



Final

93rd Restoration Advisory Board (RAB) Meeting Minutes FORMER MARINE CORPS AIR STATION (MCAS) TUSTIN

Meeting Location: Tustin Senior Center, Tustin, California

Meeting Date/Time: 21 September 2011, 7:00 PM – 8:15 PM

Minutes Prepared by: Mike Allen, CDM Federal Programs Corporation (CDM)

Attachments:

Presentation slides: Former MCAS Tustin Status Update for Underground Storage Tank (UST) Site 222 Final Petroleum Corrective Action Program (PCAP) and The Five-Year Review Update, Former MCAS Tustin Installation Restoration Program (IRP) Sites 1, 3, 12, and 13S.

The RAB mailer packet and copies of slides were available on the table outside the meeting room.

WELCOME/INTRODUCTIONS/AGENDA REVIEW:

Mr. Jim Callian, the Base Realignment and Closure (BRAC) Environmental Coordinator (BEC) and Navy RAB Co-Chairman, welcomed everyone and introduced the Community RAB Co-Chairman, Mr. Don Zweifel. Self-introductions followed by those in attendance; a total of 19 attendees were present. Two RAB Members, Ms. Susan Reynolds and Ms. Mary Lynn Norby, have excused absences.

ANNOUNCEMENTS:

Mr. Callian began the meeting with the following announcements and discussions.

- Mr. Callian reviewed all items on the RAB meeting agenda; no changes to the agenda were suggested by the RAB.
- Mr. Callian referenced the RAB package provided as a handout that has copies of the slides and contact information for Navy and regulatory agency personnel. The slides presented the list of key Navy and Regulatory Agency contacts, RAB points of contact, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Administrative Record (AR) File and Information Repository (IR) locations and hours, and environmental and reuse/redevelopment websites. As shown on a slide, Mr. Callian announced the dates for the upcoming 2011 and 2012 RAB meeting/email updates. Email updates are planned for 07 December 2011, March 2012, and December 2012. The next meetings are scheduled for 23 May 2012 and 26 September 2012. Mr. Zweifel asked the Navy to provide important information, as it became available, before the email updates. Mr. Callian stated this was a good approach and asked RAB members who have questions to please contact him directly.
- Mr. Callian began the discussion of old business by asking Mr. Zweifel for approval of the 18 May 2011 Draft RAB Meeting Minutes. Mr. Zweifel requested input/comments from RAB

members. The minutes were approved without change. Mr. Callian stated the minutes would be finalized and uploaded to the BRAC website.

Mr. Zweifel thanked the Navy for the excellent tour of the Former MCAS El Toro remedial sites on 31 August 2011 and was very impressed by the remarkable progress for cleanup and transfer of the Former MCAS El Toro property. Mr. Callian thanked Mr. Zweifel and noted that the same effort and dedication of the Navy team is being applied to Former MCAS Tustin.

Mr. Callian began the next agenda topic, an update of the environmental program.

ENVIRONMENTAL STATUS UPDATE

Mr. Callian provided an overview of the Former MCAS Tustin Environmental Program and noted that the update provides an extensive list of accomplishments for this mature Environmental Restoration Program. Most of the activities are long-term monitoring and operation with maintenance of remedial actions already installed at the sites. Groundwater monitoring has scheduled report dates and the data changes very little throughout the year. This is one reason for the 2012 RAB schedule having fewer meetings and relying on email updates. The Environmental Status Update is incorporated into the PowerPoint presentation and in the handouts. The handout provides a chronology of the Environmental Restoration Program history; the current or upcoming items are bulleted in blue font. Mr. Callian noted that new acronyms have been added to the Environmental Status Update; these can be found on the last page.

