

**Travis Air Force Base
Environmental Restoration Program
Remedial Program Manager's
Meeting Minutes**

13 June 2012, 0930 Hours

Mr. Mark Smith, Travis Air Force Base (AFB), conducted the Remedial Program Manager's (RPM) meeting on 13 June 2012 at 0930 hours, at Travis AFB, California. Attendees included:

- Mark Smith Travis AFB
- Glenn Anderson Travis AFB
- Lonnie Duke Travis AFB
- Merrie Schilter-Lowe Travis AFB
- Gregory Parrott Travis AFB
- Dezso Linbrunner USACE-Omaha
- Alan Friedman California Regional Water Quality Control Board (RWQCB)
- Jose Salcedo California Department of Toxic Substances Control (DTSC)
- Nadia Hollan Burke United States Environmental Protection Agency (USEPA)
- Mary Snow Techlaw, Inc
- Rachel Hess ITSI
- Mike Wray CH2M HILL
- Loren Krook CH2M HILL
- Tricia Carter CH2M HILL
- Leslie Royer CH2M HILL

Handouts distributed at the meeting and presentations included:

- Attachment 1 Meeting Agenda
- Attachment 2 Master Meeting and Document Schedule
- Attachment 3 SBBGWTP Monthly Data Sheet (May 2012)
- Attachment 4 CGWTP Monthly Data Sheet (May 2012)
- Attachment 5 Site ST018 Monthly Data Sheet (May 2012)
- Attachment 6 Presentation: Site SS030 Groundwater Cleanup Progress Report
- Attachment 7 Presentation: Program Overview

1. ADMINISTRATIVE

A. Previous Meeting Minutes

The 16 May 2012 RPM meeting minutes were approved and finalized as written, with the following exceptions:

Mr. Salcedo requested to include “Mr. Smith introduced Ms. Dawn Wright, Public Participation Specialist for DTSC. Ms Wright is replacing Mr. Marcus Simpson.

B. Action Item Review.

Action items from May were reviewed.

Action item one still open: Travis AFB to research beneficial reuse of treated water. Mr. Smith will contact the Project Manager at AFCEE to discuss, and give an update at next RPM meeting. Update: Mr. Smith talked with AFCEE regarding beneficial reuse, AFCEE is looking into it.

Master Meeting and Document Schedule Review (see Attachment 2)

The Travis AFB Master Meeting and Document Schedule (MMDS) was discussed during this meeting (see Attachment 2).

Travis AFB Annual Meeting and Teleconference Schedule

— The next RPM meeting will be held on 18 July 2012 at 0930 hours. The 15 August 2012 RPM date is subject to change due to the Proposed Plan (PP) Public Meeting. Mr. Salcedo said the week of 14 August 2012 works best for him. Ms. Burke said the week of 27 August 2012 will not work for her.

Travis AFB Master Document Schedule

- Proposed Plan (PP): No change. Once all the comments have been received and reviewed. Travis AFB will contact The Agencies and CH2M HILL via teleconference and discuss comments. When the text portion is completed, the graphics will be prepared.
- Groundwater Record of Decision (ROD): No change to schedule.
- Potrero Hills Annex: (FS, PP, and ROD): No change to schedule. Mr. Anderson noted that a 6-week extension on the work plan had been requested.
- Technical Memorandum for Assessment of Aerobic Chlorinated Cometabolism Enzymes: No change to schedule.
- Work Plan for Remedial Process Optimization of Sites SS016 and SS029: The Response to Comments Meeting (RTC) was changed to 13 June 2012. Travis AFB has submitted their responses to EPA’s comments. Mr. Duke added that the dig permit has been approved and would like to finalize the Work Plan

(WP) as soon as possible. Ms. Burke suggested a working meeting to fast track the document. Mr. Friedman and Mr. Salcedo said they had no comments on the document. Mr. Linbrunner said AFCEE is concerned because the document has been delayed by six months, and the period of performance has been extended to January 2013.

