

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

19 February 2014, 0930 Hours

Mr. Mark Smith, of the Air Force Civil Engineering Center (AFCEC) Restoration Support Team, conducted the Restoration Program Manager's (RPM) meeting in Building 248, on 19 February 2014 at 0930 hours, at Travis AFB, California. Attendees included:

- Mark Smith AFCEC/CZOW
- Glenn Anderson AFCEC/CZOW
- Lonnie Duke AFCEC/CZOW
- Erin Hernandez Travis AFB 60 AMW/JA
- William Hall (via phone) AFCEC/CZRW
- Dave Leeson (via phone) AFCEC/CZRW
- 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)
- 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 (January 2014)
- Attachment 4 CGWTP Monthly Data Sheet (January 2014)
- Attachment 5 NGWTP Monthly Data Sheet (January 2014)
- Attachment 6 ST018 Monthly Data Sheet (January 2014)
- Attachment 7 Presentation: Remedial Actions at Soil LUC Sites
- Attachment 8 Presentation: Program Update: Activities Completed, In Progress and Upcoming

1. ADMINISTRATIVE

A. Previous Meeting Minutes

The 22 January 2014 RPM meeting minutes were approved and finalized as written.

B. Action Item Review.

Action items from January were reviewed.

Action item 1 will remain open: AFCEC's Travis Restoration Team and Travis AFB will continue to pursue opportunities for the beneficial reuse of treated water. AFCEC is in agreement with using Defense Environmental Restoration Account (DERA) funds under the authority of a "net-zero energy policy" for the Air Force for the beneficial reuse of treated groundwater. Current possibilities include: Rerouting treated water from the central plant to the duck pond or as irrigation as an energy reduction project with the intent of reducing on-base water usage. Due date will remain TBD to ensure this action item remains visible. 22 January 2014: No update.

Action item 2 is closed.

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 19 March 2014 at 0930 hours.

Ms. Constantinescu said she will need to call in or have her section leader call in.

Travis AFB Master Document Schedule

— Groundwater Record of Decision (ROD): The response to comments (RTC) meeting date was changed from TBD to reflect the actual date. The Draft Final ROD was delivered to the agencies on 19 February 2014. Mr. Anderson said there is a thirty-day period for the Draft Final ROD to be signed by the designated signing authorities which is typical for this type of decision document and encouraged the agencies to adhere to the schedule. It was agreed by the agencies that all signatures need to be on one signature sheet. The agencies requested to be informed on the rotation of the signature page, to allow time to schedule a meeting with their respective signers. EPA has two issues that to date have not been resolved so there is a possibility of the ROD

going into dispute. The signature order will be: Travis AFB Wing Commander, EPA, DTSC and RWQCB. Mr. Smith asked Ms. Hernandez how long it typically takes to route a document to the Wing Commander for signature. Ms. Hernandez said typically two weeks.

- Potrero Hills Annex: (FS, PP, and ROD): No change to the schedule.
- Site CG508 POCO Work Plan: New document. New dates populated. This is a petroleum-only site that receives RWQCB oversight. This Work Plan (WP) will be in a Uniform Federal Policy - Quality Assurance Project Plan (UFP-QAPP) format. This format will be used to develop the WP and field sampling plan. AFCEC has directed the use of this format for all future WPs. Travis AFB is requesting the agencies to comment on the structure/format of the document. Mr. Hall said that EPA and the Air Force looked at the 37 tables in the QAPP and are aware there are duplications, so there is movement to eliminate redundancies and decrease the size of the WPs. Mr. Wray said that this WP is using the existing Travis QAPPs through a UFP-QAPP crosswalk table. CH2M HILL is currently working on combining the two existing Travis AFB QAPPs into one, using the UFP-QAPP format.
- Quarterly Newsletter (April 2014): All new dates have been entered to reflect the 2nd quarter of 2014. The Newsletter is going out a little early to support the RAB. The newsletter will focus on the ROD; the content will be based on the ROD going final or entering into dispute.
- 2013 Annual Groundwater Remediation Implementation Status Report: All new dates have been entered into the MMDS.
- Kinder Morgan LF044 Land Use Control Report: No change to the schedule. Mr. Smith said Travis AFB will follow up with AMEC to check on status.
- CAMU Inspection Annual Report: New report. New dates populated. Mr. Duke handed out a CD during this meeting. Mr. Linbrunner said that this will complete ITSI FY08 small business PBC contract.
- Old Skeet Range Removal Action Work Plan: Moved to history. Mr. Anderson said that this site will be off the table for a while. Contractually Travis AFB needs to figure out the next steps. He added that further delineation of the PAH-contaminated soil cannot be conducted while the ground is wet.

