

**Travis Air Force Base
Environmental Management
Building 246, Upstairs Conference Room
Environmental Restoration Program
Remedial Program Managers Meeting
Meeting Minutes**

9 July 2003, 0930 Hours

Mr. Mark Smith, Travis Air Force Base (AFB), conducted the Remedial Program Managers (RPM) meeting held on 9 July 2003 at 0930 in Building 246, Upstairs Conference Room, 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)
- 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 Substance Control (DTSC)
- Mike Wray CH2M Hill
- Ross Overby URS
- John Turney Shaw Engineering and Infrastructure (SE&I)
- Chris Johnson On-Site Companies
- Greg Jones On-Site Companies

Handouts distributed throughout the meeting included:

- Attachment 1 Meeting Agenda
- Attachment 2 Master Meeting, Teleconference, and Document Schedules
- Attachment 3 SBBGWTP Monthly Data Sheet
- Attachment 4 CGWTP Monthly Data Sheet
- Attachment 5 NGWTP Monthly Data Sheet
- Attachment 6 Summary of Laboratory and Analytical Results (SS015/Hazardous Waste Accumulation Area and Oil/Water Separator)
- Attachment 7 Travis AFB – CH2M Hill Field Activities (July 2003)
- Attachment 8 Shaw Field Activities, Travis AFB (July – August 2003)
- Attachment 9 URS Field Activities, Travis AFB (June 2003)

1. ADMINISTRATIVE

A. Previous Meeting Minutes

The minutes from the June 2003 RPM meeting were approved with corrections 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, RW013 Remedial Action Report schedule response to comments due date was changed to “NA” (not applicable) and the draft final due date was changed to 8 July 2003.
- Page 1, Corrective Action Management Unit (CAMU) Phase I Project Summary Report schedule was established.
- Page 4, Update Community Involvement Plan final due date was changed to 11 July 2003.
- Page 6, Groundwater 5-Year Review final due date was changed to 15 July 2003.
- Page 6, Long-Term Operation (LTO) Strategic Plan (Update) final due date was changed to 7 July 2003.
- Page 7, SS015 Memorandum, SS014 Site-Specific Remedial Action (RA) Work Plan, SD045 Site-Specific RA Work Plan, LF007 Area C Off-Base RA Work Pan, and SS015 RA Work Plan 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 requested that the agencies review the revised Groundwater Protection Technical Memorandum and provide comments by 14 July 2003, in order that he may provide an update to the Restoration Advisory Board (RAB) members.

Mr. Lucey stated that he would submit his comments by 21 July 2003. It was agreed that the agencies' approval will be reflected in the RPM meeting minutes.

Mr. Malsberger stated that an agreement was reached between the Air Force and the agencies that there is no need for soil actions such as excavation to protect groundwater. The soil gas at SS015 can be addressed by a groundwater action.

b. Ecological Protection Technical Memorandum

Mr. Malsberger stated that the Ecological Protection Technical Memorandum will be submitted 31 July 2003. Ms. Raker asked what the next steps will be with the Ecological Protection Memo. Mr. Malsberger stated that the next step will depend upon the agencies' response to the draft report. Ms. Raker suggested that the Air Force schedule a preliminary meeting prior to the agencies' submitting their comments.

Mr. Roger Johnson suggested that prior to the submittal, the Air Force brief the agencies on the draft, address the agencies concerns, and submit the draft with all concerns addressed. This would eliminate the need for the agencies to develop comments. Mr. Lucey stated that that would require the agencies to receive a pre-draft.

Mr. Overby suggested that the agencies review the draft in detail and that the Air Force give a presentation on the key findings of the study. This would be a working meeting where the authors would be available to answer questions and/or provide clarification, and specific decisions for the need for remedial actions at the sites could be made.

It was agreed that the draft will be submitted on 31 July 2003, though this may be delayed a few weeks pending further clarification of technical requests made by the agency risk assessors. The agencies' risk assessors will review the draft, and a meeting will be scheduled, if necessary. Mr. Malsberger will set up a tentative meeting with the risk assessors in mid-September 2003. Mr. Smith suggested that a kick-off meeting be scheduled for 10 September 2003.

