

**Travis Air Force Base
Environmental Management
Environmental Management, Building 570, Travis AFB, California
Environmental Restoration Program
Remedial Program Managers Meeting
Meeting Minutes**

14 January 2004, 0930 Hours

Mr. Mark Smith, Travis Air Force Base (AFB), conducted the Remedial Program Managers (RPM) meeting held on 14 January 2004 at 0930 in Environmental Management, Building 570, 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
- Roby Gregg Air Force Center for Environmental Excellence (AFCEE)
- 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)
- Jose Salcedo Department of Toxic Substances Control (DTSC)
- Mike Wray CH2M Hill
- Amir Matin URS
- Brian Garber Shaw Engineering and Infrastructure (Shaw E&I)

Handouts distributed throughout the meeting included:

- Attachment 1 Meeting Agenda
- Attachment 2 Master Meeting, Teleconference, and Document Schedules
- Attachment 3 SBBGWTP Monthly Data Sheet (December 2003)
- Attachment 4 CGWTP Monthly Data Sheet (December 2003)
- Attachment 5 NGWTP Monthly Data Sheet (December 2003)
- Attachment 6 Map of LF007C Approximate TCE Isocontour
- Attachment 7 URS Field Activities, Travis AFB (December 2003)
- Attachment 8 Travis ERP: 2004 Projects Timeline
- Attachment 9 NGWTP Calculation Sheets

1. ADMINISTRATIVE

A. Previous Meeting Minutes

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

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 2, LF008 Remedial Action Report schedule was updated.
- Page 2, Corrective Action Management Unit (CAMU) Phase 2 – Project Summary schedule was established.
- Page 4, Groundwater Sampling and Analysis Program (GSAP) Annual Report. Ms. Raker has submitted comments. Mr. Sreenivasan requested that Mr. Salcedo and Mr. Lucey submit comments as soon as possible.
- Page 7, The Risk Assessment Fact Sheet and SS015 Removal Action Report were moved to the Historical Document section.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 distributed via email a tentative final Groundwater Protection Technical Memorandum with comments incorporated. Hardcopies of the final Groundwater Protection Technical Memorandum were distributed at the meeting.

b. Ecological Protection Technical Memorandum

Mr. Malsberger stated that a meeting will take place today to discuss comments and reach a consensus on the Ecological Protection Technical Memorandum.

2. FFA Schedule Change

Mr. Malsberger stated that the FFA Schedule Change Letter has been submitted to the administrative record.

3. CURRENT PROJECTS

A. South Base Boundary Groundwater Treatment Plant

Mr. Matin reported that the South Base Boundary Groundwater Treatment Plant (SBBGWTP) performed at 100% uptime with approximately 6.2 million gallons of groundwater extracted and treated during the month of December 2003. The average flow for the SBBGWTP was approximately 139 gallons per minute (gpm). Approximately 2.9 pounds of volatile organic compounds (VOCs) were removed during December 2003. The total mass of VOCs removed since startup of the system is approximately 240 pounds (see Attachment 3).

No plant shutdowns occurred at the SBBGWTP during the month of December 2003.

RPMs discussed the optimization section of the monthly treatment plant report. It was agreed that this section will remain in the reports; however, the reporting format may change.

It was recommended that the following wells be shut down due to low TCE concentrations: EW03x30, EW04x30, EW711x30, EW03x29, EW07x29 and EW731x05. Mr. Sreenivasan stated that he will send justification to the agencies for shutting down the extraction wells.

Ms. Raker questioned the large number for total dissolved solids being reported. Mr. Matin stated that he will look into it, but acknowledged that the number is erroneous.

B. Central Groundwater Treatment Plant

Mr. Matin reported that the Central Groundwater Treatment Plant (CGWTP) performed at 97% uptime with approximately 3.5 million gallons of groundwater extracted and treated during the month of December 2003. The average flow for the CGWTP was 81 gpm. Approximately 385 pounds of VOCs (of which 368 pounds were from vapor) were removed during December 2003. The total mass of VOCs removed since startup of the system is 4,349 pounds (see Attachment 4).

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 most recent sample, collected on 5 December 2003, showed an increase in influent TCE concentration. Focused vapor extraction will continue at the 2-Phase well. System vapor samples are scheduled to be collected again in March 2004.

The West Treatment and Transfer Plant (WTTP) vacuum blowers remain off line due to low asymptotic vapor concentrations. Rebound samples are scheduled to be collected and analyzed in March 2004.

All treated water is being diverted to the storm sewer; this is the standard operating procedure during wet winter months. Irrigation of Area 200 with treated water from the CGWTP will resume in spring 2004.

It was recommended as part of the optimization activities that extraction wells EW700x37 and EW555x43 be shut down due to low TCE concentrations. It was also recommended to close the free product removal sites (SD034, ST032, and SS014).

Site-specific data will be reviewed to determine if closure is justified.

Mr. Lucey suggested that the status depicting agency approval of the closure be noted in the optimization table.

C. North Groundwater Treatment Plant

Mr. Matin reported that the North Groundwater Treatment Plant (NGWTP) performed at 92% uptime with approximately 885 thousand gallons of groundwater extracted and treated during the month of December 2003. The average flow for the NGWTP was 21.6 gpm. Less than a pound of VOC mass from groundwater was removed during December 2003. The total mass of VOCs removed since startup of the system is 149 pounds (see Attachment 5).

