

FINAL

**FORMER NAVAL AIR STATION MOFFETT FIELD
RESTORATION ADVISORY BOARD MEETING
MOUNTAIN VIEW SENIOR CENTER
MOUNTAIN VIEW, CALIFORNIA**

AUGUST 7, 2014

NOTE: An acronym list is provided on the last page of these minutes.

Subject: RESTORATION ADVISORY BOARD MEETING MINUTES

The Restoration Advisory Board (RAB) meeting for Former Naval Air Station (NAS) Moffett Field was held on Thursday, August 7, 2014, at the Senior Center in Mountain View, California.

Community RAB Members in attendance:

Bill Berry, Gabriel Diaconescu, John Inks, Rebecca Kohn, Libby Lucas, Diane Minasian, Bob Moss, Lenny Siegel, Steve Sprugasci, Peter Strauss, Dan Wallace, and Steve Williams

Regulatory Agency and Navy RAB Members in attendance:

Scott Anderson (Navy) and Alana Lee (U.S. Environmental Protection Agency [EPA])

Other Navy, Regulatory Agency, National Aeronautics and Space Administration (NASA), City, and Consultant Representatives in attendance:

Don Chuck (NASA), George Cook (Santa Clara Valley Water District [SCVAS]), Kristina Curley (Army Environmental Command [AEC]), Jim Davis (City of Sunnyvale), Yashekia Evans (Tetra Tech Inc. [Tetra Tech]), Kimberly Finch (NASA), Carolyn Hunter (Tetra Tech), Lauren Landuig (NASA), Jackie Lane (EPA), George Sloup (NASA), Keith Siuda (NASA), and Cynthia Wetmore (EPA)

Other Community Members and Agency Representatives in attendance:

David Eller, Jordan Flanders, Eric Gray, Jane Horton, Shani Kleinhaus (SCVAS), Jackie Lanzon (Geosyntec), Nina Lanzon, Vic Lanzon, Bill McClenahan (ExTech), Claudia Polley, Mary Rawson, Tammy Skoog, and Terry Terman

WELCOME

Bill Berry (RAB Community Co-chair) opened the meeting at 7:00 p.m. and welcomed everyone in attendance. Mr. Berry said RAB members Lenny Siegel and Greg Unangst are running for Mountain View City Council in November 2014. Mr. Berry said he received resignations from RAB members Larry Ellis and Linda Ellis due to the possible conflict of interest since they are consulting Planetary Ventures on the future reuse of Site 29 (Hangar 1). Mr. Berry said there is no more information on the Planetary Ventures leasing agreement and the reuse of Hangar 1 to report during the meeting. Mr. Berry reviewed the RAB agenda and asked for any additional topics. No additional items were suggested.

APPROVAL OF MEETING MINUTES

Scott Anderson (Navy RAB Co-chair) asked for corrections to or comments on the minutes for the draft February 13, 2014, RAB meeting. RAB member Bob Moss asked for a correction to page 6, line 5 to delete "from the" in the sentence. The statement should be corrected to say, "Mr. Siegel suggested that EPA prepare a conceptual site model for the area to determine the level of contamination from the groundwater plume in the community." The RAB voted to finalize the February 13, 2014, meeting minutes with Mr. Moss' correction.

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Mr. Anderson reviewed and handed out a document sign-up sheet, allowing RAB members to request copies of upcoming deliverables; see table below.

Document Sign-Up Table

<u>DOCUMENT</u>		<u>APPROXIMATE SUBMITTAL DATE</u>
1.	Final Site 26 Record of Decision (ROD) Amendment	August 2014
2.	Draft Basewide 5-Year Review	September 2014
3.	Final Sites 1, 2, and 22 Landfills Monitoring and Optimization	September 2014
4.	Final 2013 Annual Report for the Landfill Sites	September 2014
5.	Draft Site 25 Vegetation Restoration	October 2014
6.	Final Supplemental Investigation of Site 28 Technical Memorandum	October 2014

