Final
HTW BCT
Meeting Minutes
October 22, 2020
Teleconference Meeting

Agenda
Reference the handout titled "HTW BRAC Cleanup Team Meeting Agenda, Thursday, October 22, 2020, at 1:30 PM, Former Fort Ord, California."

1. Attendance

Last Name	First Name	Organization	By Phone
Anderson	Thor	Burleson Consulting	x
Balch	Duane	U.S. Army Corps of Engineers (USACE)	x
Broadston	Melissa	Chenega for BRAC	x
Clancy	Maeve	U.S. Environmental Protection Agency (USEPA)	x
Collins	Bill	U.S. Army BRAC, Fort Ord Office	x
Dillon	Holly	Ahtna Global, LLC (Ahtna)	x
Gentry	Dana	USACE	x
Gettmann	Kimberly	California Department of Toxic Substances Control (DTSC)	x
Ginorio	Amber	USACE	x
Jelenek	Zachary	USACE	x
Kochman	Aaron	Chenega for BRAC	x
Kosowski	Sylvester	Ahtna	x
Kowalski	Bart	Chenega for BRAC	x
Lieberman	Derek	Ahtna	x
Meakes	Charity	USACE	x
Savage	Tom	USACE	x
Soderberg	Sheila	California Regional Water Quality Control Board, Central Coast Region (CCRWQCB)	x
Wu	Min	DTSC	x
Valdez	Val	Chenega for BRAC	x

2. BCT Minutes Status
HTW BCT meeting minutes are final through July.

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

- The Annual Report was completed and was sent to over 65,000 households including areas in the former Fort Ord and surrounding communities.
- The Fort Ord Cleanup website news section was updated to include several articles.

- Responded to community member comments regarding cleanup activities.
- The Technical Review Committee (TRC) is scheduled for February 11, 2010 and will be focused on soil and groundwater cleanup topics. With consideration of potential COVID restrictions, this meeting will be a conference call. Additionally, there is no Community Involvement Workshop (CIW) scheduled.
- A possible 2021 community involvement activity is a nature walk with social distancing and masks with a maximum of 20 participants. There could be several nature walks to accommodate demand.

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 handout covers activities from July through September. The OU2 groundwater treatment plant (GWTP) was online most of the time, with good operability in August and September and lower operability in July.
- Injection point-of-compliance sample results from July and August had low-level detections of chemicals of concern (COCs) below discharge limits. The first granular activated carbon (GAC) change-out occurred at the new OU2 GWTP in September. Everything went well, and afterward COCs were not detected (ND) in the injection sample.
- There was a GWTP shut down in July for the RORE Innovative Solutions Joint Venture (JV) work to install an isolation valve at the western extraction well network. The GWTP shut down in August due to an electrical storm and subsequent power outages. The GWTP had minor shutdowns in September due to communications issues and the replacement of a leaking gasket.
- In September extraction well EW-OU2-12-180 was video logged. Earlier in the year, the pump failed and fines were found in the well casing, indicating a possible failed well casing and/or screen. The video log did not show evidence of a failed well casing and/or screen. Mud was seen caked on the inside of the well screen. It is suspected there may have been a failure in either the sounding tube or the sand tube, both located in the same borehole. Well construction details are being investigated for further information. The next step will be attempting aggressive redevelopment.
- Planned future activities include repairing a failed effluent pump, installing a transducer at EW-OU2-06-A, and installing a variable frequency drive (VFD) at EW-OU2-09-A. The Sea Haven development contractors are planning to adjust/replace monitoring wells but the schedule is not known at this time. The Dunes at Monterey Bay development contractors are planning on re-alignment of the OU2 Southwest Infiltration Gallery underground pipeline, but the work is not yet scheduled.
- The Third Quarter 2020 Groundwater Monitoring event was completed in September. Preliminary data were shared and compared to previous events.
    - In general, A-Aquifer and Upper 180-Foot Aquifer Third Quarter concentrations are similar to previous events.
    - MW-OU2-06-AR in Sea Haven downgradient of the eastern extraction well network had a modest increase in COC concentrations.
    - MW-OU2-08-A COC concentrations started increasing in 2015 and indicated the COC plumes migrated north of the eastern extraction well network.
    - MW-OU2-75-A defines the northeastern extent of the plumes in the A-Aquifer.

