

Post-Technical Review Committee Summary Notes
Ford Ord Environmental Cleanup
Technical Review Committee

July 9, 2009

Building 4463, Ord Military Community, CA

Facilitator: Ben Strumwasser, CirclePoint

The below listed material was provided to workshop attendees:

- An agenda
- Presentation Slides – Update Environmental Services Cooperative Agreement
- Presentation Slides – Landfill Update
- Presentation Slides – Groundwater Exit Strategies: Sites 2/12 and Operable Unit 2
- 2009 What Happens Next Calendar
- BRAC Cleanup Team Meeting Minutes
- Post-Workshop Summary Notes April 9, 2009
- Fact Sheet –Decision Logic Groundwater Exit Strategies
- Fact Sheet – Landfill Operations and Maintenance

Agenda Topics

- Update Environmental Services Cooperative Agreement
- Update: Landfill
- Presentation: Groundwater Exit Strategy

Attendees

- Ben Strumwasser, Facilitator
- Gail Youngblood, Fort Ord Base
Realignment and Closure Office
(BRAC)
- Melissa Broadston, BRAC
- David Eisen, U.S. Army Corps of
Engineers (ACE)
- Stan Cook, Fort Ord Reuse Authority
(FORA)
- Jen Moser, Shaw Environmental
- Carla Rose James, Monterey County
Water Resources Agency
- Dan Carpenter, Presidio of Monterey
Public Affairs Office
- Gage Dayton, University of
California Fort Ord Natural Reserve
- Patty Velez, California Department
of Fish and Game
- Bob Nunes, Monterey Bay Air
Pollution Control District
(MBUAPCD)
- Eva Goodman, MBUAPCD
- Jonathon Lear, Monterey Peninsula
Water Management District
- Bronwyn Feikert, Monterey County
Department of Environmental Health
- Derek Lieberman, BRAC
- Chieko Nozaki Nguyen, BRAC
- Mike Weaver, Fort Ord Community
Advisory Group
- Grant Himebaugh, California
Regional Water Quality Control
Board

Welcome and Introductions

Mr. Ben Strumwasser, facilitator for the meeting, made introductions and gave an overview of the agenda.

Summary of Community Involvement Workshop

Mr. Strumwasser provided a summary of the key issues and questions raised during the July 8, 2009 Community Involvement Workshop. There were no questions/comments from the Technical Review Committee members.

Presentation: Environmental Services Cooperative Agreement Remediation Program

Mr. Stan Cook, Program Manager for the Fort Ord Reuse Authority Environmental Services Cooperative Agreement (ESCA) Remediation Program, provided an update of this MEC cleanup project. In May, the ESCA properties were transferred to the Fort Ord Reuse Authority. As such, the ESCA safety access corridors were instituted. The Safety Access routes were developed with local emergency service providers and the Fort Ord users working group. Local law enforcement agencies are enforcing access restrictions. A map, photos and signs related to the safety access corridors were presented. Mr. Cook continued with a review of the Group Two Area activities and a review of the on-going work within the Residential Quality Assurance (RQA) Pilot Study areas. The RQA pilot study is required under the ESCA in response to Regulatory Agency concerns about future residential use at Fort Ord. The pilot study addresses a primary concern that hazardous munitions items may remain at depths greater than the capability of instrument detection. The Pilot Study tests a process designed to provide an extra layer of quality assurance for munitions remediation on proposed future residential parcels. The study will also determine the effectiveness and applicability of the RQA process for other ESCA residential properties. Mr. Cook continued the presentation with a review of the Group 2 area schedules and actions. He noted that the Final Group 2 Remedial Investigation / Feasibility Study (RI/FS) work plan is scheduled to be released on July 9, 2009. This report will review and analyze past munitions data and investigate the best options for the Group 2 area. Mr. Cook also noted that one section of the Group 2 area, County North, may be eligible for Track 1 No Further Action recommendation. He then reviewed the Track 1 plug-in process. Mr. Cook reiterated the ESCA Community Involvement and Outreach Program "ACCORD" principals.

He provided an overview of ESCA Remediation Program documents which will soon be issued. These documents will be available for community comment. The FORA ESCA team will host an information booth at the Monterey County Fair on August 15th. In addition, the next user's group meeting is scheduled for July 29, 2009 at FORA 12:00 noon to 1:00 PM. He recommended checking the ESCA information hotline (883-3506) or the new ESCA web site (www.fora-esca-rp.com) for information.

There were several questions regarding the ESCA presentation.

Ms. James asked how the munitions items in the County North area were discovered. Mr. Cook responded that they were discovered during site walk using a Schonstadt.