NAVY ANNOUNCEMENTS

Mr. Anderson thanked the RAB for being flexible and moving the meeting to August 7, 2014, to accommodate the Navy's and regulatory agencies' schedules. Mr. Anderson provided a brief update on the Navy's projects at former NAS Moffett Field. Mr. Anderson said the Navy finalized the ROD Amendment for Site 26 in August 2014 which amended the groundwater remedy and includes land use controls (LUCs) and monitoring. The Navy is in the process of awarding a contract for a treatability study (TS) for the groundwater in the mid and lower aquifer zones at Site 28. Mr. Anderson said Planetary Ventures is conducting sampling at Hangar 1 as part of the due diligence for future leasing of Hangar 1. There were some places where the protective coating was lifting off in the mezzanine and first floor of the hangar. These locations had multiple coats of paint applied in the past. The Navy has been working with their contractor AMEC to repair the lifting coating on the hangar. Mr. Anderson said there has been snowy plover nesting at Site 25 in the area that was remediated by the Navy and is currently barren of pickleweed. The Navy is coordinating a tour of Site 25 in November 2014 with NASA and the regulatory agencies to see how the vegetation restoration is progressing two years after the removal action was completed.

- RAB member Peter Strauss asked if the Navy needs to remove pickleweed from the location surrounding the snowy plover nest at Site 25. Mr. Anderson said the nest is located in an area free of pickleweed so there is no reason to modify the landscape to accommodate the snowy plover.
- RAB member Libby Lucas said the salt pan area has gotten a little larger and the habitat at Site 25 is healthy.

COMMUNITY RAB CO-CHAIR ELECTION

Mr. Anderson said the RAB will conduct the election for community co-chair. Mr. Anderson asked for nominations for the RAB Community Co-chair. Mr. Siegel asked if Mr. Berry would consider being the community co-chair for another year. Mr. Berry said he would consider being the community co-chair for another year if Mr. Moss would continue to be the alternate. Mr. Moss confirmed he would continue to be the community co-chair alternate for the RAB. Mr. Anderson asked for any additional nominations for RAB

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Community Co-chair and alternate. No additional nominations were provided and the RAB voted unanimously to have Mr. Berry and Mr. Moss continue as the RAB Community Co-chair and Alternate Co-chair for another year. Mr. Anderson thanked Mr. Berry and Mr. Moss for their support and time to the Navy, regulatory agencies, and NASA in conducting the cleanup at former NAS Moffett Field.

EPA VAPOR INTRUSION AND TCE POTENTIAL SOURCE INVESTIGATION UPDATE

Alana Lee (EPA) introduced the new EPA Community Involvement Coordinator Jackie Lane who will be providing support for former NAS Moffett Field and Middlefield-Ellis-Whisman (MEW) Superfund Site. Ms. Lee said that former EPA Remedial Project Manager (RPM) for the groundwater cleanup program at former NAS Moffett Field and MEW Superfund Site, Penny Reddy left EPA in July 2014 and that a new groundwater RPM has not been selected yet. She will announce the new RPM to the RAB once the person has been selected by EPA.

Ms. Lee provided an update on EPA's work in the MEW Superfund Site Vapor Intrusion (VI) Study Area and ongoing TCE potential source investigation. Ms. Lee said EPA is overseeing the VI work conducted by the MEW parties, NASA, and the Navy to monitor, evaluate, and mitigate, where necessary, the potential and existing VI pathway. EPA's maps, reports and additional information on VI and the VI work at the MEW and NAS Moffett Field Superfund sites can be found at EPA's websites: www.epa.gov/region9/mew; www.epa.gov/region9/moffettfield; and www.epa.gov/oswer/vaporintrusion. Ms. Lee said EPA will be providing a presentation on EPA's Vapor Intrusion and TCE Potential Source Investigation work next week to the Community Advisory Board (CAB).

Ms. Lee said more than 66 commercial/non-residential buildings were sampled south of Highway 101 in the MEW area. Interim mitigation measures have been taken to protect the building occupants where trichloroethene (TCE) indoor air concentrations were above the indoor air cleanup level (5 micrograms per cubic meter). The newly constructed commercial office buildings in the VI study area have been built with VI control systems. In addition, in 2013 EPA sampled indoor air from approximately 140 residences located within the residential indoor air sampling area. To date, three existing residences have required the installation of VI mitigation systems. Vapor intrusion mitigation systems have been installed in new construction, including the Wescoat Village residences.