- MW-OU2-62-180 is upgradient of the discontinuity in the Intermediate 180-Foot Aquitard and has had seasonal increases and decreases in trichloroethene (TCE) concentrations. The downgradient Lower 180-Foot Aquifer well MW-BW-59-180 will be discussed in the OUCTP section.
- The Second Quarter 2020 COC contour maps for OU2 were shared, and the Second Quarter 2020 report for OU2 will be issued within the next two weeks.

b. Treated Water Reuse – No treated water was used recently. The access point for treated water is installed and treated water may be used. There is not much need for treated water at this time. Previously have used for irrigation at HA 26, but no longer needed.

c. Groundwater Treatment Plant Relocation – The JV worked on the western network connection and leak detection system. Before work can continue, Ahtna will need to install a transducer at EW-OU2-06-A. Afterward, the western network and new OU2 GWTP project will be completed. Final as-builts will be submitted once it is completed.

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:

- In September, the Third Quarter inspection with Monterey County Health Department was conducted and no issues were identified.
- The Third Quarter perimeter probe monitoring was conducted and the results were all acceptable per Title 27 California Code of Regulations.
- Erosion mitigation is in progress on the perimeter roads.
- The owl nest boxes are inspected and cleaned annually, which will begin next week.
- Over the last few weeks the methane concentration at the thermal treatment unit (TTU) influent and adjustments will be made to lower the operational time period from the current 70 hours every other week.

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 handout covers activities from July through September. The Sites 2/12 GWTP was online most of the time, with good operability in July and September and some down time in August. In August, electrical storms caused power outages and damage to the Sites 2/12 GWTP injection pump and air stripper blower VFDs. The VFDs were replaced on August 18. However, the Sites 2/12 GWTP was kept offline as a precautionary measure during Pacific Gas and Electric (PG&E) rolling blackouts to prevent further equipment damage. The Sites 2/12 GWTP was restarted on August 19.
- Injection sample results from August had low-level detections of COCs below discharge limits.
- The Soil Vapor Treatment Unit (SVTU) was offline since June 16, 2020 due to moisture accumulation in the vapor-phase GAC vessels creating blower backpressure. The SVTU remains offline due to low soil gas COC concentrations below the soil gas cleanup levels (SGCLs).
- The Third Quarter 2020 soil gas monitoring event was conducted. Some annual soil gas probes were missed and were sampled in October. Soil gas results for the last few quarters were presented, including the available preliminary Third Quarter 2020 data.
    - Soil gas probe cluster SG-12-04 had TCE above the SGCL in the First Quarter 2020, triggering the restart of the SVTU. By the Second Quarter 2020, TCE concentrations dropped below the SGCL. There was an increase in the Third Quarter 2020, but still below the SGCL. Soil gas will continue to be monitored at this location.

  - Soil gas probe cluster SG-12-01 COC concentrations also increased in the Third Quarter 2020 but are still well below SGCLs.
  - Soil gas probe cluster SG-12-02 in front of Target has cyclical COC concentrations, with the peak concentrations during Third Quarter events. This probe is located outside the SVTU radius of influence on the other side of the stormwater infiltration basin.
- The Third Quarter 2020 groundwater monitoring was conducted. Groundwater data for the last four quarters were presented, including preliminary Third Quarter data. Previously, two wells defined the PCE groundwater plume: EW-12-08-180U and MW-12-20-180U. The last time PCE was above the ACL at MW-12-20-180U was in the Fourth Quarter 2019. Currently, the PCE groundwater plume is only defined by operating extraction well EW-12-08-180U.
  - The trend for EW-12-08-180U is decreasing overall. The PCE concentration is cyclical but used to range between 10 micrograms per liter (µg/L) and 20 µg/L. In the First Quarter 2020, the PCE concentration was below 10 µg/L.
  - MW-12-20-180U PCE concentrations have been declining overall since 2016.
- The Second Quarter 2020 COC contour maps for Sites 2/12 groundwater and soil gas were shared, and the Second Quarter 2020 report for Sites 2/12 will be issued within the next two weeks.

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. The Third Quarter 2020 groundwater monitoring was completed. The preliminary data were presented in comparison to previous events.