2. CURRENT PROJECTS

Treatment Plant Operation and Maintenance Update

South Base Boundary Groundwater Treatment Plant (see Attachment 3)

The South Base Boundary Groundwater Treatment Plant (SBBGWTP) performed at 100% uptime, and 2.1 million gallons of groundwater were extracted and treated during the month of January 2014. All of the treated water was discharged to Union Creek. The average flow rate for the SBBGWTP was 46.4 gallons per minute (gpm). Electrical power usage was 6,060 kWh (*electrical power usage is incorrect, readings inconsistent, suspect faulty meter, in process of procuring a new one*) and approximately 8,302 pounds of CO₂ were created (based on DOE calculation). Approximately 1.24 pounds of volatile organic compounds (VOCs) were removed in January. The total mass of VOCs removed since startup of the system is 445 pounds.

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

Central Groundwater Treatment Plant (see Attachment 4)

The Central Groundwater Treatment Plant (CGWTP) performed at 100% uptime with approximately 1.37 million gallons of groundwater extracted and treated during the month of January 2014. All treated water was discharged to the storm drain. The average flow rate for the CGWTP was 30.6 gpm. Electrical power usage was 2,634 kWh for all equipment connected to the Central plant, and approximately 3,609 pounds of CO₂ were generated. Approximately 2.57 pounds of VOCs were removed from groundwater by the treatment plant in January. The total mass of VOCs removed since the startup of the system is 11,354 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 January.

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

North Groundwater Treatment Plant (see Attachment 5)

The North Groundwater Treatment Plant (NGWTP) performed at 33% uptime with approximately 27,140 gallons of groundwater extracted and treated during the month of January 2014. The average flow rate at the NGWTP was 5.1 gpm and electrical power use was 0 kWh for all the equipment connected to the North plant. Approximately 3.2×10^{-4} pounds of VOCs were removed from the groundwater in January. The total mass of VOCs removed since the startup of the system is 174.3 pounds.

Optimization Activities for NGWTP: Optimization of the groundwater extraction and treatment system (GETS) at Site LF007C that started on 18 November 2013 was completed on 16 January 2014. Approximately 1,400 feet of new discharge piping was installed during November to reroute the effluent from extraction wells EW614x07 and EW615x07 through a newly installed treatment system located

adjacent to Collins Drive, between Site LF007C and the discharge point at the Duck Pond. A new containment pad houses the same treatment equipment that has been in use since 2010 at the NGWTP. The upgraded solar system at extraction well EW614x07 was completed in January 2014 and will help to increase capture of the plume and increase the volume of water the system is able to treat during operation from approximately May through December. Future monthly reports will document increased flow rates and influent concentration captured by the optimized GETS. The NGWTP optimization has been completed and is now operated entirely by solar power.

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

The Site ST018 (MTBE) Treatment Plant (ST018 GWTP) performed at 100% uptime with approximately 145,600 gallons of groundwater extracted and treated during the month of January 2014. All treated water was diverted to the storm drain. The average flow rate for the ST018 GWTP was 3.27 gpm. Electrical power usage for the month was 97 kWh for all equipment connected to the ST018 GWTP plant, which equates to the creation of approximately 133 pounds of CO₂. Approximately 0.14 pounds of BTEX, MTBE and TPH were removed from groundwater in January from the treatment plant, all of which is attributed to MTBE removal. The total BTEX, MTBE and TPH mass removed since the startup of the system is 26 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 January.

