



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



**Meeting Minutes
November 14, 2018**

BRAC Conference Room
Former Fort Ord, California

Agenda

Reference the handout titled "HTW BRAC Cleanup Team Meeting Agenda, Wednesday, November 14, 2018 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
Clancy	Maeve	U.S. Environmental Protection Agency (USEPA)	X
Collins	Bill	U.S. Army Base Realignment and Closure (BRAC), Fort Ord Office	
Crane	Steve	KEMRON Environmental Services (KEMRON)	X
Dillon	Holly	Ahtna Environmental, Inc. (Ahtna)	
Fenton	Jeff	Wood Environment & Infrastructure Solutions, Inc. (wood.)	X
Floyd	Bridget	U.S. Army Corps of Engineers (USACE)	
Gettmann	Kimberly	DTSC	X
Ghigliotto	Tom	Chenega supporting BRAC	
Kan	Alex	USACE	X
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
Stiebel	Cary	Chenega supporting BRAC	
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 August 2018.

3. Community Outreach Update

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

- The February 2, 2019 Community Involvement Mobile Workshop will include discussions of the Landfill, soil and groundwater cleanup, the new Operable Unit 2 (OU2) groundwater treatment plant (GWTP).
- A tour of the new OU2 GWTP will be held for the regulatory agencies after the January or February 2019 HTW BCT meeting.

5. 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 OU2 GWTP began October 12, 2018 and the power at the existing OU2 GWTP was cut at 8:03 am. The new OU2 GWTP statistics will be reported once it is online.
- The Draft 2019 Well Decommissioning Work Plan will be issued soon.
- Third Quarter 2018 data and maps were presented and are similar to the previous quarter.
 - Based on QAPP decision criteria, the sampling frequency for MW-BW-50-A is proposed to be increased from annual to quarterly due to an increase in tetrachloroethene (PCE) concentrations above the aquifer cleanup level (ACL).
 - New monitoring well MW-OU2-83-A will be sampled in the Fourth Quarter 2018.
 - Amber Sellinger with the CCRWQCB noted that Upper 180-Foot Aquifer monitoring well MW-OU2-62-180 has trichloroethene (TCE) above the ACL but the well is not within the contour drawn to represent areas with TCE above the ACL. Historically there has been no contour around MW-OU2-62-180 because there are no nearby groundwater wells with TCE above the ACL. However, this will be investigated further. Amber also suggested adding groundwater elevation contours to the map, and adding MW-OU2-62-180 data to the results table in the handout. Overall, the TCE trend at MW-OU2-62-180 is increasing.

b. Treated Water Reuse – No treated water was used in October. Because the existing OU2 GWTP was shut down, no additional treated water will be used in 2018.

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

- The transition period activities are on schedule, this the 5th week of the transition period.
- The 5-day continuous operation period will begin November 20, 2018.
- The GAC vessels were filled on November 6, 2018. Potable water was used to backwash the GAC vessels and the water was discharged to the OU2 Landfills Area E v-ditch.
- On November 17, 2018 EW-OU2-06-180 and EW-OU2-16-A will be operated shortly to collect an OU2 GWTP effluent sample with a 24 hour turnaround time. If all COCs are not detected at the effluent, the water will be discharged to the injection wells. Afterwards, the eastern network extraction wells will be operated and an effluent sample collected with the same process.

- A tour of the OU2 GWTP will be conducted for the regulatory agencies after the January or February HTW BCT meeting.

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 Iso-Settlement Map was updated photogrammetrically in August and the draft report will be issued soon. The map for Area F was provided in the handout and it was noted that the yellow areas indicate the location of waste trenches, which only represent a 1 to 2-foot change in elevation since the last topographic map was prepared in 1998, which is not significant settlement in the past 20 years. The settlement areas line up with parallel trenches of decomposed refuse.
- The owl nest boxes were cleaned out for annual maintenance in October and it was noted that at least three boxes were occupied and the amount of material in the occupied boxes had heavy debris. The occupied boxes were cleaned at night time while the owls were hunting so they would not be disturbed.
- Winterization activities were performed including installing best management practices (BMPs) on the perimeter roads on the north side of OU2 Landfills Area F.
- The Fourth Quarter 2018 landfill gas monitoring event will begin November 19, 2018.
- The thermal treatment unit (TTU) influent methane percentage dropped last month because the TTU was operated for an extended time to make up for lost operational time during JV construction activities. Recently the TTU influent methane concentration increased to the normal range due to an adjustment to the operational time.

6. 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 OU2 transition period 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 new OU2 GWTP is online and the SCADA is reconnected, the Sites 2/12 GWTP can go online full time. The soil vapor treatment unit (SVTU) is not affected by this issue and is operational full time as normal.
- The existing OU2 GWTP was shut down for the transition period on October 12, and Sites 2/12 was shut down on Friday October 12 to remain offline over the weekend. On Monday, October 15, treated water was found in the Sites 2/12 GWTP berm area because one of the extraction wells did not shut down properly on October 12 and continued to operate over the weekend. This water was processed through the GWTP again after it was brought back online.
- Third Quarter 2018 data was presented along with a map. The data are similar to the previous quarter with one exception: the concentration of PCE at MW-12-20-180U increased above the ACL, but is still consistent with historical results and does not change the size of the PCE groundwater plume.
- Per QAPP decision criteria, three wells are proposed for schedule changes. Two wells to be reduced to annual sampling (MW-12-25-180U and MW-12-31-180M), and one well to be removed from sampling (MW-12-19-180U) due to low COC concentrations. Min Wu with DTSC noted that MW-12-19-180U is on the north side of the plume area, but per QAPP decision criteria it is ok to be removed. The agencies will let the Army know if there are any issues with the proposed changes before the December 10 Fourth Quarter 2018 event.

