

Final

**Meeting Minutes
Travis Air Force Base
Installation Restoration Program
Restoration Advisory Board (RAB) Meeting
Fairfield Suisun Chamber of Commerce
Fairfield, California
20 April 2000**

RAB members present:

NAME	AFFILIATION	PRESENT
Brickeen, Allen	Travis Air Force Base, RAB Co-chair	✓
Whalen, Jim N.	Mayor Fleming's Office in Vacaville, RAB Community Co-chair	✓
Job, Brad	Regional Water Quality Control Board	✓
Flores, Lalo	BDC Marine	✓
Kanouff, David F.	National Association of Retired Federal Employees	
Lucey, John	U.S. Environmental Protection Agency	✓
Marianno, David	Suisun City Resident	✓
Peconom, John	U.C. Davis Student	✓
Rued, Emily	Vacaville Unified School District	
Rundlett, John	Suisun City Council	
Salcedo, Jose	Department of Toxic Substances Control	✓
Taylor, William W.	Travis Unified School District	✓

Public Members present:

Agencies and Contractors present:

- Glenn Anderson Travis AFB
- Wilford Day Travis AFB
- Dale Malsberger Travis AFB
- Kevin Jackson Travis AFB
- Kevin Neurer Travis AFB
- Lonnie Duke Travis AFB
- Christopher Hobbins Air Force Center for Environmental Excellence (AFCEE)

- Sarah Byrum AFCEE
- Ron Davis Informatics
- Daryl Greenway CH2M HILL
- Wayne Williams CH2M HILL
- Gregory Grace Roy F. Weston, Inc.

INTRODUCTION, WELCOME, AND INTRODUCTION OF ALTERNATES

Welcome and Introductions

Mr. Allen Brickeen called the meeting to order. Mr. Christopher Hobbins introduced Ms. Sarah Byrum who is the contracting officer for AFCEE.

Mr. Brickeen gave an overview of tonight's agenda.

Approval of Minutes

The January 2000 RAB minutes were approved and finalized.

Additional Agenda Items and Questions

Mr. Jim Whalen asked if the pesticide contamination originating from the agricultural areas surrounding the base have been monitored. Mr. Brickeen stated that they have been.

Mr. Dale Malsberger stated that during the investigation of Union Creek, pesticide runoff north of the base flowing into the duck pond and Union Creek was discovered. Pesticides were detected in the southern end of Travis AFB. Ms. Lynn Suer, who was the previous Regional Water Quality Control Board (RWQCB) program manager, investigated the impact to the bio-life within the streams located downstream, along with other creeks in the area. Ms. Suer found that pesticides were generally found everywhere in the area.

Mr. David Marianno asked if the drainage near Meridian Road on the north side of base is impacted by the runoff. Mr. Brickeen answered yes.

Mr. Brad Job stated that as part of the National Pollution Discharge Elimination System permit, Travis AFB is required to sample receiving water (Union Creek) and compare it to the water from the groundwater treatment system. The RWQCB is concerned about diazinon, which has the greatest impact, but it does not appear to be a chemical of concern in the area.

DISCUSSION TOPICS

WABOU Record of Decision Progress

Mr. Glenn Anderson presented an update on the progress of the draft West/Annexes/Basewide Operable Unit (WABOU) Soil Record of Decision (ROD).

Major Issues to be Resolved

Mr. Anderson stated that the following are the major issues still to be resolved:

- **Cleanup Levels** — During the January 2000 RAB meeting, it was stated that Travis AFB would submit revised cleanup tables by mid-February 2000. Issues that affect cleanup values are still being discussed.
- **Corrective Action Management Unit (CAMU)/Staging Piles** — Travis AFB submitted a CAMU proposal on 5 April 2000 that has received favorable regulatory comments. Travis AFB and the regulatory agencies refined this proposal during a 12 April 2000 working meeting.
- **Ecological Issues** — Comments were received on 23 February 2000. Ecological issues were discussed during the 8 March 2000 teleconference.

Mr. Anderson stated that the revised draft WABOU Soil ROD will be submitted on 28 April 2000. It will address the revised cleanup levels, revised CAMU approach, and the revised ecological discussion.

Minor Issues to be Resolved

- **Skeet Range** — Travis AFB and the regulatory agencies agreed to remove the skeet range from the ROD and to treat it as a separate site.
- **Reservoir Facilities 1514/1518** — Travis AFB and the regulatory agencies agreed to remove Reservoir Facilities 1514/1518 from the ROD and to treat it as a separate site.

Mr. William Taylor asked why the skeet range was pulled out of the ROD. Mr. Anderson stated that the skeet range was removed because of the issues concerning its long-term future. Mr. Brickeen stated that the skeet range is still open for limited operation, i.e., steel shot can be used on the range instead of lead shot.

