



**Final
Hazardous and Toxic Waste (HTW) Base Realignment
and Closure (BRAC) Cleanup Team (BCT)**



Meeting Minutes

January 9, 2019

BRAC Conference Room
Former Fort Ord, California

Agenda

Reference the handout titled "HTW BRAC Cleanup Team Meeting Agenda, Wednesday, January 9, 2019 at 1:30 PM, Former Fort Ord, California."

1. Attendance

Last Name	First Name	Organization	By Phone
Anderson	Thor	Burleson Consulting	
Arsov	Vlado	California Department of Toxic Substances Control (DTSC)	
Broadston	Melissa	Chenega supporting BRAC	
Caruso	Erin	Gilbane	X
Collins	Bill	U.S. Army Base Realignment and Closure (BRAC), Fort Ord Office	
Crane	Steve	KEMRON Environmental Services (KEMRON)	
Dillon	Holly	Ahtna Environmental, Inc. (Ahtna)	
Fenton	Jeff	Wood Environment & Infrastructure Solutions, Inc. (wood.)	
Gentry	Dana	U.S. Army Corps of Engineers (USACE)	X
Gettmann	Kimberly	DTSC	X
Ginorio-Dean	Amber	USACE	X
Kan	Alex	USACE	
Kowalski	Bart	Chenega supporting BRAC	
Lieberman	Derek	Ahtna	
Savage	Tom	USACE	X
Sellinger	Amber	California Regional Water Quality Control Board, Central Coast Region (CCRWQCB)	X
Soderberg	Sheila	CCRWQCB	X
Sterling	Steve	DTSC	X
Stiebel	Cary	Chenega supporting BRAC	
Whipple	Jonathan	USACE	X
Wu	Min	DTSC	

2. BCT Minutes Status

Hazardous and Toxic Waste (HTW) Base Realignment and Closure (BRAC) Cleanup Team (BCT) meeting minutes are final through October 2018.

3. Community Outreach Update

The handout titled "U.S. Army Community Outreach Update" was reviewed. Additional discussion included:

- The end of the burn season was announced on December 14, 2018.
- Bill Collins stated munitions response work is not fully funding for the next three years and the next Fort Ord munitions response contract may be postponed. However, the landfill, soil, and groundwater programs are funded. Possible constrained funding may continue through 2022.
- Vlado Arsov stated that DTSC's Deputy Director requested a presentation of about 7-8 slides for Fort Ord cleanup program from 2017 to 2018 for a Bay Area public meeting where Fort Ord and other cleanup sites will be discussed. The audience is unknown for the event.

4. Operable Unit 2 (OU2)

a. Groundwater Remedy/Monitoring –

The handout titled "Former Fort Ord Operable Unit 2 Data and Status" was reviewed. Additional discussion included:

- The transition period for the new Operable Unit 2 (OU2) groundwater treatment plant (GWTP) began October 12, 2018. The new OU2 GWTP statistics are now being reported. Difference in flow rates at the new GWTP is attributed to bringing more extraction wells online. More extraction wells in the western network are still offline and are being worked on.
- Chemicals of concern (COCs) were not detected in the OU2 GWTP injection samples collected in December.
- The Fourth Quarter 2018 Groundwater Monitoring event was conducted in December and some preliminary results were received.
 - Sampling included the OU2 perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) screening. Unfortunately, the laboratory compromised the PFOA/PFOS samples with high concentration samples that were collected from a different site (not at Fort Ord). The samples will have to be recollected in the First Quarter 2019 GWMP event.
 - Western monitoring well MW-OU2-40-A had an order of magnitude increase in TCE concentration from 5.6 micrograms per liter ($\mu\text{g/L}$) to 14.9 $\mu\text{g/L}$. This monitoring well is between two offline extraction wells EW-OU2-05-A and EW-OU2-06-A, which were not sampled because they are not connected the new OU2 GWTP yet. The increase at MW-OU2-40-A may be attributed to the extraction wells being offline. These wells are currently being worked on.
 - MW-OU2-25-A had an increase in 1,2-dichloroethane concentration above the aquifer cleanup level (ACL). The increase will not change the COC plume boundaries much.
 - MW-BW-50-A was an Operable Unit Carbon Tetrachloride (OUCTP) plume well moved to OU2. The tetrachloroethene (PCE) result at this well decreased below the ACL in the Fourth Quarter 2018.
 - The PCE concentration also decreased to the ACL at MW-OU2-27-A in Hydraulic Zone 2. This is good news because PCE has been persistently above the ACL at this well.
 - The Upper 180-Foot Aquifer results were similar to the previous quarter. MW-OU2-55-180 was added to the list in Hydraulic Zone 6 to check for TCE because it is upgradient of MW-OU2-62-180, which has intermittent TCE concentrations above the ACL. MW-OU2-55-180 has not been sampled in years, but in the Fourth Quarter 2018 event TCE was not detected. MW-OU2-62-180 had an increase in TCE from 6.3 $\mu\text{g/L}$ in the Third Quarter 2018 to 8.0 $\mu\text{g/L}$ in the Fourth Quarter 2018.