- Operable Unit (OU)-1A and OU-1B: Both OU-1A and OU-1B are on similar tracks and reporting is performed on the same schedule. Since the 18 May 2011 RAB meeting, the Navy issued the Draft 2010 Annual Groundwater Performance Evaluation Report (PER) in June 2011. The Final 2010 Annual Groundwater PER will be issued by the end of October 2011. The PER is an annual document wherein the Navy provides optimization of the monitoring systems. On-going operation and maintenance (O&M) activities include biweekly, monthly, and quarterly inspections; quarterly effluent sampling; quarterly groundwater monitoring and reporting, and annual system optimization. These activities and optimization of the remedy assures that the contaminants in groundwater are hydraulically contained per the Records of Decision (RODs). By the end of September 2011, the Navy will issue the 2011 Semiannual Groundwater Monitoring Data Summary (MDS) Report. Mr. Callian referenced the map showing the locations of these two Sites and noted that they have similar remedies addressing volatile organic compounds (VOCs) in groundwater.
- OU-3: This is IRP Site 1, the former Moffett Trenches Landfill, which was a former crash-crew burn pit. Mr. Callian showed the location of the Site on the map. The remedy is a cap with hydraulic control using a steel reinforced concrete containment wall in Peters Canyon Channel. Mr. Callian noted that there are no upcoming reports scheduled before the next RAB meeting in May 2012. The Navy continues to perform long-term operations, maintenance, and monitoring at IRP Site 1.
- OU-4B: This OU comprises six individual sites. The OU-4B ROD was finalized in 2010. The Navy is currently performing groundwater monitoring and design work. The six sites at OU-4B are divided into Low Concentration Sites and Moderate Concentration Sites based

upon the concentrations of trichloroethene (TCE) in groundwater. The three Low Concentration Sites are IRP-11, IRP-13W, and Miscellaneous Major Spill (MMS)-04 and the three Moderate Concentration Sites are IRP-5S[a], IRP-6, and the Mingled Plumes Area (MPA). In May 2011, the Navy issued the Final 2010 Annual Groundwater Monitoring Report for OU-4B. Other reports submitted in 2011 are listed on the slide and provided in the handout. In June 2011, the Navy issued the Final Remedial Action Completion Report (RACR) for MMS-04. In August 2011, the Navy issued the Draft Land Use Control (LUC) Remedial Design (RD) and Long-Term Operation and Maintenance Plan (OMP) for Low Concentration Sites IRP-11 and IRP-13W. In October, the Navy plans to issue the Draft RD/Remedial Action (RA) Work Plan for the Moderate Concentration Sites. For the Moderate Concentration Sites, the third quarterly sampling event was completed in July 2011 and the Final Data Summary Report for the First and Second Quarter was issued on 14 September 2011. Quarterly groundwater monitoring is continuing in support of the RD. Mr. Callian noted that with the Final RACR for MMS-04, this Site received a no further action (NFA) determination and is now closed. Mr. Callian explained that MMS-04 would not be included in any future five-year reviews because there is no contamination from this Site left in-place; however because MMS-04 also lies within the area requiring institutional controls for the adjacent IRP Site 13S property, institutional controls for IRP Site 13S would apply to this area.

- Methyl Tert-Butyl Ether (MTBE) Plume, PCAP, UST Site 222: This Site is the subject of the update presentation later in the evening. Since the last RAB meeting on 18 May 2011, the Navy completed the third quarterly monitoring event on 11 August 2011. The Navy is continuing the on-going O&M activities that include quarterly groundwater monitoring, optimization reviews, and quarterly effluent sampling. In June 2011, the Navy issued the Draft 2010 PCAP Annual Report that includes the annual system optimization evaluation. The Final 2010 PCAP report will be issued in October 2011. In November 2011, the Navy will issue a Draft PCAP Closure Report for concurrence by the California Regional Water Quality Control Board, Santa Ana Region (RWQCB).

Mr. Zweifel noted that those RAB members wishing to review the Draft PCAP Closure Report should contact him. Mr. Callian noted that the Draft PCAP Closure Report would be available for public review in the IR library.

Mr. Callian concluded the review of the Environmental Restoration Program by identifying that the last page presents the chronology of completed Findings of Suitability to Transfer (FOSTs) and Findings of Suitability for Lease (FOSLs) with the parcels identified for each. Acronyms are included on the last page.