The SVE system was taken off line on 10 December 2003 due to water levels rising above the well screens. The SVE system will remain off line until the summer of 2004.

A water level transmitter less susceptible to adverse weather and condensation has been ordered and will replace the transmitter currently in the wet well. The new water level transmitter is identical to those installed at the CGWTP and WTTP and is expected to minimize future downtime at the NGWTP. The replacement will occur in early January 2004.

D. SS015 Monitoring Wells Location

Mr. Smith stated that the Air Force is still working on the locations for the SS015 monitoring wells.

E. LF007C Groundwater Action

Mr. Malsberger distributed a map of the LF007C site (see Attachment 6)

Mr. Malsberger stated that the results of the November 2003 hydropunch sample analyses were non-detect. Sampling results for MW620 were 18.6

parts per billion and MW619 were non-detect. The results indicate that the plume is not migrating northward. The extraction wells will start pumping in the spring, which should address the off-base portion of the plume.

F. CAMU Phase 2 Project Summary Report

Mr. Malsberger stated that the Air Force is working on the pre-draft CAMU Phase 2 Project Summary Report. The draft date will be given during the January teleconference (28 January 2004).

G. CAMU Wetland Mitigation Performance Criteria

Mr. Malsberger stated that as part of the CAMU maintenance, Shaw E&I will be monitoring the five wetlands and provide recommendations. Shaw E&I will conduct a three- to four-day survey during March and June to determine if additional action is required to develop vernal pools and wetlands.

Natural Resources stated that the survey has been delayed because of the late funding; field work will begin in September/October 2004.

H. SD042 Soil Remedial Action Report Review

Mr. Anderson stated that agency comments are due 19 January 2004 for the SD042 Soil Remedial Action Report. Comments have been received from the Restoration Advisory Board (RAB). Ms. Raker stated that she has no comments; Mr. Salcedo and Mr. Lucey will provide comments by the due date.

I. Restoration Advisory Board Update

Mr. Sreenivasan stated that the January 2004 *Guardian* draft will be distributed 19 January 2004.

The dry run for the RAB presentations is 15 January 2004.

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

Mr. Smith stated that Travis AFB anticipates receiving all requested funds for fiscal year 2004.

B. Draft RW013 Closure Letter

Mr. Anderson stated that the Air Force is waiting for DTSC's comments on the draft RW013 Closure Letter. Mr. Salcedo stated that an attorney has not been assigned to the task as of this date.

C. 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.	Air Force	Review treatment plant operations, cost effectiveness, and optimization efforts.	January 2004	<p>Mr. Matin distributed calculation sheets (see Attachment 9). Mr. Matin stated that the calculations were based on the cost of carbon, sequestrant, and electricity. The conclusion is that it is less expensive to treat contamination in the vapor phase (\$28 per pound) than in the groundwater (\$695 per pound).</p> <p>Most of the vapor phase contamination at the NGWTP is TPH; however, TCE concentrations increased in December, which is believe to be the result of rising water level.</p> <p>Ms. Raker requested that the annual report distinguish between the efficiency of the SVE for purpose of getting out mass, by making differentiation between TPH versus VOC (i.e., is there increased efficiency when removing TCE by removing TPH.)</p> <p>Ms. Raker questioned whether or not if the Air Force should be cleaning up the TPH. Also, should some of the TPH wells be turned off and use the wells near the TCE plume. Is it necessary to extract the TPH?</p> <p>Ms. Raker asked if the Air Force should be</p>

ACTION ITEM LIST
(Action Items Closed)

ITEM #	RESPONSIBLE	ACTION ITEM	DUE DATE	STATUS
				<p>extracting the TPH-contaminated vapor. Mr. Sreenivasan stated that the annual report will delineate the TPH and TCE removal. The agreed upon action to be no further removal of TPH in the vapor phase at EW566, Site SD031.</p> <p>Item Closed.</p>
1.	Air Force	To provide a project timeline (Gantt chart) for the year.	14 January 2004	<p>Mr. Smith distributed the Travis AFB ERP 2004 Projects timeline (see Attachment 8). Mr. Smith reviewed the timeline and gave clarification when required.</p> <p>Mr. Salcedo asked when AMC would approve funds for the optimization of DP039. Mr. Smith stated that it is unknown at this time. Mr. Lucey stated that the agencies would be happy to draw up a letter supporting the optimization of DP039. Completed. Item Closed.</p>

ACTION ITEM LIST

(Action Items Open)

ITEM #	RESPONSIBLE	ACTION ITEM	DUE DATE	STATUS
1.	Air Force	To provide evaluation of the FT004 monitoring well (MW131x04) to be converted to an extraction well.	18 February 2004	Ongoing.
2.	Air Force	To develop a presentation on the CAMU to the RWQCB's landfill regulators.	24 March 2004	Pending. To be presented by Mr. Malsberger along with CH2M Hill and Shaw representatives. Tentative date is 24 March 2004.
3.	Air Force	Develop the NFRAP document for SS041.	May 2004	Ongoing.
4.	Air Force	To provide proposed locations for SS015 monitoring wells.	11 February 2004	The Air Force is still working with the agencies in determining the locations for the monitoring wells. Installation will include 2 new wells and the construction of the wells will begin in the summer 2004. Ongoing.
5.	Agencies	Letter emphasizing the need for the optimization of DP039.	Open	New Item.
6.	Air Force	Update SD042 schedule.	Open	New Item.