2. LTO Strategic Plan and Five-Year Review

Mr. Malsberger stated that the final LTO Strategic Plan will be submitted to the agencies on 7 July 2003.

Mr. Malsberger stated that the final Five-Year Review report will be submitted on 15 July 2003.

3. CAMU Phase I Summary Report

Mr. Malsberger stated that the CAMU Phase I Summary Report was submitted on 30 June 2003 and comments are due 30 July 2003. If there are no comments, this report will become final.

This report covers all of the Phase I CAMU and the construction of the CAMU such as regrading of the area, trenches, removal of debris, and installation of wells and interceptor trench. It does not include LF007C.

3. CURRENT PROJECTS

A. South Base Boundary Groundwater Treatment Plant

Mr. Sreenivasan reported that the South Base Boundary Groundwater Treatment Plant (SBBGWTP) performed at 99.9% uptime with approximately 6.7 million gallons of groundwater extracted and treated during the month of June 2003. The average flow was 155 gallons per minute (gpm). Approximately 2.3 pounds of volatile organic compounds (VOCs) were removed during the month of June 2003. The total mass of VOCs removed since startup of the system is 221 pounds (see Attachment 3).

The key operation and maintenance (O&M) issues for this month are as follows:

1. The high-level float switch in the air stripper sump was activated resulting in a 30 minute shutdown of the air stripper unit and the plant. The level transducer was found to be faulty. Following inspection and cleaning of the transducer, the unit was reassembled and the air stripper was started.
2. The variable-frequency drive for extraction well EW07x29 failed and was replaced with a unit from the inventory.

Ms. Raker asked if the Air Force will start irrigating at the SBBGWTP. Mr. Sreenivasan stated that yes irrigation has started at Ms. Settles' property.

B. Central Groundwater Treatment Plant

Mr. Sreenivasan reported that the Central Groundwater Treatment Plant (CGWTP) performed at 100% uptime with approximately 3.67 million gallons of groundwater extracted and treated. The average flow for the CGWTP was 85.1 gpm during June 2003. Approximately 285 pounds of VOCs (of which 267 pounds were from vapor) were removed during June 2003. The total mass of VOCs removed since startup of the system is 2,899 pounds (see Attachment 4).

No plant shutdowns were experienced in the month of June.

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 10 June 2003, had an influent trichloroethene (TCE) concentration of 190 parts per million by volume (ppmv). This is the highest TCE vapor concentration seen since the start of focused extraction activities in October 2002, when the TCE concentration was 96 ppmv.

A short duration (four hours) restart of West Treatment and Transfer Plant (WTTP) blower was conducted on 5 June 2003 to determine the impact of the WTTP blower operation in groundwater extraction flow rate. The test indicated that there was no increase in groundwater flow rates from the WTTP extraction wells with the blowers in operation. A vapor influent sample was also collected on 5 June 2003 to investigate contaminant rebound. Analytical results indicated a TCE concentration of 0.039 ppmv. At these low concentrations, vapor mass removal from the WTTP will be around 3 pounds per year, which makes the blower operation uneconomical. Based on this information and the low concentrations involved, it is recommended that the WTTP blowers be shut down and rebound samples collected and analyzed again in approximately three months.

Approximately 1.68 million gallons of the 3.67 million gallons of the treated water were used for irrigation during the month of June. The remainder was discharged to the storm drain.

C. North Groundwater Treatment Plant

Mr. Sreenivasan reported that the North Groundwater Treatment Plant (NGWTP) performed at 100% uptime with approximately 1.2 million gallons of groundwater extracted and treated during the month of June 2003. The average flow for the NGWTP was 26.9 gpm during June 2003. Approximately 44.9 pounds of total VOCs (of which 43.4 pounds were from vapor) were removed during June 2003. The total mass of VOCs removed since startup of the system is 285.1 pounds (see Attachment 5).

