |
| 3 | N/A | MW-BW-93-A | 0.16 J | 0.20 J |
| 3 | N/A | MW-BW-95-A | 1.3 | 1.4 |
| 4 | 2A | EW-BW-124-A | 0.94 J+ | 0.95 |
| 4 | N/A | MW-B-12-A | ND (0.25) | 0.49 J |
| 4 | 2B | MW-B-14-A | 1.2 | 0.77 |
| 4 | 2B | EW-BW-155-A | 0.50 | 0.32 J |
| 4 | 2A | MW-BW-26-A^ | 6.0 | 5.8 |
| 4 | N/A | MW-BW-31-A | ND (0.25) | 1.5 |
| 4 | N/A | MW-BW-32-A | 2.4 | 2.1 |
| 4 | N/A | MW-BW-36-A | 1.3 | 0.92 |
| 4 | N/A | MW-BW-42-A | ND (0.25) | ND (0.25) |
| 4 | N/A | MW-BW-89-A | 1.1 | 0.95 |
| 4 | N/A | MW-BW-92-A | 1.4 | 1.0 |
| 5 | Pilot | EISB-EW-01 | 0.72 | 0.54 |
| 5 | Pilot | EISB-EW-09 | 2.0 | 1.6 |
| 5 | N/A | MW-BW-65-A | 0.48 J- | 0.23 J |
| 5 | Pilot | MW-BW-66-A | 1.9 | 2.0 |
| 5 | N/A | MW-BW-74-A | 0.11 J- [0.12 J-] | 1.4 [0.10 J] |
| 5 | N/A | MW-BW-49-A | 0.68 J- | 0.33 J |
| 5 | N/A | MW-BW-78-A | ND (0.25) [0.51 J+] | 0.27 J [0.20 J] |
| 5 | N/A | MW-BW-80-A | 0.77 J- | ND (0.25) |

Notes:

CT: carbon tetrachloride

µg/L: micrograms per liter

ND: The analyte was not detected above the detection limit

NS: not sampled

J: Estimated result with a low (-) or high (+) bias

¹ Hydraulic zones are identified in the Groundwater QAPP.

Results in **bold** and shaded are concentrations above the ACL

Results in gray are ND

COC: chemical of concern

[Results in brackets are from a second deeper passive diffusion bag]

^ Downgradient monitoring well MW-BW-30-A sampled annually: ND.

* Preliminary data

Table 2. OUCTP Upper 180-Foot Aquifer Select Monitoring Well Data

| OUCTP Hydraulic Zone ¹ | Well Identification | CT Concentration (µg/L) ² | |
|-----------------------------------|----------------------------|--------------------------------------|-------------|
| | | 1Q 2019 | 2Q 2019* |
| ACL: | | 0.5 | |
| 6 | EW-OU2-09-180 ³ | ND (0.25) | ND (0.25) |
| 6 | MP-BW-46-170 | 8.9 J | 5.4 |
| 6 | MP-BW-46-185 | NS | ND (0.25) |
| 6 | MW-BW-52-180 | 0.61 | 0.81 |
| 6 | MW-BW-57-180 | 0.30 J | 0.66 |
| 6 | MW-BW-58-180 | ND (0.25) | ND (0.25) |
| 6 | MW-OU2-64-180 | 6.9 | 4.4 |
| 6 | MW-OU2-67-180 ⁵ | 0.28 J | 0.19 J |

Notes:

ACL: aquifer cleanup level

COC: chemical of concern

CT: carbon tetrachloride

MCL: maximum contaminant level

ND: The analyte was not detected at or above the detection limit

NS: not sampled

TCE: trichloroethene

µg/L: micrograms per liter

J: Estimated result with a low (-) or high (+) bias

¹ Hydraulic zones are identified in the Groundwater QAPP.

² Concentration in **bold** and shaded cell exceeds the Aquifer Cleanup Level (ACL) for CT and the Maximum Contaminant Level (MCL) for TCE. Results in gray are ND.

³ EW-OU2-09-180 is operated as part of the remedy for the OUCTP Upper 180-Foot Aquifer and is connected to the OU2 GWTP.

⁴ TCE is not a COC in the OUCTP Lower 180-Foot Aquifer (reported for Lower 180-Foot Aquifer with respect to protection of supply wells)

⁵ Downgradient well MW-OU2-70-180 sampled annually: ND.

* Preliminary data

Table 3. OUCTP Lower 180-Foot Aquifer Select Monitoring Well Data

| OUCTP Hydraulic Zone ¹ | Well Identification | Select COC Concentrations (µg/L) ² | | | |
|-----------------------------------|---------------------|---|-------------|------------------|-------------|
| | | 1Q 2019 | 2Q 2019* | 1Q 2019 | 2Q 2019* |
| | | CT | | TCE ⁴ | |
| Limit: | | ACL 0.5 | | MCL 5.0 | |
| 7 | MP-BW-49-316 | 1.5 | 2.0 | ND (0.25) | ND (0.25) |
| 7 | MP-BW-49-400 | ND (0.25) | ND (0.25) | 4.0 | 4.6 |
| 7 | MP-BW-50-339 | 0.29 J | 1.3 | 0.17 J | ND (0.25) |
| 7 | MP-BW-50-384 | 0.10 J | ND (0.25) | 2.3 | 1.3 |
| 7 | MP-BW-51-405 | 0.16 J | 0.17 J | 1.7 | 1.5 |
| 7 | MW-OU2-69-180 | 0.70 | 1.0 | 0.10 J | 0.10 J |
| 8 | AIRFIELD | 0.16 J | 0.54 | ND (0.25) | ND (0.25) |
| N/A | EW-OU2-07-180 | ND (0.25) | ND (0.25) | 2.7 | 2.3 |
| N/A | FO-29 | 0.20 J | 0.19 J | 1.5 | 1.8 |
| N/A | FO-30 | 0.12 J | 0.15 J | 0.55 | 0.57 |
| N/A | FO-31 | ND (0.25) | ND (0.25) | 0.11 J | 0.91 |
| N/A | MP-BW-41-353 | ND (0.25) | ND (0.25) | 1.3 | 1.6 |
| N/A | MW-BW-59-180 | ND (0.25) | 0.12 J | 8.9 | 11.3 |
| N/A | MW-OU2-72-180 | ND (0.25) | ND (0.25) | 1.4 | 1.3 |
| N/A | MW-OU2-78-180 | ND (0.25) | ND (0.25) | 1.5 | 2.3 |
| N/A | MW-OU2-82-180 | ND (0.25) | ND (0.25) | 4.6 | 4.1 |

Table 4. OUCTP 400-Foot Profile Data

| OUCTP Hydraulic Zone ¹ | Well Identification | Sample Depth (ft btoc) | CT Concentration (µg/L) | TCE Concentration (µg/L) |
|-----------------------------------|---------------------|------------------------|-------------------------|--------------------------|
| | | | 2Q 2019* | |
| N/A | MW-OU2-28-400 | 408 | ND (0.25) | ND (0.25) |
| | | 413 | ND (0.25) | ND (0.25) |
| | | 418 | ND (0.25) | ND (0.25) |
| | | 423 | ND (0.25) | ND (0.25) |
| | | 428 | ND (0.25) | ND (0.25) |
| | | 433 | ND (0.25) | ND (0.25) |

Notes:

COC: chemical of concern

CT: carbon tetrachloride

TCE: trichloroethene

ND: The analyte was not detected at or above the detection limit

µg/L: micrograms per liter

¹ Hydraulic zones are identified in the Groundwater QAPP.

* Preliminary data

