

FINAL

**FORMER NAVAL AIR STATION MOFFETT FIELD  
RESTORATION ADVISORY BOARD MEETING  
MOUNTAIN VIEW SENIOR CENTER  
MOUNTAIN VIEW, CALIFORNIA  
NOVEMBER 12, 2015**

*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, November 12, 2015, at the Senior Center in Mountain View, California.

**Community RAB Members in attendance:**

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

**Regulatory Agency and Navy RAB Members in attendance:**

Scott Anderson (Navy), Alana Lee (U.S. Environmental Protection Agency [EPA]) and Elizabeth Wells (San Francisco Bay Regional Water Quality Control Board [Water Board])

**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), Kristina Curley (Army Environmental Command [AEC]), Jim Davis (City of Sunnyvale), Kimberly Finch (NASA), Carolyn Hunter (Tetra Tech), Beth Kercher (Helios), Lynne Kilpatrick (City of Sunnyvale), Jackie Lane (EPA), Steve Lombardi (U.S. Army 63<sup>rd</sup> Reserve), John Inks (City of Mountain View), and George Sloup (NASA),

**Other Community Members and Agency Representatives in attendance:**

Beth Bunnenberg, M. Johit, Bill McClenahan (Extech), and Claudia Polley (Arts Associates)

**WELCOME**

Bill Berry (RAB Community Co-chair) opened the meeting at 7:00 p.m. and welcomed everyone in attendance. Mr. Berry reviewed the RAB agenda and asked for any additional topics. No additional items were suggested. Mr. Berry asked if there were any representatives from Google at the meeting to provide an update on the property they are leasing from NASA at former NAS Moffett Field. Don Chuck (NASA) said there are no representatives from Google or Planetary Ventures (PV) at the RAB meeting. Mr. Berry asked if there is any information on the construction that PV is doing on R T Jones Road. Mr. Chuck said that PV is going to widen R T Jones Road from two to four lanes. Mr. Berry said the RAB would like to receive more information on the projects that NASA, PV, and the Army are doing at former NAS Moffett Field in addition to what the Navy is presenting. Alana Lee (EPA) said she will look into getting the Army to provide an Orion Park update at an upcoming RAB meeting. Mr. Berry said the RAB needs to assess their purpose and goals to determine the path forward for future meetings.

Mr. Berry said that he would like to step down as the RAB Community Co-chair since he has completed a two year term. Mr. Berry asked that Community Co-chair elections be placed on the next RAB meeting agenda. Scott Anderson (Navy RAB Co-chair) said RAB Community Co-chair elections will be added to the next meeting agenda.

**APPROVAL OF MEETING MINUTES**

Mr. Anderson asked for corrections to or comments on the draft final minutes for the February 12, 2015 RAB meeting. The Navy incorporated the additional text proposed by RAB member Bob Moss to the February 12, 2015 meeting minutes. The RAB voted to finalize the February 12, 2015 meeting minutes with the corrections requested by Mr. Moss included.

Mr. Anderson asked for corrections to or comments on the draft minutes for the August 13, 2015 RAB meeting. Ms. Lee said she will provide EPA comments on the August 13, 2015 RAB meeting minutes at a later date. Mr. Anderson said the Navy will take comments on the August 13, 2015 RAB meeting minutes for the next couple of weeks and finalize the minutes in December 2015. The RAB voted to finalize the August 13, 2015 meeting minutes in December 2015 with comments incorporated that are provided after the November 12 meeting.

**NAVY ANNOUNCEMENTS**

Mr. Anderson distributed 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 2013 Annual Report for Sites 1, 2, and 22	December 2015
2.	Final Basewide Five-Year Review Report	December 2015
3.	Final Air Sampling Work Plan for Site 28 West-side Aquifer Treatment System (WATS)	December 2015
4.	Site 25 Draft Vegetation Restoration Maintenance and Monitoring Year-3	January 2016
5.	Final 2014 Annual Report for Sites 1, 2, and 22	January 2016

Mr. Anderson said he has taken a new position at the Base Realignment and Closure (BRAC) Office as a Deputy Base Closure Manager. Until the Navy fills his position on former NAS Moffett Field, Mr. Anderson will be balancing both roles. Once a new Base Environmental Coordinator (BEC) is determined for former NAS Moffett Field, the Navy will provide the new point of contact information to the RAB. Mr. Anderson said that Valerie Harris, the Navy Remedial Project Manager (RPM) for Sites 26, 28, and the basewide groundwater monitoring program has taken on a new role as a Lead RPM for a different team. Navy RPM Kyle Olewnik will be the new lead for Sites 26, 28 and the basewide groundwater monitoring program.