- Technical and Economic Feasibility Analysis (TEFA): No change to schedule. Will be moved to history file next month.
- Site LF007C Data Gaps Investigation Technical Memorandum: No change to schedule.
- FT005 Remedial Action Completion Report: No change to schedule. Mr. Linbrunner commended the contractor on their performance, stating under the original Performance Based Contract (PBC) they were to meet industrial standards with land use controls. But due to the way the cleanup was conducted they were able to almost meet residential cleanup levels, and unrestricted land use. The contractor is waiting for dioxin sample data to be received, and if it comes back under MCL this site will meet the Air Force goals for 2015 of “clean closure”. Ms. Hess said they are expecting the un-validated dioxin results on 15 June 2012.
- Quarterly Newsletter (July 2012): No change to schedule. Mr. Anderson said his goal is to promote the PP in this quarterly newsletter, by explaining in greater detail what the PP is. Travis AFB will not prepare a fact sheet. Ms. Burke voiced concerns about not including a fact sheet. Ms. Burke said she will look into the requirements and language.
- 2011 Groundwater Treatment RPO Annual Report: No change to schedule. Travis AFB has received EPA comments and is working on the responses. Mr. Salcedo and Mr. Friedman said they reviewed the document and had no comments.
- 2011 CAMU Annual Report: No change to schedule.
- Old Skeet Range Engineering Evaluation/Cost Analysis: No change to the schedule. Travis AFB has submitted responses to EPA comments.

2. CURRENT PROJECTS

Treatment Plant Operation and Maintenance Update

Mr. Duke reported on the treatment plant status.

South Base Boundary Groundwater Treatment Plant (see Attachment 3)

The South Base Boundary Groundwater Treatment Plant (SBBGWTP) performed at 100% uptime, and 5.8 million gallons of groundwater were extracted and treated during the month of May 2012. All of the treated water was discharged to Union Creek. The average flow rate for the SBBGWTP was 120 gallons per minute (gpm).

Electrical power usage was 14,580 kWh and approximately 19,975 pounds of CO₂ were created (based on DOE calculation). Approximately 2.7 pounds of volatile organic compounds (VOCs) were removed in May. The total mass of VOCs removed since startup of the system is 421 pounds.

Optimization Activities: Troubleshooting activities indicated that EW01x05 was inoperable due to a pump motor ground short. On 29 May 2012 the EW01x05 level transducer wiring was repaired and the well was brought back on line.

Central Groundwater Treatment Plant (see Attachment 4)

The Central Groundwater Treatment Plant (CGWTP) performed at 100% uptime with approximately 2.0 million gallons of groundwater extracted and treated during the month of May 2012. All treated water was diverted to the storm drain. The average flow rate for the CGWTP was 39.9 gpm. Electrical power usage was 2,876 kWh for all equipment connected to the Central plant, and approximately 3,940 pounds of CO₂ were created. Approximately 5.1 pounds of VOCs were removed from groundwater in May. The total mass of VOCs removed since the startup of the system is 11,283 pounds.

Optimization Activities for WTTP: The WTTP remains off line since it was shut down in April 2010 for the ongoing rebound study. No additional optimization activities to report for the month of May.

Optimization Activities for CGWTP: No optimization activities to report for the month of May.

North Groundwater Treatment Plant (no Attachment)

Mr. Duke said the North Plant is still shut down. NGWTP was turned back on in early June to grab some samples. Once the validated sample results are received, the NGWTP will be turned on.

Site ST018 Groundwater (MTBE) Treatment Plant (see Attachment 5)

The Site ST018 (MTBE) Treatment Plant (ST018 GWTP) performed at 100% uptime with approximately 236 thousand gallons of groundwater extracted and treated during the month of May 2012. All treated water was diverted to the storm drain. The average flow rate for the ST018 GWTP was 4.82 gpm. Electrical power usage for the month was 177 kWh for all equipment connected to the ST018 GWTP plant, which equates to the creation of approximately 242 pounds of CO₂. Approximately 2.88 pounds of BTEX, MTBE and TPH were removed from groundwater in May. The total BTEX, MTBE and TPH mass removed since the startup of the system is 14.7 pounds.

Note: electrical power use is for the alarm system and a pump that pushes water through the GAC. The other pumps in the system are all solar powered.

Optimization Activities: No optimization activities to report for the month of May.

3. Presentations

Site SS030 Groundwater Cleanup Progress Report (see Attachment 6)

Ms. Royer reported on Site SS030 Groundwater Cleanup Progress Report. See attachment 6 for details. Highlights included:

Ms. Royer provided a map to show the locations of SS030 and FT005, located in the vicinity of the south base boundary.