All the soil vapor extraction wells except EW566x31 that are connected to the NGWTP plant were in operation in June. On 25 June 2003, extraction well EW566x31 was brought on line for soil vapor extraction for approximately 30 minutes to take photoionization detector (PID) readings to verify that contaminant concentrations are well above an acceptable level for vapor-phase granular activated carbon treatment, so EW566x31 was taken off line to avoid excessive loading of the carbon at the plant.

All treated water was diverted to the Duck Pond during June for beneficial use.

Ms. Raker asked if the total petroleum hydrocarbon (TPH) issue at the NGWTP has been addressed. Mr. Sreenivasan said yes.

Mr. Sreenivasan stated that the Air Force will bring the CatOx system on board at the NGWTP. This unit will allow the extraction and treatment of groundwater from the area of the north plant that contains high concentrations of non-chlorinated hydrocarbons. The Air Force will monitor the action to ensure that the contaminants do not adversely affect the CatOx system.

D. WABOU Soil Remedial Actions – Summer 2003 Work Timeline

Mr. Anderson provided updates on the West Annex Basewide Operable Unit (WABOU) soil remedial actions.

- LF008 – Excavation of debris has been completed. Confirmation samples indicate that the action is achieving industrial levels. The Air Force will evaluate the cost effectiveness of reaching residential levels. An email will be sent on the status of this action. This site was available for touring after the RPM meeting.
- SD042 – This project will begin on 14 July 2003 and last approximately one week.
- SS041 – Environmental Chemical Corporation has prepared the site for soil removal. The highest contaminant concentration is between the building and the concrete pad – requiring the digging to be done by hand. Residential levels were met for the majority of the site; the excavations have been backfilled and restored. One hot spot exceeded industrial cleanup levels and two hot spots exceeded the residential cleanup levels. It is currently unknown how deep the contamination is; therefore, the Air Force will conduct incremental sampling and determine if further excavation can be done economically. The contaminated soil was placed into the CAMU.
- SD045 – This site will not be addressed this summer due to insufficient funding. Also, if funding is obtained later this summer, the CAMU will be closed by the time the action could be implemented and the contract will expire. The Air Force will program a new cleanup project and begin this action when the North, East, West Industrial Operable Unit (NEWIOU) soil remedial actions place contaminated soil into the CAMU Phase III (summer 2006).
- SS015 – Soil excavation is completed and backfill is ongoing. The confirmation sampling has been completed and the soil was acceptable for placement into the CAMU. Mr. John Turney distributed a handout titled Summary of Laboratory Analytical Results (SS015/Hazardous Waste Accumulation Area and Oil/Water Separator) (see Attachment 6), which depicts the confirmation sampling results.

➤ CAMU Phase II – Phase II of the CAMU is now receiving soil.

Mr. Malsberger stated that the original plan for the CAMU was to do a Phase 3 (high relative risk soil sites) and Phase 4 (medium/low relative risk soil sites). The Air Force may be able to condense the plan into just a Phase 3.

Ms. Raker asked when the cap for CAMU Phase 2 will be completed.
Mr. Malsberger stated by the rainy season of 2003, probably by early October.

E. Haloprobe

Mr. Anderson stated that the haloprobe project is on track, and work will begin at DP039 and SS015. A presentation will be given on the field work. Mr. Anderson will keep the agencies updated on the status via email.

Mr. Malsberger stated he was informed by Mr. Patrick Haas that Mr. Don Campbell and Mr. Jerry Hanson of AFCEE were looking for areas to gather microbial samples for a specific microbe (*dehalococoides ethenogenes*), which has the ability to break down chlorinated solvents [TCE to ethene]. AFCEE will be conducting the sampling in conjunction with the haloprobe activity at SS015.

F. RW013 Soil Remedial Action Report Status

Mr. Anderson stated that no comments were received on the RW013 Soil Remedial Action Report status; however, a suggestion from the U.S. EPA was incorporated. Change-out pages to convert the document from draft to draft final were distributed to the agencies.