**RAB Meeting Frequency**

Mr. Anderson said the Navy and NASA Headquarters are continuing discussions on the future of operations and maintenance (O&M) at former NAS Moffett Field. Once a path forward is determined for the future of O&M at former NAS Moffett Field, the Navy and NASA will provide an update to the RAB. Mr. Anderson said the Navy’s projects at former NAS Moffett Field are wrapping up and it is becoming difficult to find sufficient topics to use as project updates for quarterly RAB meetings. Mr. Anderson proposes to host Navy-sponsored RAB meetings twice a year (May and November).

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- RAB member Peter Strauss said he agrees the Navy's work is winding down at former NAS Moffett Field, but the community should be informed of work being done by NASA, the Army, and PV. At other bases with mature cleanup programs, various parties combine efforts to host joint RAB meetings.
- RAB member Lenny Siegel said NASA issued a Community Involvement Plan (CIP), which stated they plan to provide their environmental program updates at the Navy's RAB meetings. Mr. Siegel wants to ensure that PV is providing the community regular updates on the progress of reuse of Site 29 (Hangar 1).
- RAB member Steve Williams said the community has asked the Navy to invite PV and the other stakeholders to participate regularly in the RAB meetings. The community members need to determine how to get PV and the other stakeholders interested in hosting or sponsoring meetings to provide updates on the various environmental programs at former NAS Moffett Field.
- Mr. Moss said there may be issues that arise more frequently than a semi-annual (twice yearly) RAB meeting schedule. Mr. Moss recommended conducting another year of quarterly meetings and postpone the change to a semi-annual schedule.
- John Inks (City of Mountain View) said he supports transitioning to a semi-annual RAB meeting schedule. The community can determine what their needs and interests are for updates on the other environmental programs and create a path forward that meets those needs.
- RAB member Greg Unangst said that although the Navy program is slowing down, there are a lot of other projects that the community should be informed of. More effort should be made to engage the community on the various projects.
- Jim Davis (City of Sunnyvale) said the RAB should look at their current mission statement and consider revising it. To date EPA has done an excellent job providing updates on the progress at Orion Park and the other projects in the area at the RAB meetings and other community meetings. Mr. Davis said he would like to see participation from PV to provide information on re-siding Hangar 1.
- Mr. Berry said he has been involved with former NAS Moffett Field for over 40 years and participated in reviewing the Environmental Impact Statement in 2002. Mr. Berry cannot think of another organization that would be responsible for hosting the RAB meetings. Mr. Berry agrees to the Navy going to a semi-annual RAB meeting schedule.

Mr. Anderson said the Navy can only pay for meetings that discuss their projects. As the Navy's work concludes, another agency(s) will need to provide funding to conduct community meetings.

- Mr. Siegel said that he does not think that all of the environmental issues at Orion Park have been fully characterized. The Navy discontinued their work at Orion Park, which was subsequently continued by the Army. Based on EPA oversight, it seems that additional work needs to be done at Orion Park to fully characterize the site. The RAB has been requesting regular updates on the progress at Orion Park. Mr. Siegel said the RAB is interested in having updates on Orion Park, Hangar 1, NASA, and PV's environmental programs. The community needs to request that the responsible agencies ensure there are continued meetings and possibly look at the funding capabilities of the surrounding cities. Don Chuck (NASA) said he will speak with NASA management and inform them of the RAB's interest in future meetings. Ms. Lee said that EPA does not have funding set aside to support hosting community meetings for former NAS Moffett Field. Mr. Siegel said he would like to see the Navy, Army, and

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NASA work together to co-sponsor future RAB meetings. Mr. Chuck said he will take this request back to NASA.

The RAB voted to move the Navy RAB meetings to a semi-annual frequency. The next scheduled RAB meeting will take place in May 2016.

## NAVY UPDATE

Mr. Anderson said that the Navy is working on obtaining no further action closure from the regulatory agencies on the Site 25 polychlorinated biphenyl removal action.

Mr. Anderson said that the next phase of the Site 26 Eastside Aquifer Treatment System (EATS) area project is the remedial design of an in situ bioremediation system followed by natural attenuation.

Mr. Anderson said the Navy is in the process of conducting a treatability system to address dense non-aqueous phase liquid (DNAPL) in the lower aquifers at Site 28 and the Traffic Island Area. The Navy is currently injecting material into the groundwater to address the DNAPL.