Mr. Callian asked the RAB for further questions, and with no questions, proceeded to the regulatory agency update.

REGULATORY AGENCY UPDATE

Mr. Callian asked Mr. John Broderick to begin the update.

Mr. John Broderick, RWQCB

Mr. Broderick stated that he did not have specific updates at this time, but would answer any questions from the RAB.

Ms. Christina Fu, Department of Toxic Substances Control (DTSC)

Ms. Fu provided an overview of the documents that DTSC had recently reviewed. DTSC just reviewed the Draft Five-Year Review Report. Comments were provided on the groundwater monitoring reports. Project Environmental Review Forms (PERFs) were reviewed for the city of Tustin's plans to build roads and utilities and install geotechnical borings (Parcel 22) on property that has an active remedy. PERFs are used to document that the planned construction activity will not disturb the remedial action.

Mr. Zweifel asked about a project with a water discharge that included selenium, which was being discharged to Peters Canyon Channel. Mr. Broderick stated that the PCAP for UST Site 222 previously had a discharge to surface water that was discontinued in 2007 and redirected to the sewer system. Mr. Broderick identified that the conditions of the past discharge was to meet the requirements of the total maximum daily loads (TMDLs) and when this became a concern, use of the sewer system was a better option. Mr. Zweifel asked if Mr. Chris Compton was involved with these arrangements. Mr. Compton introduced himself as the Manager of Environmental Resources for the Water District, and stated that he was involved with the permit for TMDL requirements.

Mr. Callian thanked Ms. Fu and referred to the next topic for an update presentation of the PCAP at UST Site 222.

UST Site 222 PCAP Update - Mr. Louie Cardinale, Navy Remedial Project Manager (RPM)

Mr. Cardinale began the UST Site 222 PCAP presentation by noting the slides are provided as part of the handouts for the RAB presentation this evening. The discussion and presentation is based upon the groundwater remedial action addressing MTBE in two areas associated with UST Site 222. The information is from the 2010 PCAP Annual Report.

Slide 1 – is the title slide: Update for UST Site 222 PCAP.

Slide 2 – is the presentation overview listing covered topics, including the introduction and overview of UST Site 222; operational data; and conclusions and recommendations from the 2010 PCAP Annual Report. Acronyms and abbreviations are provided.

Slide 3 – identifies the history of the Site as a former gasoline station that had seven USTs that were removed in 1998. The soil removal from the tank excavations was completed between 1998 and 2005. Impacted soil was treated using an onsite treatment system and reused as clean backfill. In February 2006, the soil received RWQCB concurrence for no further action (NFA). A groundwater remedial action has been underway since 2001 to address MTBE that has impacted groundwater in the first water-bearing zone (WBZ), which occurs at approximate depths of 5 feet to 30 feet below ground surface (bgs), and the second WBZ that occurs at 30 feet

to 60 feet bgs. The third WBZ, which occurs at approximate depth of 60 feet to 90 feet bgs, is being protected and is not impacted.

Slide 4 - is a map showing the Source Area, the two treatment areas, and locations of extraction and monitoring wells.

Slide 5 - provides the PCAP cleanup objectives. The primary objective is to protect the regional drinking water aquifer by preventing migration of MTBE into the third WBZ or beyond the Navy's Carve-Out (CO) boundary, at concentrations exceeding the maximum contaminant level (MCL) of 13 micrograms per liter ($\mu\text{g}/\text{L}$).

Slide 6 - provides a summary of the PCAP operational data for the extraction/treatment rates, the volume of groundwater treated, and the mass of contaminants removed. As of 31 August 2011, approximately 260 million gallons have been treated and 4,309 pounds of MTBE have been removed.

