

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

20 November 2013, 0930 Hours

Mr. Mark Smith, Travis Air Force Base (AFB), conducted the Restoration Program Manager's (RPM) meeting in Building 248, on 20 November 2013 at 0930 hours, at Travis AFB, California.

Attendees included:

- Mark Smith Travis AFB
- Glenn Anderson Travis AFB
- Lonnie Duke Travis AFB
- Gregory Parrott Travis AFB
- Erin Hernandez Travis AFB
- Jim Spellman Travis AFB
- William Hall AFCEC/CSRW
- Dezso Linbrunner USACE-Omaha
- Adriana Constantinescu 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)
- Loren Krook CH2M HILL
- Mike Wray 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 (September/October 2013)
- Attachment 4 CGWTP Monthly Data Sheet (September/October 2013)
- Attachment 5 NGWTP Monthly Data Sheet (September/October 2013)
- Attachment 6 ST018 Monthly Data Sheet (September/October 2013)
- Attachment 7 Presentation: Program Update: Activities Completed, In Progress and Upcoming

1. ADMINISTRATIVE

A. Previous Meeting Minutes

The 18 September RPM meeting minutes were approved and finalized as written. Note: The October RPM meeting had been cancelled due to the government shutdown.

Mr. Smith welcomed everyone to the new Installation Support Team building and announced that the Restoration staff is no longer part of 60 CES. Restoration personnel are still in the process of transferring over to the Air Force Civil Engineer Center (AFCEC) where environmental quality and restoration work is being centrally managed. Mr. Smith also announced Mr. Gregory Parrott's retirement early next year and thanked him for his many years of excellent service. Mr. Smith introduced Mr. Parrott's replacement, Ms. Erin Hernandez.

B. Action Item Review.

Action items from September were reviewed.

Action item 1 still open: Travis AFB to research beneficial reuse of treated water. AFCEE is in agreement with treated water reuse using Defense Environmental Restoration Account (DERA) funds under the authority of a "net-zero policy" for the Air Force. Update, 16 January 2013: Mr. Duke said that an Air Force energy reduction contractor is looking into the cost of installing a pipe to convey treated water from the central plant to the duck pond. Update, 20 March 2013: Mr. Duke said Travis AFB is looking into energy management projects with respect to ways of reducing water usage. Due date changed to TBD. Update, 18 April 2013: Mr. Smith said that they have the attention of Civil Engineering Operations Flight regarding beneficial reuse. 20 November 2013: No update.

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 22 January 2014 at 0930 hours. Travis AFB proposed a new 2014 RPM schedule and asked the regulators that if there are any scheduling conflicts to let Travis AFB know as soon as possible. Mr. Smith mentioned in previous RPM meetings the possibility of a teleconference every other month in lieu of meeting face to face, after the ROD was signed, but this is dependent upon the workload we experience under the new FY 13 PBC.

Travis AFB Master Document Schedule

- Groundwater Record of Decision (ROD): No change to the schedule. This document will be discussed in the meeting that has been scheduled this afternoon.
- 3rd Five-Year Review: Document has been finalized and will be moved to history.
- Potrero Hills Annex: (FS, PP, and ROD): No change to the schedule. Mr. Anderson said as far as he knows the RWQCB is still reviewing the most recent documents. Mr. Smith reminded everyone that Travis AFB is administratively overseeing the project and that is why it remains on the agenda and monthly updates are provided. Ms. Constantinescu asked if Travis AFB is receiving documents from RWQCB. Mr. Anderson said yes and added that Travis AFB would like to be informed in advance of all meetings.