Mr. Anderson said the Navy is working on their last petroleum site at former NAS Moffett Field, Site 14. The Navy has an air-sparge system in place at Site 14 and conduct quarterly groundwater monitoring. The plan is to operate an air-sparge system for one more year and then shut the system off to test for rebound. The Navy has been working with the Water Board on the path forward for Site 14.

## NASA UPDATE

Kim Finch (NASA) provided an update on NASA's environmental program. NASA issued the draft final Fiscal Year 2016 (FY16) Site Management Plan (SMP) to the regulatory agencies for their approval. NASA plans to finalize the FY16 SMP after they receive regulatory agency approval.

Ms. Finch said NASA issued the Final CIP in September 2015 with regulatory agency comments incorporated. NASA's Final CIP is located on the NASA Ames website.

Ms. Finch said NASA issued the Remedial After-Action Completion Report (RACR) for Area of Investigation (AOI) 6 in October 2015. Once the regulatory agencies provide comments, NASA plans to finalize the RACR for AOI 6.

Ms. Finch said NASA is conducting vapor intrusion (VI) testing at seven buildings at the Ames Research Center. The Draft Tier Response Evaluation Report for VI was issued for regulatory agency review in July 2015.

Ms. Finch said the upcoming activities for NASA Ames are a) preparation of a Land Use Control (LUC) Implementation and Monitoring Plan, b) continuing to conduct VI monitoring in NASA buildings and c) completion of the Action Memorandum (AM) and Removal Action (RA) Design for AOI 14.

Ms. Finch said that information on NASA Ames environmental program can be found on their website: <https://environment.arc.nasa.gov>.

- Mr. Siegel asked if the LUC Implementation and Monitoring Plan for FY16 will include Hangar 1. Ms. Finch said Hangar 1 will be included in the LUC Implementation and Monitoring Plan. Mr. Chuck said NASA has taken responsibility for Hangar 1 and PV plans to remove the frame's protective coating and

re-side it. The Navy has completed their responsibilities for Hangar 1. Mr. Siegel asked if this confirms there is no more contamination remaining at Hangar 1. Mr. Chuck said that the goal of the coating removal is to remove all residual contamination. NASA negotiated in the lease agreement that PV must complete re-siding of the building within a specified time frame. Mr. Chuck said that NASA working with PV plans to conduct a non-time critical removal action (NTCRA) to remove the coating and re-side the hangar when the pilot test is complete.

- Mr. Berry said there is significant community interest in the progress of re-siding Hangar 1 and asks that PV and NASA provide the RAB with regular updates on the progress.
- RAB member Gabriel Diaconescu said the RAB and community have been proactively working together to save the hangar. Mr. Diaconescu said NASA and PV are investing in the future of the community by getting Hangar 1 ready for reuse.
- Mr. Diaconescu recommended RAB member Greg Unangst as the next Community Co-chair. Mr. Unangst said he will consider running as Community Co-chair after the RAB determines their future mission, funding source and charter.
- Mr. Moss asked what contaminants NASA is sampling for in the 7 buildings at NASA Ames. Ms. Finch said vapor intrusion sampling is being conducted for trichloroethylene (TCE) and related volatile organic compounds associated with the regional plume. Ms. Finch introduced Kevin Bricknell (Tetra Tech) who will provide additional information on the AM and RA at AOI 14. Mr. Bricknell said NASA collected and analyzed over 400 soil samples during various phases of investigation at AOI 14 from 1992 to 2014. AOI 14 is comprised of three fill material peninsulas that extend into NASA's stormwater retention pond. The largest fill peninsula (~5 acres) poses a potential risk to human health and primarily ecological receptors. The fill material was contaminated with polychlorinated biphenyls (PCB), dichlorodiphenyltrichloroethane (DDT), and lead and is a potential source of contamination to the surrounding storm water pond of Navy Site 25.

Mr. Bricknell said NASA, with EPA and Water Board concurrence, is conducting a NTCRA at AOI 14. A silt fence has been installed to prevent soil erosion occurring at AOI 14 from impacting the Navy's Site 25. NASA's NTCRA will evaluate and address all potential human and ecological risks and will serve as the final action for AOI 14.