Mr. Nunes asked how the ESCA team determined that the munitions items in the County North area were not live. Mr. Cook responded that the on-site munitions technicians determined that these items were not live.

Presentation: Landfill Update

Jen Moser of Shaw Environmental gave an update on the Fort Ord OU2 Landfills. She began by showing the location of the landfill. She discussed the closure of Area A and the use of soils to build a foundation for the cover. The landfill is covered with an impermeable cap geomembrane that is covered by soil and vegetation. This cover geomembrane prevents rainwater infiltration through the waste to the groundwater. She noted that landfill gas is produced in all landfills when organic waste decomposes. The Army operates a landfill gas extraction and treatment system. The Fort Ord landfill gas is monitored. The monitoring is conducted with probes in and around the landfill. Ms. Moser also showed the location of these gas monitoring probes. Next, she described the on-going landfill operation and maintenance activities which include: weekly inspections, an annual inspection by professional engineers, and quarterly inspections by the Monterey County Department of Environmental Health, necessary repairs, and continued gas monitoring.

A vertical expansion has been proposed for Cell E of the landfill. This proposed expansion will incorporate soils excavated from the Site 39 ranges. The vegetation layer will be removed from a particular area of Cell E, so that these soils can be placed on top of the existing cover (geomembrane). A new, second cover geomembrane will be placed on top of this area and the new cover (geomembrane) will be welded to the existing geomembrane cover and the soils will be sealed. A new vegetation layer (clean soil) will be placed on top of this area and new vegetation will be established.

There were several questions and comments following the presentation.

Ms. Velez asked about the effect of burrowing animals on the landfill cover. Ms. Moser responded that squirrels typically create a 2 foot burrow. All burrows are inspected and repaired. There has been no damage to the landfill cover.

Ms. James asked if deep roots have an effect on the landfill cover. Mr. Collins replied that, by regular mowing, the woody/deep rooting plant do not have a chance to establish a deep root system.

Presentation: Fort Ord Groundwater Exit Strategy

Mr. Derek Lieberman gave a presentation on the Fort Ord Groundwater Remediation Exit Strategy for Sites 2 and 12 (2/12) and Operable Unit 2 (OU2). The exit strategy is a detailed plan for accomplishing site-specific objectives to reach site close-out within a defined period. To assist in the presentation, he provided key groundwater definitions. Mr. Lieberman showed “before and after” maps of the groundwater plumes to compare and demonstrate the size and configuration of the plumes before installation of the treatment systems with the size and configuration after many years of treatment. The remedy is specified in the Record of Decision; however, as groundwater treatment can be

a lengthy process, exit strategies are a method to incrementally assess the cleanup process. For Sites 2/12 and OU2, the exit strategy was developed on a performance-based environmental management methodology that consists of six steps or elements. At step one, the Army states the problem and lists the performance objectives for each groundwater treatment system. At step two, the land use risk strategy is evaluated for each treatment system to include a review of the risk from exposure to contaminated groundwater and a review of the associated land use controls used to reduce that risk. At step three, a conceptual site model is prepared for both treatment systems. Step four implements a decision logic evaluation tool, which is a method to document data used or available to make specific decisions leading to site closure. Step five is remedial process optimization, which examines performance improvement and ways to heighten efficiencies for each system. Mr. Lieberman discussed the changes instituted for each treatment system with the goal of optimizing groundwater treatment. Finally, as a part of this process, step six reexamines federal and state laws and regulations that apply to the cleanup to ensure continued compliance. Mr. Lieberman provided a summary of the exit strategy findings for both cleanup sites. He also noted that the number of years estimated to achieve Remedial Action Objectives (RAOs) are based on the current configuration of each system and is also a very conservative estimate. Treatment system closure will be supported by long term monitoring.

There were several questions and comments following the groundwater exit strategy presentation.

Mr. Dayton asked if it is possible that the OU2 and Operable Unit Carbon Tetrachloride plumes might comeingle. Mr. Lieberman replied that the Army has considered this possibility and has considered this scenario in the design for new well installations for OU2. The intent/purpose of these new OU2 wells is to capture and treat both plumes in this area of the upper 180' aquifer.

What Happens Next

The following events were noted:

August 14-15, 2009 Cleanup Information Booth at the Monterey County Fair

CSUMB Welcome Fair/ Club Showcase, September TBD

BLM Public Lands Day, September TBD

Community Involvement Workshop October 14, 2009

Technical Review Committee October 15, 2009

Open House

An informal gathering of the attendees was held. The workshop was closed.