

**Travis Air Force Base
Environmental Management
Education Center, Building 249, Travis AFB, California
Environmental Restoration Program
Remedial Program Managers Meeting
Meeting Minutes**

10 December 2003, 0930 Hours

Mr. Mark Smith, Travis Air Force Base (AFB), conducted the Remedial Program Managers (RPM) meeting held on 10 December 2003 at 0930 in Education Center, Building 249, Travis AFB, California. Attendees included:

- Mark Smith Travis AFB
- Dale Malsberger Travis AFB
- Wilford Day Travis AFB
- Glenn Anderson Travis AFB
- Tom Sreenivasan Travis AFB
- Roger Johnson Air Force Center for Environmental Excellence (AFCEE)
- Roby Gregg AFCEE
- David Rose AFCEE/JA
- Gregory Parrott 60 AMW/JA
- John Lucey U.S. Environment Protection Agency (U.S. EPA)
- Elizabeth Allen TechLaw
- Sarah Raker Regional Water Quality Control Board (RWQCB)
- Mike Wray CH2M Hill
- Amir Matin URS
- Brian Garber Shaw Engineering and Infrastructure (SE&I)

Handouts distributed throughout the meeting included:

- Attachment 1 Meeting Agenda
- Attachment 2 Master Meeting, Teleconference, and Document Schedules
- Attachment 3 October 2003 Monthly Data Sheets (SBBGWTP, CGWTP, and NGWTP)
- Attachment 4 SBBGWTP Monthly Data Sheet (November 2003)
- Attachment 5 CGWTP Monthly Data Sheet (November 2003)
- Attachment 6 NGWTP Monthly Data Sheet (November 2003)
- Attachment 7 URS Field Activities, Travis AFB (November 2003)

1. ADMINISTRATIVE

A. Previous Meeting Minutes

The meeting minutes from the October 2003 RPM meeting were approved with changes and finalized.

B. Master Meeting and Document Schedule

The revised Travis AFB Master Meeting, Teleconference, and Document Schedules were distributed (see Attachment 2).

Travis AFB Master Meeting and Document Schedule

- Page 1, North, East, West Industrial Operable Unit (NEWIOU) schedule was updated.
- Page 2, SD042 and LF008 Remedial Action Report schedules were updated.
- Page 2, SS015 Removal Action Report draft final due date was changed to NA (not applicable) and the final due date was changed to 5 December 2003.
- Page 3, South Base Boundary Groundwater Treatment Plant Operation and Maintenance (O&M) Manual Revision 3 schedule was updated.
- Page 4, Groundwater Sampling and Analysis Program (GSAP) Annual Report agency comments due date was changed to 8 January 2004, and the response to comments meeting was changed to 14 January 2004.
- Page 5, Quarterly Newsletter and Risk Assessment Fact Sheet schedules were updated.
- Page 6, the Quarterly Groundwater Treatment Plant schedules were updated for 2004.
- Page 7, LF044 Remedial Action Report was moved to the Historical Document section.

2. OPERABLE UNIT UPDATE

A. North, East, West, Industrial Operable Unit

1. NEWIOU ROD Plan of Action and Milestone

a. Groundwater Protection Technical Memorandum

Mr. Malsberger stated that the Air Force is finalizing the Groundwater Protection Technical Memorandum and will incorporate the responses. This document will be sent out next week via email along with a hardcopy.

b. Ecological Protection Technical Memorandum

Mr. Malsberger stated that the agencies' comments on the Ecological Protection Technical Memorandum were received. The responses to comments will be submitted next week.

Mr. Malsberger requested a meeting or teleconference be scheduled to discuss the comments. The agencies will determine a date and time for this meeting. It was suggested that this meeting take place during the January 2004 RPM meeting.

2. FFA Schedule Change

Mr. Malsberger presented the FFA Schedule Change Letter for signatures from the agencies.

3. Union Creek Salmon

Mr. Malsberger stated that he was informed by Mr. Steve Stopher that salmon have been sighted in the Union Creek. Mr. Malsberger made the necessary contacts to determine how to address this issue.

3. CURRENT PROJECTS

Mr. Sreenivasan distributed the October 2003 Monthly Data Sheets (see Attachment 3) for agency review.

A. South Base Boundary Groundwater Treatment Plant

Mr. Sreenivasan reported that the South Base Boundary Groundwater Treatment Plant (SBBGWTP) performed at 100% uptime with approximately 6.0 million gallons of groundwater extracted and treated during the month of November 2003. The total mass of volatile organic compounds (VOCs) removed since startup of the system is 237 pounds (see Attachment 4).

No plant shutdowns occurred at the SBBGWTP during the month of November.