Ms. Burke said administratively this site was never taken out of the CERCLA process and is still considered part of EPA's headquarters (HQ) programming. Adding EPA does not have any legal documentation of this site being transferred out of the CERCLA program. Because this site is considered an operable unit (OU) in EPA's program, it can hold up all of our site targets for Travis AFB. Mr. Anderson said that Ms. Suzette Leith, an EPA attorney, and Ms. Bobbie Smith, EPA main lead, met with Travis AFB Restoration staff in a December 1997 meeting and proposed to temporarily transfer this site out of the CERCLA program (the Defense Environmental Restoration Program) and allow all Potrero Hills environmental cleanup activities to be managed under a RWQCB administrative order until the environmental issues at Potrero Hills had been resolved. Travis AFB agreed to EPA's proposal. Mr. Anderson mentioned that this agreement was made before the WABOU ROD was signed. Mr. Anderson said as soon as Potrero Hills has been cleaned up to RWQCB criteria, it will be added back into the CERCLA program and follow its schedule as shown in the Travis AFB Master Meeting and Document Schedule. Ms. Constantinescu explained it made sense when EPA recommended Potrero Hills transfer to RWQCB. The law had been written in California keeping in mind the business cycle for cleanup. The state has three steps to follow for cleanup while the CERCLA process has nine steps. Because EPA HQ has concerns about site closures, there are examples of other sites that followed this pathway.

- Old Skeet Range Action Memorandum: Moved to history.
- Subarea LF007C and Site SS030 Remedial Process Optimization Work Plan: The Response to Comments and Final Due dates were changed to reflect the actual dates. Document will be moved to history.
- Quarterly Newsletter (January 2014): All new dates to reflect the 1st quarter of 2014. Mr. Spellman suggested the Quarterly Newsletter to be posted to the

Travis AFB environmental website. Mr. Anderson replied the newsletters are already regularly posted to the website.

- The 2012 Groundwater Remediation Implementation Status Report (GRISR): Moved to history.
- Kinder Morgan LF044 Land Use Control Report: No change to the schedule. Travis AFB is working on the responses to comments received from EPA.
- Pre-Design Site Characterization of SS029 Report: Moved to history.
- Old Skeet Range Removal Action Work Plan: No change to schedule. This document will be discussed later this afternoon.

2. CURRENT PROJECTS

Treatment Plant Operation and Maintenance Update

South Base Boundary Groundwater Treatment Plant (see Attachment 3)

September: The South Base Boundary Groundwater Treatment Plant (SBBGWTP) performed at 100% uptime, and 3.6 million gallons of groundwater were extracted and treated during the month of September 2013. All of the treated water was discharged to Union Creek. The average flow rate for the SBBGWTP was 89.5 gallons per minute (gpm). Electrical power usage was 2,399 kWh (*electrical power usage maybe incorrect, readings inconsistent, suspect faulty meter, in process of procuring a new one*) and approximately 3,286 pounds of CO₂ were created (based on DOE calculation). Approximately 0.45 pounds of volatile organic compounds (VOCs) were removed in September. The total mass of VOCs removed since startup of the system is 440 pounds.

Optimization Activities: Site SS030 groundwater extraction and treatment system (GETS) optimization activities began in September 2013. The installation activities for the new extraction well, EW2174x30, began on 17 September 2013. Optimization activities at the site including installation of an extraction well vault, instrumentation, and a pipeline connecting it to the existing GETS will be postponed due to potential issues with the California Tiger Salamander habitat and with the oncoming winter weather. Mr. Wray said Travis AFB is trying to expedite the approval process with the US Fish and Wildlife Service.

October: The South Base Boundary Groundwater Treatment Plant (SBBGWTP) performed at 100% uptime, and 3.6 million gallons of groundwater were extracted and treated during the month of October 2013. All of the treated water was discharged to Union Creek. The average flow rate for the SBBGWTP was 75.8 gallons per minute (gpm). Electrical power usage was 14,520 kWh and approximately 19,892 pounds of CO₂ were created (based on DOE calculation). Approximately 0.72

pounds of volatile organic compounds (VOCs) were removed in October. The total mass of VOCs removed since startup of the system is 441 pounds.

Optimization Activities: No optimization activities are reported for the month of October.

Central Groundwater Treatment Plant (see Attachment 4)

September: The Central Groundwater Treatment Plant (CGWTP) performed at 100% uptime with approximately 975,000 gallons of groundwater extracted and treated during the month of September 2013. All treated water was discharged to the storm drain. The average flow rate for the CGWTP was 24.2 gpm. Electrical power usage was 1,231 kWh for all equipment connected to the Central plant, and approximately 1,686 pounds of CO₂ were generated. Approximately 2.68 pounds of VOCs were removed from groundwater by the treatment plant in September. The total mass of VOCs removed since the startup of the system is 11,343 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 September.