Slide 7 - provides two graphs: one showing the volume of groundwater treated per year and the other showing the cumulative mass of MTBE removed per year. The graph shows the slope of the curve is nearly flat for the past three years, which indicates a reduction in the mass of MTBE removed per gallon of water treated. This is referred to as "diminishing returns" because more water is treated and less contaminant mass is removed.

Slide 8 - is a map of MTBE concentrations in the second WBZ monitoring wells from the fourth quarter 2008. The colored plume area denotes the extent of groundwater in which MTBE exceeded the cleanup goal of 44 $\mu\text{g}/\text{L}$ for the second WBZ.

Slide 9 - is a map showing the MTBE concentrations in the second WBZ monitoring wells from the third quarter 2011. Discussion noted that the data for monitoring wells compared to those in Slide 8 show a distinct decrease in MTBE remaining in the groundwater at concentrations exceeding the cleanup goal.

Slide 10 - summarizes conclusions of operational facts. Noting that in the third quarter 2011, MTBE concentrations in the first WBZ were below the cleanup goal (CG); MTBE concentrations in the second WBZ were below the CG at all but two monitoring wells, and MTBE was not reported in the third WBZ. Minimal contaminant mass remains and is not a threat to the third WBZ or migrating beyond the CO Boundary.

Slide 11 - provides the recommendation to prepare the site closure report for concurrence by the RWQCB.

Slide 12 - lists the acronyms and abbreviations

Mr. Cardinale responded to Mr. Chris Compton's question about discharge of treated water, by explaining that the groundwater treatment system discharges to new sewer lines along Armstrong Road and Tustin Ranch Road then is conveyed to the Orange County Sewer Districts system.

Mr. Zweifel discussed with Mr. Broderick the opinion of the RWQCB regarding the upcoming Closure Report. Mr. Broderick noted that he had requested the Navy move towards closure last year and the Navy chose to be conservative by collecting more data in 2011. Mr. Broderick stated that he has reviewed the data and noted concentrations of MTBE are less than the concentrations from several months ago. Mr. Broderick stated that after reading the upcoming Closure Report, he expects to concur with site closure and NFA for UST Site 222.

Mr. Compton asked to have an explanation of "site closure." Mr. Broderick explained that the UST Site 222 is a petroleum site being closed through the petroleum corrective action program. Therefore, when the site is closed, the site requires NFA, including no monitoring, no LUCs, and deed restrictions. Mr. Zweifel asked if the property could then be available for transfer. Mr. Broderick noted that the property would be available for transfer because when closed through the petroleum corrective action program, sites do not have the same deed restrictions required as for hazardous substance sites.

Mr. Cardinale responded to further questions by explaining that the draft PCAP UST Site 222 Closure Report was planned for November 2011. Mr. Callian noted that the process to get to a final report would require approximately six months after release of the draft report.

Mr. Cardinale asked for further questions or discussion and received none. The RAB thanked Mr. Cardinale.

The next agenda item was introduced by Mr. Callian as an update of the Five-Year Review Report and introduced Mr. Mike Wolff (Enviro Compliance Solutions [ECS]) who would give the presentation.

The CERCLA Five-Year Review Process and Plan, Former MCAS Tustin IRP Sites 1, 3, 12, and 13S - Mr. Mike Wolff, ECS

Mr. Wolff provided an introduction and a brief overview of the general informative nature of the presentation. Mr. Wolff noted that the RAB received a presentation of the five-year review process and for these Sites at a previous meeting. This is the second five-year review for OU-3 and the first review for OU-1A and OU-1B. OU-4B Sites are included for completeness, although these Sites are in the RD phase and do not yet have a remedy in place. A complete review of the RAs for the OU-4B Sites will be in the next Five-Year Review Report.

Slide 1 - is the title slide: Five-Year Review Update Former MCAS Tustin, IRP Sites 1, 3, 12, and 13S for the RAB Meeting 21 September 2011.

Slide 2 - is the presentation overview listing topics covered, including descriptions of the sites, components of the review, site-specific findings, schedule, and acronyms.