- Concentrations have been overall consistent over the past few quarters, with a few exceptions.
- MW-BW-49-A and MW-BW-65-A in Hydraulic Zone 5 downgradient of the Pilot Study area had a decline in carbon tetrachloride (CT) below the ACL.
- Some wells in the Hydraulic Zone 5 area were added back into the quarterly groundwater monitoring program, and one MW-BW-82-A has elevated CT concentrations above the ACL.
- MW-BW-26-A Enhanced In Situ Bioremediation (EISB) Deployment Area 2A has had persistent CT concentrations above the ACL since EISB treatment was completed in 2011. Additional wells EW-BW-129-A and EW-BW-140-A were added to the quarterly monitoring program and CT was above the ACL at EW-BW-129-A.
- MW-BW-75-A in Hydraulic Zone 5 has had an increasing CT trend above the ACL since 2018.
- MW-BW-31-A in Hydraulic Zone 4 had recently lower concentrations below the ACL.
- MP-BW-46-170 defines the upgradient extent of Upper 180-Foot Aquifer CT plume and persistent CT concentrations above the ACL.
- MW-OU2-64-180 is in Hydraulic Zone 6 in the Upper 180-Foot Aquifer downgradient area and has consistent CT concentrations above the ACL.
- The supply wells remain below ACLs.
- MP-BW-49-316 has a seasonal CT trend with consistent concentrations above the ACL.
- MW-BW-59-180 downgradient of MW-OU2-62-180 still has elevated TCE concentrations above the ACL.
- The Second Quarter 2020 COC contour maps for OUCTP were shared, and the Second Quarter 2020 report for OUCTP will be issued within the next two weeks.

b. TCE in the Lower 180-Foot Aquifer – MW-BW-59-180 was installed in 2018 and has had consistent TCE concentrations above the ACL. The well is located in the area downgradient of the suspected gap in the

Intermediate 180-Foot Aquitard, east of MW-OU2-62-180, allowing migration of TCE from the Upper 180-Foot Aquifer to the Lower 180-Foot Aquifer

7. Per- and Polyfluoroalkyl Substances (PFAS)

There was no handout for PFAS. Discussion included:

- Work has started on the PFAS Preliminary Assessment (PA). A site file search is being conducted as the first step for the PA. The PA will follow a site review process similar to the PFOA/PFOS Technical Summary Report, including closing the loop on a lot of the original 50 sites (first phase) and review of 32 sites at the former Fort Ord as agreed between the Army and the regulatory agencies (second phase). The PA will build on what was presented in the PFOA/PFOS Technical Summary Report, with additional information included according to USEPA's PA guidance. Site reconnaissance (third phase) for the sites is being evaluated including an assessment of potential receptors and a comprehensive market survey. The PA will present recommendations for additional investigation and the Draft report is scheduled to be issued next summer.
- Maeve Clancy will send example PAs from other sites to Derek Lieberman. There might be more example PA sites coming soon also. It is not required to follow the example PAs, but it is helpful to see what else is out there.

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

There was no handout for the BRA and Lead Evaluation Status. KEMRON-Gilbane are no longer contracted, and USACE took over the BRA and Lead Evaluation tasks. Discussion included:

a. BRA –
The Comprehensive BRA Report's Draft Template is being reviewed for the next few weeks. The schedule is to finalize the report before the new munitions contract begins.

b. Lead Evaluation at HA 18D and HA 23D –
Kim Gettmann of DTSC gave an update on the LeadSpread model. The internal review of the model was completed. The model and the user guide will be posted on the website before the end of the calendar year. The Army requested some changes to the model parameters and a formal DTSC response will be issued next week. The response will include concurrence with changes to the model parameters for skin surface area, child soil ingestion, and breathing/inhalation rate. All other model parameters were all reviewed and a few more will be updated accordingly including bio-availability and lead toxicity.

c. Erosion Control –
Fieldwork is completed. Item not discussed.

d. Habitat Restoration – The handout titled "Site 39 Inland Ranges Habitat Restoration Status Update" was reviewed, additional discussion included:

- This month in October, plant survivorship monitoring began at Historic Areas (HAs) 26, 28, 34, 37, and 44. Plant survivorship monitoring is conducted at 10 percent of all shrubs within the first three years of planting. Each shrub is measured for width and height and noted if it is alive or dead. There is good growth observed at irrigation site HA 26.
- Propagation of 7,046 plants has continued, with the current inventory over 8,000 plants. All species targets were met except one. The pathogen pear tests were all negative at the nursery.
- On August 21, the 7,700 plants were evacuated from the nursery due to the Carmel and River fire. The plants were moved to the former KEMRON yard on Joe Lloyd Way. The evacuation required 21 trips, with 15 people working for 6 hours. Once the fire season is over, the plants will be moved back to the nursery. The nursery is a better setup for the plants to use all the

pathogen prevention best management practices (BMPs), and it is easier to maintain irrigation at the nursery.