- New monitoring well MW-OU2-83-A was profiled and the highest concentration TCE result was 0.55 micrograms per liter ($\mu\text{g/L}$). The profile results by depth were also presented.
- New OU2 extraction wells were also sampled and the results will be presented at the next BCT meeting. Preliminary data was received and the results are as expected with COC concentrations above ACLs. The Upper 180-Foot Aquifer TCE plume shape will not change much except to include the area around replacement extraction well EW-OU2-02-180R where the TCE concentration was above the ACL in the Fourth Quarter 2018.

b. Treated Water Reuse – No treated water was used in December.

c. Groundwater Treatment Plant Relocation – Construction of the new OU2 GWTP is in progress. The following items were discussed:

- The new OU2 GWTP is operating. Most wells are online and some wells are still offline for pump replacement and wiring, including EW-OU2-05-A, EW-OU2-06-A, and EW-OU2-09-A.
- The 1st 21-day operation period has not begun yet. There are still some testing items to complete, including perturbation testing and emergency shutdown procedures, as well as capacity testing at injection wells IW-OU2-04-180 and IW-OU2-05-180. It is expected the 21-day period will begin within a couple weeks.

d. Landfills Operations and Maintenance (O&M) – The handout titled “Former Fort Ord Operable Unit 2 Landfills Data and Status” was reviewed. Additional discussion included:

- The quarterly Monterey County inspection was conducted December 11, 2018 and there were no issues.
- A photograph was presented of the Area E stockpile of trench spoils from the Marina Coast Water District recycled water pipeline project. The soil will be used as clean cover for the Impact Area debris that will be brought to the Landfills later this month.
- Thermal Treatment Unit (TTU) operations have been normal. The influent methane concentration has an overall declining trend.
- There have been a few recent rain events and no erosion issues have been identified. The winterization preparation best management practices have been holding up.

5. Sites 2 and 12 (Sites 2/12)

The handout titled “Former Fort Ord Sites 2 and 12 Data and Status” was reviewed. Additional discussion included:

- The Sites 2/12 GWTP is operating during business hours only during the since October. Because SCADA was linked to the OU2 GWTP, the Sites 2/12 GWTP would not be able to send out alarms, and the operator cannot remotely view the operations. Once the SCADA is linked to the new OU2 GWTP, the Sites 2/12 GWTP can go online full time. Ahtna is working with the JV to reconnect Sites 2/12 SCADA. The soil vapor treatment unit (SVTU) is not affected by this issue and is operational full time as normal.
- Some preliminary Fourth Quarter 2018 GWMP event data was presented. MW-12-20-180U had an increase in PCE from 7.7 $\mu\text{g/L}$ to 20.0 $\mu\text{g/L}$, which is not the maximum PCE concentration for this well and it will not change the size of the PCE plume footprint. Extraction well EW-12-08-180U also had an increase in PCE from 12.3 $\mu\text{g/L}$ to 18.2 $\mu\text{g/L}$. Once the Sites 2/12 GWTP is operational full time again, it is expected that concentrations will decrease again.