Slide 3 - identifies the four sites with remedies in-place: OU-3 (IRP Site 1), OU-1B South (IRP Site 3), OU-1B North (IRP Site 12), and OU-1A (IRP Site 13S). There are two OU-4B sites included, although these do not have a remedy in-place yet. The Navy completed the Five-Year Review of in-place RAs and submitted the Draft Five-Year Review Report for agency review on 29 July 2011.

Slide 4 – is a map showing the five-year review site locations, including respective groundwater plumes associate with the sites.

Slide 5 – presents a diagram of the six components of the five-year review process. Four of these are data collection steps. The fifth step is the protectiveness evaluation and the sixth step is the community involvement process. The purpose of a five-year review is to evaluate and determine whether a remedy remains protective of human health and the environment.

Slide 6 – describes the protectiveness determination that is one of the six key components. The slide lists the three questions used as decision points for determining protectiveness. The review and assessment of protectiveness is a rigorous review and very important step in the review process. The three questions are:

- “Is the remedy functioning as intended by the decision document?”
- “Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives still valid?” and;
- “Has any other information come to light that could question the protectiveness of the remedy?”

Slide 7 – presents site-specific findings for OU-1A, OU-1B North, and OU-1B South; the remedies are protective and functioning as intended. Contaminants are contained and land use is consistent with the restrictions established in the LUC RD.

Slide 8 – presents site-specific findings for OU-3; the remedy is protective and functioning as intended. Contaminants have not been reported in the surface water of Peters Canyon Channel since monitoring began in 1986 and land use is consistent with the restrictions established in the LUC agreements.

The RAB and Navy discussed several aspects about the selection of a cap and roadway over the landfill at OU-3. Mr. Wolff explained that the decision process and the suitability or protectiveness of the land use restrictions and protectiveness are evaluated in detail as part of the five-year review.

Mr. Zweifel asked if the regulatory comments were in agreement with the conclusions. Mr. Wolff noted that the agency comments addressed several technical details of the evaluation process and did not have specific exceptions to the conclusions of protectiveness. Mr. Cardinale noted that the agency comments are draft at this time and are being discussed. The final comments and Navy responses will be part of the final document.

Slide 9 – provides the dates for scheduled submittal and reviews of the Five-Year Review Report.

- Draft Five-Year Review Report - 01 August 2011
- Final Five-Year Review Report – 31 October 2011

Mr. Callian noted that the date of the Final Five-Year Review Report is a fixed date that is determined by the previous Five-Year Review and is not expected to change.

Slide 10 – provides a list of acronyms and abbreviations used in the presentation.

Mr. Callian and the RAB members thanked Mr. Wolff for a fine presentation. The RAB Members thanked Mr. Wolff and the Navy for a fine presentation.

MEETING SUMMARY AND CLOSING COMMENTS

In closing, Mr. Callian stated that the next meeting is scheduled for Wednesday evening, May 23, 2012 and the schedule, as discussed earlier, is provided on the slides and handouts in the RAB package. Email updates will be provided in December 2011 and March 2012.

Mr. Callian asked Mr. Zweifel for a summary and concluding statement. Mr. Zweifel asked if the RAB enjoyed the excellent presentations and thanked the presenters. Several RAB members responded affirmatively to Mr. Zweifel and thanked the Navy for information well presented, informative, and useful to them.

Mr. Zweifel asked for the RAB's input for future meeting topics.

Mr. Harry Takach requested an update on the remedy for OU-4B Moderate Concentration Sites. Mr. Callian noted that as a potential topic.

Another potential topic was an update on the status of FOST 9. Mr. Callian noted that until all comments are resolved on the Five-Year Review Report, the status of FOST 9 is essentially on hold. Based upon the schedule presented tonight for the Final Five-Year Review Report, the Navy will know later this year about the FOST 9 schedule. Mr. Callian noted that the next email update could identify the status of the Five-Year Review Report and FOST 9.