Mr. Duke said the payment for the NPDES permit was submitted late and that prompted a notice of violation (NOV) from the RWQCB. Subsequently the payment had been received and Travis AFB received an email from RWQCB stating the payment was received and that the NOV was considered a late payment but was on the Notice of Violation letterhead. Travis AFB has been working with local Fairfield/Suisun Sewer District to change the discharge point from storm water to sanitary which would eliminate needing a NPDES permit. Ms. Constantinescu commented that she has discussed site ST018 with management regarding the large monthly costs per pound for the low quantity of MTBE removed. The RWQCB is ready to evaluate a “low threat closure request” from Travis AFB. It is the RWQCB policy in California to evaluate petroleum groundwater plumes based on effort and cost. Ms. Constantinescu made reference to the general criteria presented in the “Low-Threat Underground Storage Tank Case Closure Policy” adopted by the State Water Board on 5/1/2012. In this case, enough effort has been made, the plume has been very well characterized and a large mass has already been removed from the groundwater. Further, residual concentrations are low and the plume is stable. ST018 is not an environmental or human health threat. The RWQCB takes everything into consideration and is ready to entertain a low threat closure. Mr. Smith said if it continues to migrate it would merge with the plume at Site SS016 and be treated as

part of Site SS016. Ms. Constantinescu said the site ST018 would still need to be monitored.

Presentations:

Remedial Actions at Soil LUC Sites:

Mr. Wray reported on Remedial Actions at Soil LUC Sites. The Soil LUCs do not apply to POCO sites. Key points made in this presentation are presented below. Mr. Smith pointed out that these soil sites are under the new PBC contract. (see attachment 7 for details and site map)

Soil Land Use Control (LUC) Sites, Remedial Actions:

- **WABOU SOIL ROD:**
 - DP039 - Document removal of Pb and request site closure. The soil containing lead was removed when the bioreactor was installed. A tech memo will document the remedial actions of the soil removal.
 - SD043 - Delineate PCBs, excavate contaminated soil, and request site closure. The contaminated soil is beneath a huge generator. Mr. Smith said that this location may have a historical building that could impact the investigation.
 - LF044 - aka landfill X, near Kinder Morgan's new above ground fuel tank facility. Site has construction debris.
 - SS046 – Old railhead munitions site near LF008. Delineate PAHs and metals, excavate contaminated soil and request site closure.
- **NEWIOU Soil, Sediment and Surface Water ROD:**
 - SS015 - Soil is separate from the groundwater VOC plume.
 - SS016 - Delineate PAHs and PCBs, excavate contaminated soil and request site closure. This site is a small unpaved area that is located approximately 200 feet west of the SS016 bioreactor.
 - SD033 - Delineate PAHs and metals, excavate contaminated soil and request site closure. The site is near some hangers and associated with oil/water separators (OWS). The soil removal will be in conjunction with the OWS remediation. The OWS part of the contract has not been funded; it is scheduled to be funded in a couple of years. Mr. Smith said that it is “5-year money”, meaning that each incremental funding is good for 5 years. This is an 8-year contract and that the funds are issued in specific years over the 5 year period. Mr. Linbrunner mentioned that AFCEC and Travis AFB have been very proactive in trying to get additional funds this fiscal year to start some of the work earlier. Performing work earlier that had been planned for later years, will expedite remediation.
 - SD037 - Small area of soil contaminated with motor oil.
- **Process for proceeding to remove LUCs:**