6. Operable Unit Carbon Tetrachloride Plume (OUCTP)

a. Groundwater Remedy/Monitoring –

The handout titled “Former Fort Ord Operable Unit Carbon Tetrachloride Plume Data and Status” was reviewed. Additional discussion included:

- Treatment is no longer needed at OUCTP EISB Deployment Area 3A, and the treatment system is being decommissioned this week. Work in the Fort Ord Natural Reserve will be finished this month to avoid habitat issues. Afterwards, groundwater monitoring well and soil gas probe decommissioning in Deployment Areas 1A and 1B will be completed.
- New well MW-BW-94-A did not recharge properly upon installation and is not a viable well. This month a replacement well MW-BW-94-AR will be installed nearby.
- The Fourth Quarter 2018 Groundwater Monitoring was conducted in December and preliminary results for some wells were received. Results for newly installed monitoring wells were discussed:
 - MW-BW-93-A had a detection of carbon tetrachloride (CT) below the aquifer cleanup level (ACL).
 - MW-BW-95-A had a CT detection above the ACL which will expand the plume to the north.
 - CT was not detected in the two Upper 180-Foot Aquifer wells.
 - Lower 180-Foot Aquifer well MW-BW-59-180 had a TCE detection of 8.6 µg/L, though TCE is not a COC for this aquifer.
- In EISB Deployment Area 3A, the CT concentration at MW-BW-87-A increased above the ACL; however, it will not change the plume much. MW-BW-87-A is downgradient of MW-BW-91-A, where there has been a “tongue” of CT above the ACL in the middle of EISB Deployment Area 3A in an area that did not receive sodium lactate substrate.
- The CT concentration in downgradient monitoring well MW-BW-65-A increased above the ACL, though it does not change the plume shape much.

7. Basewide Range Assessment (BRA) and Lead Evaluation Status

The handout titled “BRA and Lead Evaluation Status” was reviewed. Additional discussion included:

a. Basewide Range Assessment (BRA) –

- The Draft Final Tech Memo for Units 1, 2, 7, 10, 33, and Watkins Gate Burn Area is in progress.
- DTSC comments on the Draft Sampling Results Report for Units 25 and 28 were received and responses to comments are in progress. There were no comments on the Sampling Results Report for Unit 31 and the report will be issued as final.
- The comprehensive BRA Report is in progress.
- The site reconnaissance in BLM Area B accessible areas was completed in December and the report is in progress with a description of the findings.

b. Lead Evaluation at HA 18D and HA 23D –

- A revised Final Technical Memorandum was submitted.
- An e-mail was in December sent to DTSC to discuss the cleanup level for the Explanation of Significant Differences (ESD). A follow-up request will be sent. It is suggested that an ESD will be used to capture the new lead cleanup level based on the promulgated new toxicity data. The Lead Spread model will be discussed including a few changes from the recommended parameters. Kim Gettmann with DTSC stated the model parameters are from Office of Environmental Health Hazard Assessment (OEHHA) and will confirm with them the changes before work on the ESD begins.

c. Erosion Control –

- Site 39 and HAs are being monitored for erosion issues.

d. Landfills Soil Management –

- Nothing was discussed.

e. Habitat Restoration – The handout titled “Site 39 Inland Ranges Habitat Restoration Status Update” was reviewed. Additional discussion included:

- Planting season is half way completed and was started in December. Planting was completed at HA 26. Planting is in progress at HA 34 and will be completed by the end of January. Planting will be conducted at HA 28 in late January and early February. Planting in various HAs in areas to diversify the current population will be completed in February.
- Minor erosion control was conducted last week in HA 34 planting areas.
- Plant grown by cuttings were tested in December for pathogen and the test results were negative. A positive pathogen test result would show a ring around the pear fruit where it sat in the water of from the plant.

8. FFA Schedule

Status Update – The Federal Facility Agreement (FFA) schedule is provided to the agencies with the upcoming primary documents with the month the Draft and Draft Final versions will be issued. Draft versions have a 60-day review period and Draft Final versions have a 30-day review period. There are no primary documents currently.

Document Schedule – The handout titled “9 January 2019 HTW BCT Deliverable Schedule” was reviewed and near-term documents were identified. The Well Installation Completion Report was pushed back to March to include the replacement well MW-BW-94-AR. The Landfill Quality Assurance Project Plan (QAPP) Fort Ord Community Advisory Group (FOCAG) response to comments are pending approval from the EPA, but Maeve Clancy is not working due to the partial government shutdown.

9. Action Items

The handout titled “HTW BCT 2019 Action Items” was reviewed. For action item #2 for the partial deletion of former Fort Ord sites from the NPL, USACE is working on the list and once completed will send to Bill Collins. FORA, ESCA, and the regulatory agencies will be given a chance to comment on the list which will be overlaid with munitions sites.

10. Calendar Update

The calendar was reviewed for upcoming HTW BCT meeting dates and there were no changes nor additions.