Discussion took place on the current status and recommendation for future optimization section of the monthly treatment plant report. It was agreed that this section will remain in the report; however, the reporting format may change.

B. Central Groundwater Treatment Plant

Mr. Sreenivasan reported that the Central Groundwater Treatment Plant (CGWTP) performed at 100% uptime with approximately 3.4 million gallons of groundwater extracted and treated during the month of November 2003. The average flow for the CGWTP was 79.5 gallons per minute (gpm). Approximately 205 pounds of VOCs (of which 189 pounds were from vapor) were removed during November 2003. The total mass of VOCs removed since startup of the system is 3,829 pounds (see Attachment 5).

The thermal oxidation (ThOx) system continued to treat soil vapor from the 2-phase well as part of the SS016 focused vapor extraction activities. The September 2003 vapor sample results indicated compliance with substantive requirements of the Bay Area Air Quality Management District Regulation 8, Rule 47. System vapor samples are scheduled to be collected again in December 2003.

The West Treatment and Transfer Plant vacuum blowers remain off line during the rebound study. Rebound samples will be collected and analyzed in March 2004.

Approximately 43,000 gallons of the 3.4 million gallons of water treated during November was used for irrigation. The remainder was discharged to the storm drain.

Ms. Raker asked if a free product evaluation report will be submitted in a separate email. Mr. Sreenivasan stated yes, he will start working on it after he returns from his vacation.

C. North Groundwater Treatment Plant

Mr. Sreenivasan reported that the North Groundwater Treatment Plant (NGWTP) performed at 87.2% uptime with approximately 840 thousand gallons of groundwater extracted and treated during the month of November 2003. The average flow for the NGWTP was 22.3 gpm. Less than a pound of vapor and groundwater VOC mass was removed through extraction during November 2003 (see Attachment 6).

The plant experienced shutdowns due to malfunctioning of the level transmitter in the wet well. The transmitter was giving false readings and

needed to be recalibrated. This resulted in three system shutdowns and decreased the uptime.

All treated groundwater from the plant was sent to the duck pond for beneficial use.

Ms. Raker asked if it is necessary to treat vapor in the absence of total petroleum hydrocarbons (TPH). Mr. Sreenivasan stated that this is not done during the winter months because of high water levels. Ms. Raker asked if it is necessary to treat trichloroethene (TCE) vapor as part of this treatment system. Are the wells designed so that it is necessary to treat vapor? Mr. Sreenivasan answered yes.

Ms. Raker asked whether it would be a problem not to treat the TCE vapor. In the process of extraction, is it necessary to extract vapor? Mr. Malsberger stated that it is not necessary; the option would be to just extract water.

Mr. Mike Wray stated that the plant was not designed for source removal.

The question was asked what is the cost billed for vapor versus no vapor.

Mr. Malsberger stated that the Air Force would need to conduct an economic analysis on the vapor cleanup time. Mr. Amir Matin stated that it is always advantageous to remove VOCs in a vapor phase.

Mr. Smith requested that Mr. Sreenivasan and Mr. Matin review the optimization process.

Mr. Roger Johnson asked about the 80 hours that the plant was down, what is being done to correct this – what actions have been taken to correct the failure of the transmitter. Mr. Matin stated that the transmitter has been replaced and that he would get back with Mr. Johnson on this issue.

Mr. Lucey asked if low mass removal is because SD031 was shut down. Mr. Sreenivasan stated that the mass removal rate at the NGWTP naturally drops during the winter.

Ms. Raker asked what is the status of the recommendation in the quarterly report to add an extraction well in the greater than 3,000 microgram per liter area. Mr. Sreenivasan stated that the Air Force will need to determine the cost impact. This is being worked on.

D. FT005 Off-Base Groundwater Remedial Action

Mr. Sreenivasan stated the Air Force is continuing installation of the temporary filtering system. The testing will be conducted during the week of 15 December 2003. The owner was not satisfied with the grading, so the Air Force regraded and reseeded the area per the landowner's requirement.

Mr. Sreenivasan stated that the project has gone well thanks to the efforts of CH2M Hill. This project is being transitioned to URS, who will monitor the O&M of the expanded plant.

E. SS015 Monitoring Wells Location

Mr. Sreenivasan stated that the following monitoring wells will be retained and/or replaced: MW104x15, MW105x15, MW216x15; MW238x15, and MW315x15. In addition, two additional monitoring wells will be installed, resulting in a total of seven monitoring wells. The new wells will be installed in June 2004.

Mr. Sreenivasan stated that the proposal from SE&I indicates three additional wells are to be installed. This recommendation will be clarified and given further consideration.

Mr. Sreenivasan will keep the agencies updated.