- A biological resource assessment/consultation needs to be completed before any work plans or work can begin. The biological recon was conducted last week for all sites. Mr. Wray said that this is a priority due to the time it could potentially take to get the biological opinion from the US Fish and Wildlife Service (USFWS). Mr. Salcedo mentioned that the California Department of Fish and Wildlife has already stated they are not interested in Travis AFB because it is a National Priorities List (NPL) site. Mr. Wray said he would confirm if California Fish and Wildlife needs to provide a biological opinion. Note: Travis AFB has already received a biological opinion from the USFWS for LF007C.
- Prepare an explanation of significant differences (ESD) or ROD amendment. All these sites already have a final selected remedy with soil RODs using land use controls (LUCs). Travis AFB will need to either do an ESD or ROD Amendment. Mr. Anderson said LUCs were considered a contingency remedy; meaning Travis AFB would either excavate the contaminated soil and dispose of it off-base, or place the contaminated soil into the CAMU. Travis AFB at the time when the soil RODs were developed was considered an industrial facility, and the original goal was to clean up the soil to below industrial levels and apply LUCs. The mindset of the Air Force has changed to focus on reduced life cycle costs, reduced risks, cleanup to residential levels, and the removal of LUCs so the land can be used without restrictions.

Mr. Salcedo indicated that Travis AFB would have to do one ESD for each soil ROD.

- Prepare remedial action work plan (RAWP).
 - Conduct site work (i.e., excavation).
 - RA Completion report.
- Estimated Schedule:
 - DP039 - Removal of soil LUC (2014).
 - SD043 - ESD/ROD amendment and RA work plan (2014), excavation and RA completion report (2015).
 - SS046 - ESD/ROD amendment (2016), RA work plan (2017), excavation and RA completion report (2018). Mr. Wray said the work at this site is schedule in 2016 due to funding. However, given the discussion on the ESD/ROD amendment it would make sense to try and expedite funding. The regulatory agencies said it would make it much easier for the ESD/ROD amendment to be completed for all sites at the same time.
 - SS016 - ESD/ROD amendment and RA work plan (2014) excavation (2015), RA completion report (2016).

- SD033 - ESD/ROD amendment and RA work plan (2014), excavation and RA completion report (2016).

Program Update: Activities Completed, In Progress and Upcoming (see Attachment 8)

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: Old Skeet Range Removal Action Work Plan.

Newly Completed Field Work: Subsite LF007C optimization upgrades.

In-Progress Documents: Groundwater Record of Decision, Kinder Morgan LF044 Land Use Control Report.

In-Progress Field Work: None.

Upcoming Documents: CG508 POCO Work Plan, 2013 Annual GRISR, CAMU Inspection Annual Report.

Upcoming Field Work: 2014 Annual GRIP Sampling Event, Biological Resource Assessment, Old Skeet Range Characterization Sampling.

4. New Action Item Review

Travis AFB: Renew base pass for Ms. Burke. New base pass for Ben Fries/DTSC and temporary pass for John Hart/DTSC.

5. PROGRAM/ISSUES/UPDATE

Mr. Smith provided an AFCEC Installation Support Team (IST) Organization chart (see attachment 9 for details).

The ISTs are divided up by region, and are part of the Environmental Center of Excellence (ECoC) located at Joint Base San Antonio (JBSA). The Travis IST is the lead in the west region for Nellis, Travis, Vandenberg, and Edwards Air Force Bases. There is an Environmental Quality (EQ) component and an Environmental Restoration (ER) component to the IST.

Each IST is centrally managed by JBSA and functions as a standardized resource for the installations they support. The IST is managed by, and reports to AFCEC. The Travis IST acts in an advisory and backup role to the 60 Civil Engineering Squadron (CES).

Mr. Salcedo announced that he has accepted a new position as Branch Chief of Northern California Schools Evaluation with DTSC starting next week. Mr. Ben Fries, who will be replacing Mr. Salcedo and Mr. John Hart Supervisory Engineer, will be attending next month's RPM meeting with Mr. Jose Salcedo.

6. Action Items

Item #	Responsible	Action Item Description	Due Date	Status
1.	Travis AFB	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.	TBD	Open
2.	Travis AFB	Investigate basewide biological opinion of T&E habitat.	19 March 2014	Open
3.	Travis AFB	Renew base pass for Ms. Burke. Request new base pass for Ben Fries/DTSC, and temporary pass for	19 March 2014	Open

		John Hart/DTSC.		
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