Mr. Bricknell said NASA issued Final Engineering Evaluation/Cost Analysis (EE/CA) for AOI 14 which in September 2015 with regulatory agency and public review comments incorporated. Now that the EE/CA has been finalized, NASA is in the process of preparing the AM for AOI 14 to document the cleanup decision process and identify the selected cleanup option. The RA, which will implement the cleanup action, is expected to begin in September 2016 and conclude about March 2017. With concurrence of the regulatory agencies, NASA concluded that Alternative 3 – excavation and offsite disposal for AOI 14 - will be protective of human health and the environment. After the material is excavated and transported off site to the appropriate landfill, NASA will grade the disturbed areas, revegetate and conduct habitat mitigation. Mr. Bricknell said that implementing Alternative 3 will allow for unrestricted future use, require no long term O&M, and serve as the final action at AOI 14.

- Mr. Davis asked if there is further PCB leaching into Site 25 from AOI 14. Mr. Bricknell said the silt fence NASA installed has mitigated PCBs leaching into Site 25. Mr. Davis said he wants to ensure there is no contamination from AOI 14 leaching into the bay. Elizabeth Wells (Water Board) said the storm water retention pond and monitoring ensures the bay is protected.

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- RAB member Libby Lucas said the storm water basin is a wetland area and will need to be restored to California Department of Fish and Wildlife (CDFW) specifications when the AOI 14 removal action is completed. Ms. Lucas asked if the contamination in AOI 14 will be contained with the El Nino storms potentially creating flooding. Ms. Finch said the AOI 14 peninsula is heavily vegetated and there is little runoff. The perimeter silt fencing mitigates sediment from entering the pond and will be maintained until the RA is conducted. NASA continues to monitor the site to ensure contamination is contained at AOI 14 and is not released into the stormwater retention pond. Ms. Wells said the peninsulas and retention ponds around AOI 14 will protect the surrounding areas.
- Mr. Strauss asked where the soil excavated from AOI 14 is being transported for disposal. Mr. Bricknell said that a majority of the soil will go to a non-hazardous landfill and it is assumed that a small portion of the material will go to a hazardous landfill.

## PUBLIC COMMENT / QUESTION PERIOD

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

- Community member Russ Christopher asked for a brief overview of the history of Hangar 1. Mr. Anderson provided an overview of the Navy's environmental assessments and removal action of the PCB contamination at Hangar 1. Mr. Anderson recommended Mr. Christopher take a look at the Navy's BRAC website and go to the Mountain View Public Library to look at the historical Hangar 1 documents that are located in the Navy's Information Repository. Mr. Christopher thanked Mr. Anderson and said he will take a look at the recommended resources.

## FUTURE RAB MEETINGS

Mr. Anderson asked for future RAB topics. Future RAB topics suggested were the Hangar 1 coating pilot study and re-siding update from PV, Orion Park update, updates on progress at Sites 26 and 28, and the Community Co-chair Elections.

Mr. Anderson said he can be contacted for future RAB topic suggestions via e-mail or phone. The next RAB meeting is tentatively scheduled for Thursday, May 12, 2016.

### Tentative 2016 RAB Meeting Schedule

- Thursday, May 12, 2016
- Thursday, November 10, 2016

## ADJOURN

Mr. Anderson thanked all present for attending. The meeting was adjourned at 9:00 p.m.

The Navy can be contacted with any comments or questions:

Mr. Jim Sullivan

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## ACRONYM LIST

AEC – Army Environmental Command  
AM – Action Memorandum  
AOI – Area of Investigation  
BEC – Base Environmental Coordinator  
BRAC – Base Realignment and Closure  
CDFW – California Department of Fish and Wildlife  
CIP – Community Involvement Plan  
DDT - Dichlorodiphenyltrichloroethane  
DNAPL – Dense Non-Aqueous Phase Liquid  
EATS – Eastside Aquifer Treatment System  
EE/CA – Engineering Evaluation/Cost Analysis  
EPA – U.S. Environmental Protection Agency  
FY – Fiscal Year  
LUC – Land Use Controls  
NAS – Naval Air Station  
NASA – National Aeronautics and Space Administration  
NTCRA – Non Time Critical Removal Action  
O&M – Operation and Maintenance  
PV – Planetary Ventures  
RA – Removal Action  
RAB – Restoration Advisory Board  
RACR - Remedial After-Action Completion Report  
RPM – Remedial Project Manager  
SMP – Site Management Plan  
TCE – Trichloroethylene  
VI – Vapor Intrusion  
WATS – Westside Aquifers Treatment System  
Water Board – San Francisco Bay Regional Water Quality Control Board  
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](http://www.bracpmo.navy.mil/brac_bases/california/former_nas_moffett_field.html)

Respectfully submitted,  
James Sullivan  
Navy Co-Chair  
Former NAS Moffett Field RAB