Sections Undergoing Review

Mr. Anderson stated that the following sections are under review:

- Section 5.4 (Temporary Soil Storage Area) — comments received;
- Section 5.10 (RD/RA Implementation and Schedule) — comments received;
- Section 5.11 (Documentation of Significant Changes) — comments received;
- Revised Table II-3-2 (COCs, COECs, and potential risks at WABOU Soil Sites) — comments received; and
- Building 916 PCB Technical Memorandum— comments received and the document has been finalized.

There were no questions.

Potrero Hills Tank Closeout

Mr. Anderson stated that two underground storage tanks (USTs) were decommissioned and removed from Potrero Hills Annex in 1991. A Travis program review revealed that there were no closure documents for these sites. Travis AFB submitted supporting data for tank closure to the state water board. The water board reviewed the existing data and submitted closure letters for these sites.

Recap of the WABOU Soil Remedial Actions Public Meeting

Mr. Anderson stated that the WABOU Soil Remedial Actions Public Meeting was held at the Fairfield-Suisun Chamber of Commerce on 15 March at 7 p.m. The purpose of the meeting was to present major changes to remedial actions at two sites, SD043 and SS046 (emergency generator facility and railhead munitions staging area, respectively). The public comment period was from 23 February to 24 March 2000. Travis AFB published and mailed a Fact Sheet that described details of remedial action changes to 1,200 community members. A public notice was also placed in local newspapers. One public member (Mr. Dave Kanoff) attended the meeting.

Mr. Anderson reported that the cost of the public meeting was \$3,760. The cost of distributing the Fact Sheet was \$2,917.

Mr. Anderson stated that there will also be a meeting for the North/East/West Industrial Operable Unit (NEWIOU) since there will be similar changes to the original NEWIOU Proposed Plan.

Mr. Taylor asked if it is possible to combine the public meeting with a RAB meeting.

Mr. Brickeen answered that Travis AFB usually combines public meetings with RAB meetings; however, it was not done for the WABOU Soil Remedial Actions in order to fit the public meeting into the schedule to complete the WABOU Soil ROD.

Cleanup Program Status

Treatment Plant Startup and Schedule

Mr. Brickeen reported that all four groundwater treatment plants are in operation. The West Treatment and Transfer Plant (WTTP) and the North Groundwater Treatment Plant (NGWTP) were brought online during the last couple of months. (A poster board was displayed that depicts the location of the four treatment plants and the plumes they addressed.)

- The Central Groundwater Treatment Plant (CGWTP) treats high concentrations of trichloroethylene (TCE) using an ultraviolet oxidation (UV/Ox) system.
- The South Base Boundary Groundwater Treatment Plant (SBBGWTP) treats the two off base groundwater plumes.
- The NGWTP treats the former fire training area and the transformer repair facility. The treated water is used for irrigation. This treatment plant uses a vapor phase system and is scheduled to address the LF007 off-base groundwater plume in 2001.
- The WTTP treats the plume located on the western part of Travis AFB.

The following statistics were given for each plant:

	SBBGWTP	CGWTP	WTTP	NGWTP
Startup Date	*December 1997	July 1998	February 2000	March 2000
Total VOC removed	79 lbs	456 lbs	5 lbs	1.5 lbs
VOC removed in March	4 lbs	19 lbs	5 lbs	1.5 lbs
Water Treated	130 gpm	90 gpm	60 gpm	24 gpm
Total Gallons	80 million	73 million	1.5 million	0.4 million

Lbs = pounds
gpm = gallons per minute
* = restarted

Mr. Brickeen commented that the treatment plants will operate for several decades.

Mr. Marianno asked if there was piping to treat the off-base portion of FT005 contaminated groundwater at the SBBGWTP. Mr. Brickeen answered no, but there will be in the future. Mr. Peconom asked how far into the future. Mr. Brickeen answered this summer.

Real Estate Action Status

Mr. Brickeen stated for site SS030, a signed and sealed real estate agreement is in place providing an easement for 40 acres for 30 years. There will be one additional extraction well installed this summer.

Sampling was conducted in the fall of 1999 at FT005. It was discovered that the plume was much larger than originally thought. The Air Force requested an increase in the size of the easement to 115 acres. This was approved and work is scheduled to begin this summer.

Mr. Peconom asked if the plume is fully delineated. Mr. Brickeen answered that it nearly was; however, the property owner had previously limited the base on its drilling efforts. Once the monitoring and extraction wells are installed, the plume will be fully delineated. Travis AFB anticipates installing approximately four additional extraction wells.