- Mr. Moss asked if all of the homes with installed mitigation systems were directly above the groundwater plume in the study area. Ms. Lee said the homes with mitigation systems all overlie the TCE shallow groundwater contamination plume area. Two of the residences are near a TCE hot spot area on Evandale. The MEW parties are conducting an in-situ chemical oxidation pilot test at the two groundwater TCE hot spot areas along Evandale Avenue to lower TCE concentrations.
- RAB member Steve Williams asked if the sewer line goes through the MEW Superfund Site and if TCE migrated into the sewer system. Ms. Lee said EPA has been investigating potential infiltration of the TCE shallow groundwater contamination into the sewer line, potential historical releases to the sewer line, and permitted releases to the sewer line.
- Mr. Williams said he is concerned the storm drains also flow along the groundwater plume past the Moffett Gateway Area where one of the TCE hot spots is located. Ms. Lee said the current data shows there is no TCE found coming up the storm drain manholes tested in the residential area near and above the TCE groundwater plume. EPA is trying to determine the migration pathway of four TCE hot spot areas. EPA has been assessing the historical use and disposal of TCE in the area as part of the TCE source investigation. Mr. Williams said he found historic storm drain lines that pre-date the installation of the sewer lines that may be impacted by TCE contamination. Mr. Siegel said EPA is looking at the historic data and the storm drain and sewer lines to determine how to address the TCE in the

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groundwater plume. Mr. Williams asked if the sewer line could be contributing to the groundwater plume. Ms. Lee said EPA is evaluating all the available data and the investigation continues.

- Mr. Williams said the sewer line runs north across Stevens Creek which could be transporting contamination. Ms. Lee said EPA is looking at industrial wastewater discharge permits to the sanitary sewer.
- Mr. Berry requested that the Army provide an update on the cleanup of Orion Park at the November 2014 RAB meeting. Kristina Curley (AEC) said there is a new Environmental Manager being brought into AEC to work on Orion Park and they will be attending the next RAB meeting to provide an update.
- Mr. Siegel announced the next CAB meeting will take place on Monday, August 11, 2014, at 7:00 p.m. in the plaza conference room at the Mountain View City Hall. EPA will be providing an update on the VI and TCE source investigation work and a five-year review presentation for the MEW Superfund Site.
- Mr. Siegel said there are two kinds of contamination concerns for the MEW Superfund Site including: (1) TCE in the groundwater, and (2) direct releases of contaminants to the sewer and storm drains. Ms. Lee said EPA is looking at releases, past and current, to determine the source of TCE in the hot spot areas and potential migration pathway and impact. Mr. Siegel suggested that the sewer and storm drain systems be sampled by EPA to determine what is present.
- Mr. Williams said the storm drain by the “German school” should be sampled to determine if there is contamination.
- Mr. Strauss said he wants clarification on the difference between time-integrated vs. non-time-integrated sampling of VI. Ms. Lee said the 8 to 24-hour time-integrated sampling using a canister is the traditional method and can detect low concentrations of TCE. Passive sorbent methods are also time-integrated and used at a number of sites in the area. The passive sampling duration typically ranges between four days to two weeks. Grab samples are not integrated over time and can be collected by various methods. Grab samples are often used for screening potential pathways.
- A community member asked if there is a plan in place for the surrounding neighborhoods that is protective of human health and ensures safety measures are in place while the contamination is being addressed. Mr. Siegel said all of the local fire chiefs in each city in the surrounding area have hazardous materials regulations and protocols protective of human health.

EPA MEW SUPERFUND SITE FIVE-YEAR REVIEW

Ms. Lee provided an update on EPA’s third five-year review for the MEW Superfund Site. The draft was issued for public comment in July 2014 and is available on EPA’s website at www.epa.gov/region9/mew. Ms. Lee said EPA has prepared a streamlined five-year review to assess the remedies at the MEW Superfund Site and if they are protective of human health and the environment. Ms. Lee said EPA is accepting comments on the draft five-year review through August 25, 2014. EPA plans to finalize it in September 2014. Ms. Lee said EPA will be providing a presentation on the EPA Third Five Year Review at the CAB meeting on August 11th.