- Seed collection was completed for all species. All targets were met and the missed target last year for Sky Lupine was met. The seed mixes will be prepared for the broadcast at the HAs.
- The production seed plots have produced a large amount of deerweed seed. The nursery will re-establish a purple needle grass seed production plot in the next couple weeks. There was better than expected production of deerweed.
- Minor erosion control activities were conducted at HAs 28, 34, and 36. Erosion control activities included replacing approximately 70 worn out wattles, seeding, straw broadcasting, and rill collapsing. Most HAs are stable with no major erosion issues.
- HA 26 irrigation at HA 26 has completed 8 out of 10 events, each with 9,000 gallons per event, or 2-3 gallons per plant for 3,500 plants with emitters. The 9th event will be completed next week and the final one in November. The irrigation system is maintained during each event; lines were repaired that were clogged with sediment or damaged from coyote chewing. The PVC lines were painted white to protect them from UV rays. The water supply company will only use potable water in their water truck and cannot use the OU2 treated water. Next year arrangements will be made to use the OU2 treated water instead.

9. Federal Facility Agreement (FFA) Schedule

a. Status Update – The 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.

b. Document Schedule – The handout titled "22 Oct 2020 BCT Deliverable Schedule" was reviewed, and near-term documents were identified.

- The Draft Landfill Quality Assurance Project Plan (QAPP) will be issued next month.
- The Draft Groundwater QAPP will be issued next week.
- The Final Second Quarter 2020 Groundwater reports will be issued next week.
- The Third Quarter 2019 Annual groundwater reports are being finalized in the next couple months.
- The National Priorities List Partial Deletion Remedial Action Summary Report was issued Final on July 2, and additional figures were submitted on October 2 and all submitted to USEPA headquarters on October 9. The sites with PFAS issues could not be included because the response is not complete under CERCLA. Deletion is proposed for Fort Ord and three other sites nationally, and the signature target date is early November. Anticipated publication in the federal register is late November, followed by a 30-day public comment period. Deletion activities at USEPA are combined for different sites and approximately three or four actions are completed each year. The soonest deletion is next May. Therefore, the final ruling on the partial deletion is scheduled to occur sometime before May 2021. USEPA would be willing to do another partial deletion at Fort Ord after PFAS is resolved in the next few years. Maeve talked to the City Manager of Marina who wanted Brownfields funding, which is something that cannot be done when the site is on the NPL, so this partial NPL deletion would help in that situation.
- Sheila Soderberg with the CCRWQCB requested that the comment response date is identified in the e-mail of report distribution so the deadline is not missed by accident.
- Maeve Clancy will let Derek Lieberman know who to send Draft reports to for review at TechLaw.

10. Action Items

The handout titled "HTW BCT 2020 Action Items" was reviewed. Action Item #1 was updated from Kim Gettmann with DTSC on the LeadSpread model. Action Item #2, the TCE in the Lower 180-Foot Aquifer will be reviewed during the next Five Year Review, and the process for the 5th Five Year Review has started because it is a long process. A few new minor action items include:

- Maeve Clancy will send PA examples to Derek Lieberman.
- Document distribution emails will now contain the comment due date.
- DTSC will send the Army responses to the LeadSpread model update letter next week.
- After the December HTW IPM meeting, check in with the regulatory agencies about the next meeting preference for January or February 2021.

11. Calendar Update

The calendar was reviewed for upcoming HTW BCT meeting dates. There is no HTW BCT meeting planned for December. The next HTW BCT meeting is scheduled for February 10, 2021 at 1:30 pm. Since this meeting is a long time away, the Army will ask the agencies if they would prefer a January meeting instead. The MR BCT tentatively selected a January meeting date for January 13, 2021.