F. SS015 Soil Removal Action Project Summary Report

Mr. Malsberger stated that the final SS015 Soil Removal Action Project Summary Report was issued to the agencies on 5 December 2003.

G. LF007C Groundwater Action

Mr. Malsberger gave an update on the LF007C groundwater action.

- On-Base – Field work will commence in the spring of 2004.
- Off-Base – The field work is complete. The summary report was issued on November 26, 2003 and will become an attachment to the LF007C Interim Groundwater Remedial Action Report.
- Groundwater samples were collected from the two new off-base wells and results are expected soon.

H. CAMU Phase 2 Project Summary Report

Mr. Malsberger stated that the field work for the CAMU Phase 2 project is complete. An internal copy of the report will be submitted early January 2004. The draft will be submitted to the agencies on 30 January 2003.

Mr. Lucey asked if the lysimeter is being monitored. Mr. Garber stated that the lysimeter is electronically monitored. Monitoring will begin in December 2003 by SE&I and the data will be provided quarterly.

I. CAMU Wetland Mitigation Performance Criteria

Mr. Malsberger stated that as part of the CAMU maintenance, SE&I will be monitoring the five wetlands and provide recommendations. Natural Resources have a contract with URS to monitor for hydrogeological responses of the pool. Mr. Garber and Mr. Matin will provide a schedule shortly.

J. SD042 Soil Remedial Action Report Review

Mr. Anderson stated that he is in the process of reviewing the SD042 Soil Remedial Action Report.

K. Restoration Advisory Board Update

Mr. Sreenivasan stated that the January 2004 *Guardian* pre-draft is being reviewed. This issue will be published by the contractor out of San Antonio, Texas.

The pre-dry run and the dry run for the Restoration Advisory Board presentations are scheduled for 8 January 2004 and 15 January 2004, respectively.

The next RAB meeting will be 22 January 2004 at 7:00 p.m. at the Northern Solano County Association of Realtors office in Fairfield.

4. PROGRAM ISSUES UPDATE

A. Project Funding and Prioritizing

1. LF007 Easement

Mr. Smith stated that the Air Force has completed the monitoring well installation; however, final papers have not been completed on the easement. The U.S. Army Corps of Engineers has stated the title deed has not been completed.

2. Other

Mr. Lucey requested that a project timeline be presented during the January 2004 RPM meeting.

B. Draft RW013 Closure Letter

Mr. Anderson stated that the Air Force is waiting for DTSC's comments on the draft RW013 Closure Letter.

C. Haloprobe

Mr. Anderson stated that the representatives of the haloprobe technology are conducting testing with a new and improved tool in Ohio. The representatives will be in California in January 2004. Mr. Anderson will keep the RPMs updated and, if necessary, obtain paperwork such as digging permits.

D. WABOU Soil ROD – Annual Land Use Report

Mr. Anderson stated that, according to the WABOU Soil Record of Decision (ROD), an annual report of land use control is due. The inspection has been completed and the report is going through internal review for completeness and accuracy. This report will be provided in mid-January 2004 via email and hardcopy. The Annual Land Use Report will be signed by the Vice Wing Commander.

E. Field Activity Reports

Mr. Smith distributed the field activity reports from URS (see Attachment 7).

ACTION ITEM LIST

(Action Items Closed)

ITEM #	RESPONSIBLE	ACTION ITEM	DUE DATE	STATUS
1.	Agencies	To provide comments on the Ecological Protection Technical Memorandum	TBD	The Air Force has received all the comments on the Ecological Protection Technical Memorandum. Completed. Item Closed.
2.	Air Force U.S. EPA	To submit an FFA extension request for the draft ROD and document title changes.	TBD	Mr. Malsberger presented a letter of extension for signatures from the agencies. Completed. Item Closed.
3.	Air Force	To add current status and recommendation for future optimization	TBD	Completed. Item Closed.

ACTION ITEM LIST

(Action Items Open)

ITEM #	RESPONSIBLE	ACTION ITEM	DUE DATE	STATUS
1.	Air Force	To develop a presentation on the CAMU to the RWQCB's landfill regulators.	February 2004	Mr. Malsberger stated this will be performed after the January 2004 RAB meeting.
2.	Air Force	Develop the NFRAP document for SS041.	March 2004	Ongoing.
3.	Air Force	Review treatment plant operations, cost effectiveness, and optimization efforts.	14 January 2004	New Item.
4.	Air Force	To provide the status of the SS014 (MW131x04) monitoring wells (destroy or convert to extraction well).	14 January 2004	New Item.
5.	Air Force	To provide proposed locations for SS015 monitoring wells.	11 February 2004	New Item.
6.	Air Force	To provide a project timeline (Gantt chart) for the year.	14 January 2004	New Item.