



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

Meeting Minutes

April 10, 2019

BRAC Conference Room
Former Fort Ord, California



Agenda

Reference the handout titled "HTW BRAC Cleanup Team Meeting Agenda, Wednesday April 10, 2019 at 1:30 PM, Former Fort Ord, California."

1. Attendance

Last Name	First Name	Organization	By Phone
Balch	Duane	USACE	
Broadston	Melissa	Chenega supporting BRAC	
Canham	Haley	USACE	
Caruso	Erin	Gilbane	X
Clancy	Maeve	U.S. Environmental Protection Agency (USEPA)	
Collins	Bill	U.S. Army Base Realignment and Closure (BRAC), Fort Ord Office	
Dillon	Holly	Ahtna Environmental, Inc. (Ahtna)	
Fenton	Jeff	Wood Environment & Infrastructure Solutions, Inc. (wood.)	X
Floyd	Bridget	U.S. Army Corps of Engineers (USACE)	X
Gentry	Dana	USACE	
Gettmann	Kimberly	California Department of Toxic Substances Control (DTSC)	X
Ghigliotto	Tom	Chenega supporting BRAC	
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
Spellenberg	Rachel	Burleson Consulting	
Sterling	Steve	DTSC	X
Stiebel	Cary	Chenega supporting BRAC	
Sumner	Donald	USACE	
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 February 2019.

3. Community Outreach Update

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

- The community survey was sent to the BCT for review.
- The annual spring housekeeping letter was sent to community members Mike Weaver and LeVonne Stone asking if they would like to continue to receive and review cleanup documents. Mike Weaver responded and still wants to receive and review reports. No response yet from LeVonne Stone and response was requested by April 29. If there is no response from LeVonne, she will be removed from distribution lists and will not be sent any more reports. LeVonne has not submitted any comments since October 3, 2014. Reports continue to be available in the Administrative Record.
- A few cleanup and munitions safety presentations were conducted recently, including March 8 at the Bureau of Land Management for 40 participants, March 19 at Monterey Sunrise Rotary for 25 participants, and March 26 at Pacific Grove High School for 30 participants.
- There are a few earth day related activities that will occur, including munitions safety information booths at the April 22 California State University Monterey Bay Earth Day event, the April 25 Presidio of Monterey Earth Day event, and the May 10 Presidio of Monterey Language Day event.
- The annual guided nature walk is scheduled for May 4. So far 64 participants have signed up. The long walk has capacity for 100 participants. The dry run for the walk is scheduled for April 17 to conduct a communications check. A wildlands fire truck will be onsite for the May 4 walk just in case anybody needs emergency medical attention.

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 OU2 groundwater treatment plant (GWTP) was operable 91 percent in March, which is below the 95 percent goal. The new OU2 GWTP is still in the startup-shakedown process.
- No chemicals of concern (COCs) were detected in the March injection point of compliance sample.
- The First Quarter 2019 groundwater sampling was conducted in March, including the perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) sampling.
- Demolition of the old OU2 GWTP is in progress.
- The western network and EW-OU2-09-A remain offline.
- The preliminary First Quarter 2019 results are similar to the Fourth Quarter 2018 results.
- Preliminary PFOA/PFOS results were presented for the seven A-Aquifer monitoring wells, five Upper 180-Foot Aquifer monitoring wells, and five OU2 GWTP sample stations.
 - One monitoring well (MW-OU2-23-180) had concentrations of both PFOA and PFOS above the USEPA Health Advisory (HA) level of 0.07 micrograms per liter (µg/L). All other monitoring wells were either not detected or at concentrations below the USEPA HA.
 - One of the OU2 GWTP influent samples (TS-OU2-INF-01, the eastern influent) had detections of PFOA/PFOS at concentrations below the USEPA HA; PFOA/PFOS were not detected at all other OU2 GWTP sample stations.