Mr. Crompton asked if there was a map that identified the parcels or "Carve-Outs" included in FOST 9. Mr. Callian noted on the map the general areas. Ms. Content Arnold stated that there was a map on the table that identified the Carve-Outs and their associated parcels. Mr. Zweifel expressed interest in the status of the hangars and noted that an overview of environmental conditions and how a property was to be reused would be an interesting topic. Mr. Callian suggested that the RAB form a subcommittee and interact directly with members of the reuse groups and property owners to obtain the reuse information. Mr. Callian explained that presentations from the Navy are mandated by law to focus on the cleanup and the remedial decision process. Reuse and development of a property after cleanup, cannot be a topic presented by the Navy team. Mr. Callian noted that the facility is available for community meetings and a RAB subcommittee could discuss reuse topics.

Mr. Zweifel asked the RAB members if they were interested. Several expressed an interest. Specifically, Mr. Zweifel asked Mr. Ken Nishikawa, who represents the City of Tustin, if the city could provide an update of reuse plans. Mr. Nishikawa responded that he would contact Mr. West and see what could be arranged. In the meantime, the RAB members were directed to the city of Tustin's Webpage as a resource for available information.

Mr. Callian thanked everyone for attending tonight's RAB meeting and noted the Navy's continued appreciation for the RAB members' commitment.

The 93rd Former MCAS Tustin RAB Meeting was adjourned at 8:15 PM.

LIST OF HANDOUTS PROVIDED AT THE MEETING

- 21 September 2011 Former MCAS Tustin RAB Meeting Agenda
- RAB Meeting Schedule
- Former MCAS Tustin - Where to Get More Information
- Environmental Websites
- MCAS Tustin Environmental Program Status
- Presentation Slides: Former MCAS Tustin Status Update for UST Site 222 Final PCAP and The Five-Year Review Update, Former MCAS Tustin IRP Sites 1, 3, 12, and 13S.
- Former MCAS Tustin RAB Mission Statement
- Former MCAS Tustin RAB Fact Sheet/Membership Application
- Former MCAS Tustin Mailing List Coupon

Copies of the meeting minutes and handouts provided at the 18 May 2011 RAB meeting are available at the CERCLA IR for former MCAS Tustin located at the University of California, Irvine, Main Library, Government Publications Section. Library hours are 8:00 AM to 7:00 PM Monday through Thursday, 8:00 AM to 5:00 PM Friday and Saturday, and 1:00 PM to 5:00 PM on Sunday. It is recommended that people call the library for confirmation of these hours as they may be modified during final exam and holiday periods. The Government Publications Section may be reached at (949) 824-7362. In addition, copies of the meeting minutes and handouts are also available at the CERCLA AR File, maintained at Building 307 at Former MCAS El Toro by Ms. Rawal. Documents can be viewed by appointment (call Ms. Rawal at [949] 859-6014) between 9:00 AM and 1:00 PM Monday through Thursday.

Final minutes from previous RAB meetings can be found on the internet at the Navy BRAC Program Management Office's (PMO) website: www.bracpmo.navy.mil

INTERNET SITES

Navy and Marine Corps Internet Access

BRAC PMO Web Site (includes RAB meeting minutes): <http://www.bracpmo.navy.mil/>

Department of Defense - Technical Information Center Home Page Web Site:

<http://www.dtic.mil/dtic>

U.S. EPA:

Homepage: www.epa.gov

Superfund information: www.epa.gov/superfund

National Center for Environmental Assessment: www.epa.gov/ncea

Federal Register Environmental Documents: www.epa.gov/federalregister

Cal/EPA:

Homepage: www.calepa.ca.gov

Department of Toxic Substances Control: www.dtsc.ca.gov

Department of Health Services, reorganized into the Department of Health Care Services and the Department of Public Health: www.dhs.ca.gov

Santa Ana Regional Water Quality Control Board: www.waterboards.ca.gov/santaana

Additional Websites: Reuse and Redevelopment

Orange County Great Park: www.ocgp.org

Great Park Conservancy: www.orangecountygreatpark.org