Optimization Activities for CGWTP: No optimization activities are reported for the month of September.

October: The Central Groundwater Treatment Plant (CGWTP) performed at 100% uptime with approximately 1.27 million gallons of groundwater extracted and treated during the month of October 2013. All treated water was discharged to the storm drain. The average flow rate for the CGWTP was 32.3 gpm. Electrical power usage was 1,827 kWh for all equipment connected to the Central plant, and approximately 2,503 pounds of CO₂ were generated. Approximately 2.62 pounds of VOCs were removed from groundwater by the treatment plant in October. The total mass of VOCs removed since the startup of the system is 11,346 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 October.

Optimization Activities for CGWTP: No optimization activities are reported for the month of October.

North Groundwater Treatment Plant (see Attachment 5)

September: The North Groundwater Treatment Plant (NGWTP) performed at 49.9% uptime with approximately 5,920 gallons of groundwater extracted and treated during the month of September 2013. The average flow rate at the NGWTP was 0.30 gpm and electrical power use was 372 kWh for all the equipment connected to the North plant; approximately 510 pounds of CO₂ was generated. Approximately 1.6×10^{-4}

pounds of VOCs were removed from the groundwater in September. The total mass of VOCs removed since the startup of the system is 174.3 pounds.

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

The NGWTP was turned off on 13 September 2013 at the request of the Air Force to facilitate maintenance at the Duck Pond.

North Groundwater Treatment Plant

October: The North Groundwater Treatment Plant (NGWTP) performed at 57.3% uptime with approximately 8,980 gallons of groundwater extracted and treated during the month of October 2013. The average flow rate at the NGWTP was 0.2 gpm and electrical power use was 594 kWh for all the equipment connected to the North plant; approximately 932 pounds of CO₂ was generated. Approximately 2.1×10^{-4} pounds of VOCs were removed from the groundwater in October. The total mass of VOCs removed since the startup of the system is 174.3 pounds.

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

Site ST018 Groundwater (MTBE) Treatment Plant (see Attachment 6)

September: The Site ST018 (MTBE) Treatment Plant (ST018 GWTP) performed at 68.7% uptime with approximately 67,600 gallons of groundwater extracted and treated during the month of September 2013. All treated water was diverted to the storm drain. The average flow rate for the ST018 GWTP was 2.44 gpm. Electrical power usage for the month was 75 kWh for all equipment connected to the ST018 GWTP plant, which equates to the creation of approximately 103 pounds of CO₂. Approximately 0.10 pounds of BTEX, MTBE and TPH were removed from groundwater in September from the treatment plant. The total BTEX, MTBE and TPH mass removed since the startup of the system is 25.0 pounds.

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

Optimization Activities for ST018: No optimization activities to report for the month of September.

October: The Site ST018 (MTBE) Treatment Plant (ST018 GWTP) performed at 100% uptime with approximately 194,800 gallons of groundwater extracted and treated during the month of October 2013. All treated water was diverted to the storm drain. The average flow rate for the ST018 GWTP was 4.21 gpm. Electrical power usage for the month was 123 kWh for all equipment connected to the ST018 GWTP plant, which equates to the creation of approximately 169 pounds of CO₂. Approximately 0.33 pounds of BTEX, MTBE and TPH were removed from groundwater in October from the treatment plant. The total BTEX, MTBE and TPH mass removed since the startup of the system is 25.3 pounds.

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

Optimization Activities for ST018: No optimization activities to report for the month of October.

Site LF007C Field Activities:

Mr. Duke gave an update of the field activities at Site LF007C. The new piping has been attached to the perimeter fence, where it crosses the vernal pool. The flow rate in extraction well EW615x07 has declined over the past couple of months due to a worn pump. In order to increase production from this well, the existing pump will be replaced with the pump currently installed in extraction well EW614x07 upon completion of the optimization activities at site LF007C. The existing pump in extraction well EW615x07 is the older of the two, and the flow rate is expected to increase as a result of this swap. Today, 20 November 2013, potholing is being conducted to find the discharge line to the Duck Pond. A sizeable upgrade is planned to the solar panels which will increase the flow rates.