7. 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:

- Newly installed monitoring well MW-BW-94-A, located east of the groundwater divide and north of the carbon tetrachloride (CT) plume, has insufficient water. The water level is expected to be about 65 feet below ground surface (bgs); however, the water level is at 120 feet bgs. There was no change in the water level despite aggressive development methods. The well will be decommissioned and replaced in January 2019.
- The OUCTP EISB Deployment Area 3A treatment system will be decommissioned in January including removal of the CONEX, above ground piping and components, and extraction well pumps and injection well drop pipes. Old soil gas probes and groundwater wells in EISB Deployment Areas 1A and 1B will be decommissioned in January and February. A driller will decommission groundwater wells in the Preston Park athletic fields, and then a construction contractor will remove the vaults and repair the surface to match surrounding conditions. Underground pipes in the 1A and 1B areas will be left in place.
- Third Quarter 2018 data and maps were presented and are similar to the previous quarter with minor exceptions:
 - The A-Aquifer in the City of Marina had a few wells with concentrations of CT above the ACL, so there is a defined plume again in that area. The historical maximum extent of the CT plume from December 2001 was compared to the September 2018 plume.
 - The CT concentration in Upper 180-Foot Aquifer well MW-OU2-67-180 decreased from above the CT ACL to non-detect. The northern CT plume is consistent, but the southern plume is not shown because MW-OU2-64-180 is the only well above the CT ACL. Two new wells were installed north and northeast of MW-OU2-64-180 and will be sampled in the fourth quarter event.
 - TCE was detected in Lower 180-Foot Aquifer well MW-OU2-82-180 at a concentration above the maximum contaminant level (MCL) of 5.0 µg/L. One new well was installed to the west and will be sampled in the fourth quarter event.
 - Several wells are proposed for groundwater sample schedule changes, including four A-Aquifer wells (two removed from the sampling program, one decreased to annual, and one increased to quarterly), three Upper 180-Foot Aquifer wells to be removed from the sampling program, and four Lower 180-Foot Aquifer wells to be removed from the sampling program as listed in the handout. The agencies will respond by e-mail before the December 10 Fourth Quarter 2018 event if there are any issues.
- MCWD requested additional sample collection and analysis for the Fourth Quarter 2018 event, including total dissolved solids (TDS). Samples for TDS analysis cannot be collected with passive diffusion bags (PDBs), which are used for collecting samples from monitoring well for VOC analysis during the quarterly events. TDS samples could be collected with a HydraSleeve from the monitoring wells, but it would involve a few extra steps for the sampling crews. If the sampling was done at 120 well locations it would take a lot of extra time. It would be better to select a handful of wells instead. Also, Westbay multi-port wells would be easier to sample for TDS. USACE told MCWD to work with Ahtna directly for a contract to perform the requested work. Another option is to give MCWD access to the wells to sample them on their own. Bill Collins is fine with helping MCWD as long as it does not cause any issues.

8. 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) –

- Additional samples at Unit 33 were collected and preliminary results were received. The proposed excavation area is being drafted.
- Unit 31 phase 1 will have another characterization since the vegetation removal is complete.
- BLM Area B site reconnaissance will be conducted the first week of December.

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

- KEMRON is working on the responses to DTSC's comments.

c. Erosion Control –

- Erosion control work to prepare for the rainy season is completed and no work is needed until rain begins.

d. Landfills Soil Management –

- The last composite sample from the MCWD soil brought to the Landfills was collected. The results will be sent to the agencies. All results indicate the soil is ok to use as cover.

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

- Seed collection is completed for a total of 28 pounds from 11 species and all targets were met as shown on the handout. The seeds were processed including drying and cleaning. Now the seeds mixes will be prepared to restore 5 acres of area in the next few weeks.
- There is a surplus of plants in the native plant nursery of 8,600 plants. Once the rain begins, the best 6,000 plants will be selected and planted. The areas to be planted are being determined.
- Plant survivorship monitoring and photo point monitoring was completed.
- The irrigation program at HA 26 was completed on October 29th. A total of 87,000 gallons of water was used and all but 4,000 was treated water from the OU2 GWTP.

9. 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 "14 November 2018 HTW BCT Deliverable Schedule" was reviewed and near-term documents were identified. Mike Weaver's comments on the PFOA/PFOS QAPP will be addressed separately since they will not affect the QAPP. The EPA will defer to DTSC and CCRWQCB on some documents and they will send an e-mail.

10. Action Items

The handout titled "HTW BCT 2018 Action Items" was reviewed. Action item #5 was done last week, Target was informed that the no additional measures were needed for their remodeling work. Action item #6, waiting for 10 to 15 buckets of bullets to be picked up at the State Parks and brought to the OU2 Landfills. There were no other changes or additions.

11. Calendar Update

The calendar was reviewed for upcoming HTW BCT meeting dates. There is no HTW BCT meeting in December. The next HTW BCT meeting was scheduled for January 9, 2019 at 1:30 pm. The tentative February 1, 2019 HTW BCT meeting at 1:30pm was confirmed.