Explanation of Significant Differences

Mr. Malsberger gave an overview of the explanation of significant differences (ESD) for the NEWIOU and WABOU Groundwater Interim Records of Decision.

- The ESD addresses revised discharge limits for treated groundwater. The ESD has been finalized.
- The public comment period is from 29 March to 28 April 2000.
- There was an error in the newsletter; it used the term milligrams per liter, but should have used micrograms per liter. A correction will be included in the next newsletter. (The ESD that was provided to the public has the correct units.)
- Public notices were placed in three local newspapers.
- The ESD was placed in three local libraries and on the Travis AFB IRP web site.
- It was agreed to at the last RAB meeting if there were no comments, there would not be a public meeting. No comments were received.

Mr. Malsberger stated that at the end of the public comment period, a letter will be issued that will change the discharge limits in the NEWIOU and WABOU interim record of decision (IROD).

Cypress Lakes Golf Course Removal Action

Mr. Anderson stated that this removal action addresses pesticide contaminated soil. The work plan is in the process of being completed pending the finalization of the analytical model quality assurance project plan (QAPP). The removal action is tentatively scheduled to start in late summer 2000. Mr. Anderson commented that this action was the result of a request from the RAB.

DP039 Treatability Study

Mr. Anderson stated the DP039 Treatability Study is an Air Force Center of Environmental Excellence (AFCEE)-funded study that will evaluate the dual phase extraction system. Total mass removal rate of this system ranged from approximately 4.4

pounds per day to 76 pounds per day. Total mass removed at this site is approximately 254 pounds, of which 99.3% was in vapor. The study indicated that dual phase extraction works well.

A photo of the dual-phase extraction system was shown.

Mr. Peconom asked how dual phase works. Mr. Anderson explained that part of the system is similar to pump and treat. Other mechanisms apply a vacuum to the subsurface, drawing in the vapor.

Mr. Peconom asked what the cost comparisons were between pump and treat versus dual phase extraction system. Mr. Anderson stated that in regards to capital cost, the dual phase extraction system is more expensive during start up because of the carbon units. However, since it removes so much so quickly, it compensates the cost. Mr. Brickeen stated that groundwater operations cost approximately \$3 million per year. By removing the contaminants faster, in the long run there is a significant cost saving.

Mr. Job stated that dual phase extraction is the best technology that has been brought into environmental cleanup.

Mr. Peconom asked if there is any down side. Mr. Anderson answered only that the dual phase extraction unit that AFCEE selected for the treatability study is old and will be replaced with a modern below ground system.

Mr. Brickeen stated that this unit draws the contaminant down in the vapor phase relatively quickly, resulting in a shorter operational period. However, this will not replace the pull treatment of the entire plume. Mr. Salcedo commented that the amount of contamination treated will eventually decrease and then the system will be replaced by older technology to handle the rest of the contamination.

Mr. Lucey asked what types of pumps are used for the vapor extraction system. Mr. Malsberger stated that the WIOU used an eductor system. Mr. Job stated that the system uses a liquid-ring pump, which pumps water and draws a vacuum simultaneously.

Future system will be stream lined and built underground.

Mr. Peconom asked how long Travis AFB will use the dual phase extraction system. Mr. Anderson said this mobile unit is temporary. The follow-on system that will be designed and installed this summer will be used until it is no longer effective.

Skeet Range

Mr. Anderson stated that Travis AFB has limited the use of the range to steel shot only and environmental-friendly clay pigeons. Travis AFB Rod and Gun Club has submitted a proposal to the base to mitigate the vernal pool in order to remove the potential ecological risks posed by lead shot. This site has been removed from the WABOU Soil ROD to determine the long-term future use of the site.

Ecological Site Visit

Several regulatory ecological experts visited five IRPs sites in late March 2000. The purpose of the visit was to better understand the ecological issues on Travis AFB. Issues were resolved concerning the former small arms range treatability study. AFCEE funded the study for identifying cleanup requirements at Air Force small arms ranges based on risk.

This should promote the finalizing of the WABOU Soil ROD and the acceptance of the conclusions of the study.

Regulatory Agency Reports

Mr. Job stated that he has been reassigned to Hunters Point. Mr. Job commented that Travis AFB is doing a great job and the RAB is fortunate in having Mr. Brickeen.

Mr. Salcedo stated that there is a new community relations specialist, Ms. Patricia Ryan who replaced Ms. Celeste Albanez. Ms. Ryan will attend RAB meetings and will be the public participation point of contact for DTSC.

Mr. Lucey had no report.

Schedule Review

Mr. Brickeen presented and explained the Microsoft Project[®] schedules for the various remedial actions on Travis AFB.