Mr. Anderson stated that this remedial action report also serves as a site closure report. In accordance with U.S. EPA Guidance and Basewide Remedial Design/Remedial Action Plan, U.S. EPA is required to provide a properly signed letter stating that this is a closed site. Mr. Lucey stated that he would have to determine if this would be proper.

Mr. Roger Johnson stated it is AFCEE's preference to have a closure letter to finalize the closure of the site and to avoid questions in the future.

It was agreed that U.S. EPA and DTSC would check on the requirement for site closure documentation.

G. Community Involvement Plan Update

Mr. Anderson stated that the Community Involvement Plan has been submitted to CH2M Hill for publication. The Air Force was able to conduct eight interviews, which included one interview with participation from a regulatory agency representative. The update will be completed by mid-July.

Mr. Smith commended Mr. Anderson on his efforts.

H. LF007C

Mr. Malsberger stated that the paperwork to conduct the on-base portion of the action is in place and work is ready to proceed.

The paperwork for the off-base portion of the work is in place; however, the Air Force is waiting for an easement or a right of entry to allow the installation of the equipment off base. The contract has been extended to November 2003 to accommodate the work should an easement or a right of entry be obtained.

I. July 2003 Guardian and RAB Update

Mr. Sreenivasan stated that the newsletter is on schedule. This will be the first in-house production after a two-year gap. A RAB meeting will be held on 24 July 2003 at the Northern Solano County Association of Realtors in Fairfield, California. The pre-dry run and dry run for the RAB are 10 July 2003 and 17 July 2003, respectively.

Ms. Raker suggested that information on the Petroleum Program be presented at the October 2003 RAB meeting. Ms. Raker volunteered to discuss tank closures, how RWQCB is addressing the POCOs sites, and to discuss Geotracker to let the RAB know that the Air Force is complying with the state regulations.

4. PROGRAM ISSUES UPDATE

A. FT005 Plume

Mr. Smith stated that Travis AFB was able to conserve funds by performing work in-house, resulting in enough funds to conduct work at FT005. The next step is to have Air Mobility Command (AMC) reassign the funds to FT005.

B. CAMU Phase II Kickoff

There will be an internal CAMU Phase II Kickoff meeting on 14 July 2003, between Shaw, CH2M Hill, and Travis AFB.

C. Optimization Activities/Further Action

Mr. Malsberger stated that Ms. Raker and Mr. Lucey have requested that Travis track the "optimization activities/further action" items identified in the Groundwater Five-Year Review. It was agreed that in the future, the PROGRAM ISSUES UPDATE portion of the monthly RPM agenda will include an item for optimization activity tracking. The primary optimization

activity at this time is obtaining additional groundwater and soil gas data at sites SS015 and DP039 with the haloprobe demonstration project next week.

D. Duck Pond

Mr. Smith stated that dredging of the Duck Pond has caused a non-native weed to accelerate its growth. The Air Force is planning to use herbicide to kill the plant without harming the fish.

E. Former Skeet Range

Mr. Anderson stated that the Air Force has a new area of concern, known as the former skeet range, which is located southeast of the current skeet range. The U.S. Department of Defense has set up a program to address all unexploded ordnance sites and all former ranges of any type.

The Air Force has conducted a preliminary investigation and site inspection. This site was recommended to be a low priority and may not be programmed until fiscal year 2011.

The *Vacaville Reporter* ran an article titled “Unexploded Munitions Posed Threat.” The article contained several inaccuracies and the paper retracted the article in the next day’s paper. (This issue will also be on the agenda for the July RAB meeting.)

F. Documents for Agency Review

None.

G. Field Activity Reports

Mr. Smith distributed the field activity reports from CH2M Hill, SE&I, and URS (see Attachments 7, 8 and 9).

ACTION ITEM LIST

(Action Items Open)

AGENDA	RESPONSIBLE	ACTION ITEM	DUE DATE	STATUS
1.	Air Force	To provide an Ecological Protection Technical Memorandum	31 July 2003	Ongoing.
2.	U.S. EPA/DTSC	Check on the requirement for site closure documentation.	10 September 2003	New item.