- PFOA/PFOS were not detected at the monitoring wells closer to the Landfills. If the Landfills are the source of PFOA/PFOS, it has migrated downgradient. In the A-Aquifer, the monitoring wells at the outer limits of the COC plumes have PFOA/PFOS detections below the USEPA HA. In the Upper 180-Foot Aquifer, the monitoring wells in the trichloroethene (TCE) plume area have PFOA/PFOS detections, and the one monitoring well with PFOA/PFOS detections above the USEPA HA (MW-OU2-23-180) is located in the southern lobe of the TCE plume.
- The Technical Memorandum describing results of the PFOA/PFOS screening at OU2 is in progress. The Tech Memo will be issued with the Basewide Review of Fort Ord sites describing potential sources of PFOA/PFOS.
- Department of the Army guidance includes an expanded analyte list of per- and polyfluoroalkyl substances (PFAS), not just PFOA and PFOS.

b. Treated Water Reuse – No treated water was used recently. No treated water will be used at the new OU2 GWTP until after the Government accepts the GWTP from the Joint Venture (JV).

c. Groundwater Treatment Plant Relocation –

- Demolition of the old OU2 GWTP is in progress, including triple rinsing of equipment and removal of the carbon vessels.
- The new OU2 GWTP driveway was installed.
- The leak detection system requires some work before the western network can be put online.
- The fence has been installed around the new OU2 GWTP.

d. Landfills Operations and Maintenance (O&M) –

- There are lots of wildflowers on the Landfills vegetative cover.
- Some erosion occurred in Areas E and F. The erosion will be repaired once the winter season is over.
- The quarterly Monterey County inspection was completed in March and there were no issues.
- The thermal treatment unit (TTU) has been operating normally.
- Methane concentrations at the TTU influent have been consistent recently.

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 soil vapor treatment unit (SVTU) is offline for a rebound study.
- The Sites 2/12 GWTP was online 69 percent of the time in March, which is less than the 95 percent goal. Downtime at Sites 2/12 was related to a leak in an effluent pipeline that was repaired and communications issues. Communications issues were recently resolved and the Sites 2/12 GWTP has been online full time.
- No COCs were detected in the Sites 2/12 GWTP injection point of compliance sample collected in March.
- The preliminary First Quarter 2019 soil gas data were presented.
 - The First Quarter event is the first rebound study event. After the Second Quarter 2019 event, the results of the rebound study will be used to decide future SVTU operational status.
 - The First Quarter 2019 soil gas data shows tetrachloroethene (PCE) and TCE were not detected at the soil vapor extraction (SVE) wells. PCE had a slight rebound in a couple soil gas probes, but concentrations were still well below the soil gas screening levels.

- Soil gas probe SG-12-02-10, adjacent to Target, had a decrease in PCE concentrations. This probe is not within the capture area of the SVE wells because there is a stormwater infiltration basin that short circuits air flow. It is likely the decrease is due to dispersion of soil gas.
- The preliminary First Quarter 2019 groundwater monitoring data was presented. There was a decrease in PCE concentrations at Sites 2/12, especially at MW-12-20-180U, which could be related to an increase in GWTP operational time.

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:

- Follow-up biological monitoring will be scheduled once plants are at peak flowering; plant status is currently being monitored.
- The First Quarter 2019 groundwater monitoring event was completed. Preliminary data was presented.
 - Enhanced in situ bioremediation (EISB) Deployment Area 3A:
 - There was a slight increase in carbon tetrachloride (CT) concentrations in the First Quarter 2019 at EW-BW-160-A at the deepest profiled sampling station (CT was not detected at all other sampling stations in this well). This well is located in the northern part of the deployment area.
 - Two monitoring wells in the middle of the deployment area also had a slight increases in CT concentrations.
 - CT concentrations at one well (EW-BW-166-A) decreased to non-detect and CT was not detected at all profiled sampling stations in this well.
 - The Fourth Quarter 2018 event at EISB Deployment Area 3A was the last long-term monitoring event for EISB and wells in the deployment area will now be monitored as part of the normal quarterly groundwater monitoring program.
 - The A-Aquifer concentrations are similar to the previous quarter with some exceptions. CT concentrations at MW-BW-24-A decreased to non-detect. Replacement well MW-BW-94AR was sampled for the first time and profile results show CT was not detected at the shallow sampling stations, but CT concentrations were just above the ACL in the deeper stations. MW-BW-94-AR replaced MW-BW-94-A, which was installed above the Salinas Valley Aquitard (SVA), but was unfortunately a dry well.
 - Upper 180-Footer Aquifer multi-port well MP-BW-16-170 had an abnormal increase in CT concentration. The sampling and analysis procedures will be reviewed and validated to confirm there were no issues. This is the most upgradient well that defines the CT plume and the Second Quarter 2019 result is the new historic maximum for this location.
 - Lower 180-Footer Aquifer well MW-BW-59-180 had a TCE concentration that was similar to the previous quarter.

b. TCE in the Lower 180-Footer Aquifer–

The handout titled “Former Fort Ord Lower 180-Footer Aquifer” was reviewed. Additional discussion included:

- This is a new topic based on the March HTW BCT meeting discussion with the CCRWQCB about detected TCE concentrations in the Lower 180-Footer Aquifer. There is no Lower 180-Footer Aquifer remedy described in the OU2 Record of Decision (ROD) and TCE is not a COC identified in the OUCTP ROD for the Lower 180-Footer Aquifer.