- LF007 Remedial Design — The landfill cap design was contracted out several years ago. The period of performance for the contract will expire at the end of this year, before the NEWIOU Soil ROD is signed. Currently Travis AFB is working with the regulatory agencies to do the landfill cap and CAMU design now. A draft design package will be submitted to the regulatory agencies and RAB to review in November 2000. Travis AFB will program for additional funds for next year in order to complete the design after the final ROD is signed.
- South Base Boundary Groundwater Actions — Travis AFB completed the real estate easement and is currently completing the remedial design, which should be finished by the end of May 2000. The remaining work will start during the summer of 2000.
- FT005 — Additional real estate work will be accomplished. A directive from the Pentagon was received; currently the Army Corps of Engineers is obtaining an appraisal and will negotiate with the property owner to complete the easement by the end of June 2000. Travis AFB has tentatively scheduled soil actions for the summer of 2000.

Mr. Brickeen stated that currently Travis AFB is on or ahead of schedule on all these projects.

Critical Path WABOU Soil Remedial Action Timeline

Mr. Brickeen reviewed the critical path WABOU soil remedial action timeline.

- Cypress Lakes Soil Action — to start in late July 2000. It should take less than 60 days to complete.
- WABOU Soil ROD — A revised draft will be submitted for review. Once comments are received, a final will be submitted to the agencies for signatures. This is to be completed by the end of August 2000.
- Once RODs are signed, a schedule will be developed for the work efforts. There will be institutional controls stating how sites are to be maintained.
- Testing is taking place to determine what level of contamination can be placed in the CAMU without impacting the groundwater and levels that can be left in the soil without further contamination.
- The Soil RD/RA plan provides the general basis for everything that will be done for designing, excavating, sampling, transportation, and placement.
- Phase 1 of the CAMU entails placing the soil in the CAMU for temporary storage.
- Phase 2 of the CAMU entails transporting the soil to the final CAMU sites and constructing a new cap over the soils. This takes place after the final (NEWIOU) ROD.
- Actual excavation of soil at sites in the WABOU will take place in the summer of 2001.

Mr. Brickeen stated that these schedules will be updated and brought to each RAB meeting for review.

Mr. Brickeen previously sent out a letter to the RAB members describing the status of Travis AFB environmental work efforts. Mr. Brickeen will continue to send out this letter along with the project schedules in order that the RAB members are kept up to date in between RAB meetings.

Focus Group Reports

Mr. Kevin Jackson stated that the Community Relations focus group agreed to build the RAB back up to 20 members. (Currently there are 8 community and 3 regulatory members.)

Discussion took place on how to select individuals for the RAB. It is Mr. Jackson's goal to recruit members and have them in place by the next RAB meeting on 20 July 2000.

Mr. Taylor asked if there is a limit to 20 members. Mr. Jackson stated no. Mr. Taylor suggested that the RAB allow anyone and everyone who is interested in the RAB to become members.

Mr. Brickeen suggested that Travis AFB solicit applications and make a decision from the submitted applications. Mr. Lucey suggested placing the new members on a probationary period to determine if they fit.

Mr. Jackson also requested that the existing RAB members send an alternate whenever they are absent.

It was agreed to recruit new members through news releases, public notices, and web site notices, and through letters targeted to organizations and groups currently not represented on the RAB.

Mr. Salcedo suggested that recruitment could also take place during the interviews for the updating of the Community Relations Plan. Additional suggestions were to recruit from residents of Travis AFB, Ducks Unlimited, Friends of the Marsh, and residents of Jepson Prairie.

Budget

Mr. Brickeen stated that he will be working on the budget for next year with AMC. Mr. Brickeen stated that he is unsure of how it will turn out since there will be significant cuts to the restoration program over the next two years. Mr. Brickeen will give an update at the next Budget focus group meeting and in the status letter.

Mr. Salcedo asked if Mr. Brickeen will attempt to obtain fallout funding if available. Mr. Brickeen answered yes. Currently Travis AFB is approximately \$180,000 short on FT005. This will be his focus.

Mr. Salcedo asked if other projects are lined up if there are fallout funds. Mr. Brickeen answered yes. This usually happens with operation and maintenance projects, which releases funds for next year. This has typically happened in the past.

RAB/Public Questions

There were no public or RAB questions during this time.

Mr. Brickeen announced that the Base Commander has invited all environmental regulatory agencies to Travis Day on 27 April 2000. This is an opportunity for agency representatives to get a first-hand look at the environmental programs on Travis AFB. There will be a presentation and a tour of the base. Mr. Brickeen added that the Base Commander is very community-oriented.

Set date and place for next RAB meeting

The next RAB meeting will be 20 July 2000 at the Fairfield Senior Center.