- Mr. Strauss asked about the timeline for the completion of the MEW Superfund Site feasibility study (FS). Ms. Lee said EPA estimates in the Five-Year Review that the final decision document (e.g., ROD Amendment) will be completed by 2018.
- Mr. Siegel asked if EPA’s pilot testing to determine the path forward is actually treating the TCE in the groundwater at the MEW Superfund Site. According to Mr. Siegel, the community’s preference is to have those who are responsible for the contamination in the groundwater pay for the cleanup.
- Mr. Siegel requested the Navy provide an update on their upcoming five-year review at the November 2014 RAB meeting. Mr. Anderson said the Navy will provide an update on their five-year review.

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PUBLIC COMMENT / QUESTION PERIOD

Mr. Anderson opened the meeting for questions or comments from the public.

- Community member David Eller said he last attended the RAB meetings in May and July 2010. Mr. Eller asked what the long-term monitoring (LTM) plan is for Hangar 1. Mr. Anderson said the LTM Plan has been finalized for Hangar 1, and the Navy, NASA, and the regulatory agencies are determining who is responsible for management of the LTM. Mr. Eller said during a visit earlier in 2014 he noticed the coating peeling and rust at the hangar. He asked if there was a warranty on the coating the Navy used. Mr. Anderson said the Navy's contractor is addressing the coating issues and ensuring that anything needing reapplication in the lower levels of the hanger will be taken care of.
- Mr. Moss asked EPA if potassium permanganate can be injected into the groundwater plume to address groundwater concerns. Mr. Anderson said the Navy has had success in the past using potassium permanganate at other sites to address groundwater contamination. Ms. Lee said the MEW parties have injected two rounds of sodium permanganate in the TCE groundwater hot spot area on Evandale Avenue and is preparing to do a third injection in August. Mr. Anderson said the Navy has conducted the VI annual sampling during warm weather this summer and will conduct the cold weather sampling in the winter. This is to continue to evaluate the seasonal variations of VI due to climate conditions.
- Mr. Williams said the RAB and community were never satisfied with the hangar coating approach, shared their concerns with the Navy, and were not surprised the coating is peeling off the hangar. This was predicted by the community before the coating was applied. The community is working hard to get the hangar re-sided as quickly as possible so it is protected in the future.

FUTURE RAB MEETINGS

Mr. Anderson asked for future RAB topics. The next RAB meeting is tentatively scheduled for Thursday, November 13, 2014. Mr. Anderson said that he is working with the Army to get an Orion Park update for the next RAB meeting.

- Mr. Berry suggested that an update on the coating issues at Hangar 1 be presented at the RAB meeting. Mr. Berry asked if Planetary Ventures can be invited to provide an update to the RAB on their leasing ideas for the hangar.

ADJOURN

Mr. Anderson thanked all present for attending. The meeting was adjourned at 8:45 p.m.

The Navy can be contacted with any comments or questions:

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ACRONYM LIST

AEC – Army Environmental Command
BRAC – Base Realignment and Closure
CAB – Community Advisory Board
EPA – U.S. Environmental Protection Agency
FS – Feasibility Study
LUC – Land Use Controls
LTM – Long-term Monitoring
MEW – Middlefield-Ellis-Whisman
NAS – Naval Air Station
NASA – National Aeronautics and Space Administration
RAB – Restoration Advisory Board
ROD – Record of Decision
RPM – Remedial Project Manager
SCVAS – Santa Clara Valley Water District
TCE – Trichloroethene
TS – Treatability Study
VI – Vapor Intrusion

RAB meeting minutes are posted on the Navy’s environmental website at:

http://www.bracpmo.navy.mil/brac_bases/california/former_nas_moffett_field.html

Respectfully submitted,
Scott Anderson
Navy Co-Chair
Former NAS Moffett Field RAB