



MEETING MINUTES

FORMER NAVAL AIR STATION (NAS) MOFFETT FIELD

RESTORATION ADVISORY BOARD MEETING

OCTOBER 14, 2021

SUBJECT: RESTORATION ADVISORY BOARD MEETING SUMMARY

The Former Naval Air Station (NAS) Moffett Field Restoration Advisory Board (RAB) meeting convened on Thursday, October 14, 2021, via teleconference. A list of attendees is on page 3. An acronym list is on the last page.

WELCOME

Chris Yantos (U.S. Department of the Navy [Navy] RAB Co-chair) opened the meeting at 7:00 p.m. and welcomed attendees to the virtual meeting of the Former NAS Moffett Field RAB. Carolyn Hunter (Navy community outreach contractor) reviewed technology tips and tricks to assist the RAB in navigating the virtual meeting.

Mr. Yantos reviewed the agenda and initiated a round of introductions.

RAB Co-Chairs Update

Greg Unangst (RAB Community Co-Chair) said that RAB members had set a protocol to meet informally every May as part of the annual RAB routine. The purpose is to discuss Moffett activities among themselves. The RAB members hope in-person meetings can resume next year. Mr. Yantos cited two presentations prepared for this meeting, both related to Site 28 because that is the focus of the Navy's work. There was no update on Site 26 because of completion of the Navy's cleanup there on October 1, 2021, and U.S. Environmental Protection Agency (EPA) concurrence with assertion of a remedy in place. The National Aeronautics and Space Administration (NASA) now is responsible for long-term monitoring of Site 26, and operations and maintenance activities there. Mr. Yantos added that the Navy's remediation activities, per the Federal Facility Agreement schedule, now includes only Site 28. The Navy plans to install a remedy for vapor intrusion (VI) at Site 28 within the next year or so.

Mr. Unangst asked about an update regarding polyfluoroalkyl substances (PFAS) investigations at Moffett. Mr. Yantos replied that although the topic was not on the agenda, he would address it at the end of the meeting.

NAVY UPDATE ON ONGOING ENVIRONMENTAL RESPONSIBILITIES

SITE 28 TRAFFIC ISLAND FIELD WORK UPDATE

Mr. Yantos introduced Brandon Mills (Navy) to provide the update on Site 28. Mr. Mills reviewed the work from September 2020 through July 2021, and the work planned for October 2021 through June 2022.

- Lenny Siegel (RAB Member) praised progress at Site 28. He asked what had triggered the planned installation of the hydrogen peroxide and ozone (HiPox) system reviewed on slide

23. Mr. Mills responded that the HiPox will prevent use of large quantities of granulated activated carbon (GAC), as well as degrade the contaminants more completely and be more efficient. Mr. Siegel inquired about the high *cis*-1,2-dichloroethene (DCE) concentration at well 28S116, which appeared to be anomalous. Mr. Mills replied that the next set of data should reveal information that can resolve the issue of DCE in the well. Mr. Siegel also asked about the regulatory driver for this activity. Mr. Mills characterized the driver as risk-based, noting that the San Francisco Bay Regional Water Quality Control Board (Water Board) and EPA had requested additional data based on the 2016 pilot study revealing some high remaining concentrations of semi-volatile organic compounds (SVOCs). The HiPox system will be installed in November 2021 and will optimize the remedy, as the Westside Aquifer Treatment System (WATS) could not remediate the concentrations quickly enough. The Navy had recommended the optimization, and the agencies had concurred.

SITE 28 VI UPDATE

Wilson Doctor (Navy) presented VI updates at Site 28. He reviewed the area of the groundwater contamination plume which contributes to the VI pathway. The Navy conducts annual VI sampling inside buildings within Site 28. Diagnostic testing occurred in October 2021. Attendees asked no questions about the update.

REGULATORY AGENCY UPDATES

EPA Update: Alana Lee (EPA) thanked everyone for attending this virtual meeting. She cited EPA's approval of the Interim Remedial Action Completion Report regarding Site 26, as noted earlier in the meeting. She also expressed appreciation for the work completed at Site 28 and eagerness to see results of the post-monitoring work upon installation of the HiPox system. EPA Region 9, in conjunction with the Office of Research and Development, has conducted a VI study that investigated preferential migration routes at several buildings in California, including three at Moffett. The report should be published soon, and Ms. Lee will provide a link to the report.

Water Board Update: Phyllis Flack (Water Board) reported that data from Site 14 indicated no presence of hydrocarbons in soil and minimal impacts on groundwater. Closure of the site is likely in early 2022. Extents of hydrocarbons at the Site 5 North Fuel Farm also have been delineated adequately in soil and groundwater, and the site poses very low risk. No further action has been recommended by the Navy. Mr. Yantos added now that the petroleum issues have been addressed at Site 5, the Navy will focus on the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) projects in Site 28.