- As requested by the CCRWQCB, a list of A-Aquifer, Upper 180-Foot Aquifer, Lower 180-Foot Aquifer, and 400-Foot Aquifer wells was presented with recent TCE data, including a figure showing the TCE data on a map.
- MW-OU2-44-A and MW-OU2-81-A are in the central TCE A-Aquifer plume area.
- Some wells have rotating sample depths. Sampling station depths are determined based on highest COC concentrations observed during profiling.
- Most TCE concentrations are close to the ACL except at MW-OU2-81-A, MW-OU2-44-180, and MW-OU2-62-180, which have TCE concentrations that are an order of magnitude above the ACL.
- 400-Foot Aquifer well MW-OU2-28-400 has not been sampled recently, and will be profiled in the Second Quarter 2019 event.

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) –

- Units 1, 2, 3, 7, 10, 33, and Watkins Gate Burn Area draft final sampling report back check comments are in progress.
- Units 25 and 28 draft final sampling results report was submitted and revised responses for Fort Ord Community Advisory Group (FOCAG) comments are in progress.
- The Comprehensive BRA Report is in progress.
- Army comments on the Site Reconnaissance BLM Area B Report were received.

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

Still looking to meet with DTSC in the near future to discuss the cleanup value so the ESD can be prepared for the various RODs that are involved.

Kim Gettmann (DTSC) has not been able to meet with the Office of Environmental Health Hazard Assessment (OEHHA). She has reached out to them, but they are still looking at it. They have not set a time to meet yet because they are waiting for OEHHA to come up with their conclusions and recommendations. Once DTSC knows something they will provide an update.

Bill Collins (Fort Ord BRAC) added that, under the ESCA, FORA is preparing documentation for the transfer of the property that includes HA 18D and HA 23D. That transfer will identify any use restrictions related to munitions. However, the Army is also in the process of contracting a surveyor to survey out the portions of HA 18D and HA 23D requiring remediation so when the Army modifies the deed for the property the residential use restriction will remain until such time remediation is complete. This is going on concurrently with the FORA property disposal process.

c. Erosion Control –

Erosion best management practices (BMPs) are holding up well. Making a list of summer activities for erosion control in preparation for the next rainy season.

d. Landfills Soil Management –

Building demolition activities are completed. The iron triangle cleanup and Landfills placement is in progress.

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

- All HAs are being monitored for any erosion repair needs. Minor repairs were made at HAs 28, 29, and 34. The rain has slowed recently.
- Nursery propagation continues and is on track to meet the approximately 3,500 plant target for the 2019-2020 planting season.
- The final 2018 Annual Habitat Restoration Report was submitted.
- On March 27 the annual habitat meeting was held. Year 5 benchmark is meeting all criteria. Challenges at HA 27A may require a re-evaluation of success criteria.
- HMP Annual monitoring began on April 8.

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 “10 April 2019 HTW BCT Deliverable Schedule” was reviewed and near-term documents were identified.

9. Action Items

The handout titled “HTW BCT 2019 Action Items” was reviewed. Additional discussion included:

- For action item #2, National Priorities List (NPL) deletion was discussed at the munition response (MR) BCT meeting. Maeve Clancy with the USEPA said that issues concerning the emerging contaminants PFOA/PFOS and TCE in Lower 180-Foot Aquifer would be taken into account for potential sites and there may need to be adjustments. The preliminary draft PFOA/PFOS basewide review report is scheduled to be issued in May and the draft report in June. Sites impacted by groundwater are not a part of the deletion. HAs 18D and 23D are not included in the deletion.
- For action item #5, Kim Gettmann with DTSC gave an update. The ESD is on hold based on lead cleanup discussions between DTSC and OEHAA, which are ongoing.
- For action item #6, proposed new monitoring frequency of EISB Deployment Area 3A wells has been implemented. This item will be removed from the action items list.

10. Calendar Update

The guided nature walk is scheduled for May 4 at 10:00am. The May HTW BCT meeting is scheduled for May 15 at 1:30 pm. The June HTW BCT meeting is scheduled for June 19 at 1:30pm. The July HTW BCT meeting is scheduled for July 12 at 1:30pm. The CIW is scheduled for July 13.