Site SS030 Recent History:

- From 2002 through 2008 the data showed increasing TCE concentrations in the easternmost wells of Site SS030 (MW03x30 and MW05x30). The groundwater plume may be migrating eastward toward Site FT005, due to the pumping of fifteen wells at that site.
- In 2009 additional investigation was conducted to define the extent of the TCE contamination on the eastern side of Site SS030. Travis AFB received permission from the landowner to conduct the investigation in the area that extended beyond the easement, so hydropunch samples could be collected; however, permanent monitoring wells could not be installed.
- The investigation found the eastern edge of the SS030 plume (TCE concentrations exceeding MCLs) extended beyond the eastern edge of the easement.
- Based on the results of the hydropunch sample analysis, a well pair was installed (MW2001Ax30 and MW2001Bx30; shallow and deep well screens) as close as possible along the easement boundary.

SS030 Optimization Measures:

- Increased pumping at Site SS030 groundwater extraction wells in 2010 by turning extraction wells EW03x30, EW04x30 and EW711x30 back online.
- Extraction at Site FT005 wells has been significantly reduced since December 2007 to conduct a rebound study, currently only four out of the fifteen wells are operating.

SS030 Optimization Results:

- Improvement in hydraulic capture; from the recent GSAP monitoring and sampling, groundwater elevation contours indicate that capture of the plume exceeding the MCLs has been accomplished, and that TCE concentrations at monitoring wells (MW03x30, MW05x30 and well pair MW2001Ax30/MW2001Bx30) are all decreasing.

- In fact, the TCE plume exceeding MCLs is now contained within the existing easement, indicating that the eastern plume edge has migrated westward.

Ms. Royer provided a graph of the TCE concentration from 4Q07 to 2Q12. See attached for details.

Mr. Anderson commented on the different ways to look at optimization by increasing the pumping to draw the plume back in; versus installing new extraction wells. The decision of increasing the pumping actually looks to be a better decision using less energy in the long run. Mr. Wray added that significant construction costs were saved by not having to install additional extraction wells. Mr. Anderson suggested that the Sustainable Remediation Tool (SRT) could be used to compare carbon footprint and the long term cost of installing new extraction wells.

Program Update: Activities Completed, In Progress and Upcoming (see Attachment 7)

Mr. Wray reported on the status of field work and documents which are completed, in progress, and upcoming. See Attachment 7 for details. Highlights included:

Completed Documents: 2011 CAMU Annual Report, and Technical and Economic Feasibility Analysis (TEFA).

Completed Field Work: 2012 Annual GSAP Sampling.

In-Progress Documents and Field Work: Site LF007C Data Gaps Investigation Technical Memo.

Field Work In Progress: None.

Upcoming Documents include the Technical Memorandum for Assessment of Aerobic Chlorinated Cometabolism Enzymes, FT005 Remedial Action Completion Report, and Basewide Groundwater Record of Decision (ROD).

Upcoming Fieldwork includes SS029/SS016 System Optimization Analysis, CAMU Lysimeter Removal, and LF007C GET System Optimization.

4. New Action Item Review

None.

5. PROGRAM/ISSUES/UPDATE

Document Review Priority for the agencies:

- 1) Proposed Plan
- 2) Work Plan for Remedial Process Optimization of Sites SS016 and SS029
- 3) Technical Memorandum for Assessment of Aerobic Chlorinated Cometabolism Enzymes
- 4) Site LF007C Data Gaps Investigation Technical Memorandum
- 5) Old Skeet Range Engineering Evaluation/Cost Analysis

6. Action Items

Item #	Responsible	Action Item Description	Due Date	Status
1.	Travis AFB	Research beneficial reuse of treated water and give update. Mr. Smith will contact the Project Manager at AFCEE to discuss this issue, and give an update at the 13 June RPM meeting. Update: Mr. Smith talked with AFCEE regarding beneficial reuse, AFCEE is looking into it.	TBD	Open
2.	EPA & DTSC	Email Travis AFB the person's name and title who will be signing the ROD.	TBD	Open
3.	Travis AFB	Give a Groundwater ROD presentation to EPA.	18 July 2012	Open