ADDITIONAL UPDATES

Mr. Yantos provided an update on the Navy's PFAS investigations as requested by Mr. Unangst. The Navy and other federal agencies have been investigating PFAS nationwide. The Navy planned to start the CERCLA process for PFAS, but NASA had already prepared a report called a Preliminary Assessment (PA) for PFAS that encompasses the same areas of interest for the Navy. Therefore, the Navy will track the progress of the NASA PFAS investigations. NASA provided a comprehensive report, finalized a PA, and is in the sampling phase (Site Inspection). Contact NASA if you have questions. The PA document and approved Site Inspection work plan are publicly available on Geotracker: [GeoTracker \(ca.gov\) in the Ames Research Center section: https://geotracker.waterboards.ca.gov/profile_report.asp?global_id=SL608592714](https://geotracker.waterboards.ca.gov/profile_report.asp?global_id=SL608592714)

PUBLIC COMMENT PERIOD

- Mr. Siegel asked if the Navy is no longer liable for PFAS contamination cleanup at former NAS Moffett Field. Mr. Yantos replied, while NASA is taking the lead on investigating PFAS, the Navy and NASA will continue to discuss responsibility for remediation, if necessary.
- Dr. John Walton (Navy) responded to Mr. Siegel's earlier question about high concentration of *cis*-1,2-DCE in one well at Site 28 by noting that competitive kinetics (if the kinetics of the first degradation is higher than the second) might lead to a buildup of DCE. Determination of reaction rates outside of a laboratory environment is complex and hard to quantify, but the observed increase in *cis*-1,2-DCE could be a result of that compound being formed faster than it is degrading. Mr. Siegel opined that the DCE result is inaccurate.
- Vince Anderson (City of Sunnyvale) identified himself as the Fire Marshall for Sunnyvale. He thanked the RAB for inviting him to the meeting and for the information provided during the meeting. He cited plans for a large redevelopment project within the next 10 years, rendering knowledge of what occurs at Moffett beneficial.

FUTURE MEETING SCHEDULE

Mr. Yantos announced the tentative date for the next RAB meeting as Thursday, October 13, 2022, and that the Navy will send out more information to the RAB closer to that date. He noted that this will remain an annual meeting as long as there is work about which to update the RAB.

ADJOURN

Mr. Yantos thanked all present for attending the meeting. The meeting was adjourned at 8:30 p.m. The Navy can be contacted with additional comments or questions. Communicate these to:

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<u>Attendee</u>	<u>Affiliation</u>
RAB MEMBERS	
Gabriel Diaconescu	RAB Member
Rebecca Kohn	RAB Member
Libby Lucas	RAB Member

Lisa Matichak	Alternate RAB Member /City of Mountain View
Diane Minasian	RAB Member
Lenny Siegel	RAB Member
Greg Unangst	RAB Community Cochair
NAVY	
Wilson Doctor	Navy
Janet Lear	Navy
Brandon Mills	Navy
Sarah Ann Moore	Navy
John Walton	Navy
James Whitcomb	Navy
Chris Yantos	Navy
REGULATORY AGENCIES	
Phyllis Flack	Water Board
Lucrina Jones	EPA
Alana Lee	EPA
Terry Seward	Water Board
OTHER AGENCIES	
Vincent Anderson	City of Sunnyvale Fire Marshall
George Cook	Santa Clara Valley Water District
Garrett Turner	NASA
William Warmbrodt	NASA
NAVY CONTRACTORS	
Kelsey Cates	Navy Community Outreach
Jessica Harris	Navy Community Outreach
Carolyn Hunter	Navy Community Outreach
Tessa McRae	Navy Community Outreach

Tommie Jean Valmassy	Navy Community Outreach
OTHER ATTENDEES	
Keaton Belli	(none provided)
Karen Gruebel	EKI Environment and Water Inc.
Nicholas Hargis	(none provided)
Justin Jeong	(none provided)
John McLaughlin	Elevate Environmental Consultants Inc.
Nihal Oztek	CBRE/Google
Diane Prend	EPA
Madeline Skoog	(none provided)
Steve Williams	Former RAB member

Acronyms:

BRAC	Base Realignment and Closure
CBRE	Commercial Business Real Estate Group Inc.
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DCE	Dichloroethene
EPA	U.S. Environmental Protection Agency
GAC	Granulated activated carbon
HiPox	Hydrogen peroxide and ozone
NAS	Naval Air Station
NASA	National Aeronautics and Space Administration
Navy	U.S. Department of the Navy
PA	Preliminary assessment
PFAS	Polyfluoroalkyl substances
RAB	Restoration Advisory Board
SVOC	Semi-volatile organic compound
VI	Vapor intrusion
Water Board	San Francisco Bay Regional Water Quality Control Board
WATS	Westside Aquifer Treatment System