Old Skeet Range Field Sampling Update:

Mr. Anderson gave an update on the Old Skeet Range Field Sampling. EPA gave conditional approval to Travis AFB to start field activities. Samples were collected according to a draft work plan, and some of the analyses came back with relatively high hits of PAHs. EPA received a copy of the results and the step out locations proposed. The extent of the contamination has not yet been identified. Excavation cannot begin until the scope of the contamination cleanup has been identified.

Presentations:

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. Updates from the briefing this month included:

Newly Completed Documents: 3rd Five Year Review, 2012 Annual Groundwater Remediation Implementation Status Report (GRISR), Subarea LF007C and Site SS030 Remedial Process Optimization Work Plan, Pre-Design Site Characterization of SS029 Report.

Newly Completed Field Work: 2014 GRIP Semiannual Sampling Event, Pump repairs to Site SS016 (well EW610x16).

In-Progress Documents: Groundwater Record of Decision, Old Skeet Range Removal Action Work Plan, Kinder Morgan LF044 Land Use Control Report.

In-Progress Field Work: LF007C optimization upgrades, Old Skeet Range Sample Collection.

Upcoming Documents: None.

Upcoming Field Work: None.

4. New Action Item Review

No new action items.

5. PROGRAM/ISSUES/UPDATE

Mr. Smith gave a brief overview on the new PBC contract. The PBC contract was awarded in FY13. It is an 8-year contract ending in September 2021. The contract will pick up where the current PBC contract leaves off, with remediation operations for groundwater. It also includes revisiting current land use controls (LUCs), as established by our past soil RODS, to evaluate if those LUC sites can be closed. Travis AFB inherited 12 former compliance cleanup areas of concern (oil/water separators) that will be conducted as RCRA cleanup actions if investigations determine contamination does exist at levels requiring an action. Mr. Salcedo asked if new ERP numbers for the oil/water separators were issued and when will they be an official part of the program. Mr. Smith said they already have numbers and are considered sites in our AFCEC database, but that technically, the oil/water separators are still AOCs. We are in the process of developing a management plan (internal document) that will identify the years we expect to start work on these oil/water separators, and we can extract a list and provide it to the regulators. Mr. Linbrunner said that the schedule for work in the new contract had to be aligned to fit the specific available annual funding profile of the Air Force.

Mr. Smith stated his gratitude to Mr. Parrott for his many years of service, and that he will greatly be missed. Adding that in the future it looks like AFCEC San Antonio will be providing legal support. Mr. Anderson said it will be difficult to transition to receiving legal advice from San Antonio, since their legal staff is not as familiar with Travis AFB as the local legal office. Mr. Duke added that the centralization has good aspects but having legal representation by someone who knows the base is very valuable. Ms. Burke asked if there is a new organizational chart. Mr. Smith said the organization is still taking shape but that he would provide an organizational chart to the regulatory agencies as soon as it is available.

6. Action Items

Item #	Responsible	Action Item Description	Due Date	Status
1.	Travis AFB	<p>Research beneficial reuse of treated water and give update. Update (13 June 2012): AFCEE is in agreement with treated water reuse using Defense Environmental Restoration Account (DERA) funds under the authority of a “net-zero policy” for the Air Force. Update (15 August 2012): Mr. Duke reported that irrigation lines were destroyed by a communications contractor and not repaired because the system was inactive. Travis AFB will get the system design information to determine if the trunk line is still intact and repairs can be made to get the system running. Update, 16 January 2013: Mr. Duke said that an Air Force energy reduction contractor will look into the cost of installing a pipe to convey treated water from the central plant to the duck pond. Update, 20 March 2013: Mr. Duke said Travis AFB is looking into energy management projects with respect to ways of reducing water usage. Due date changed to TBD.</p>	TBD	Open
2.	Air Force	<p>Provide organizational structure and signature authority to the regulatory agencies.</p>	22 January 2014	Open