



FINAL NAVAL AIR STATION ALAMEDA Restoration Advisory Board (RAB) Meeting Minutes

www.bracpmo.navy.mil

Building 1, Suite 140, Community Conference Center
Alameda Point
Alameda, California

September 3, 2009

The following participants attended the meeting:

Co-Chairs:

Patrick Brooks	Base Realignment and Closure (BRAC) Program Management Office (PMO) West, BRAC Environmental Coordinator (BEC), Department of the Navy (Navy) Co-chair
Dale Smith	Restoration Advisory Board (RAB) Community Co-chair

Attendees:

Doug Biggs	Alameda Point Collaborative
Dave Cooper	U.S. Environmental Protection Agency (EPA)
Michele Ellson	Community member
Catherine Haran	Navy Remedial Project Manager
Fred Hoffman	RAB
George Humphreys	RAB
John Kaiser	San Francisco Regional Water Quality Control Board (Water Board)
Joan Konrad	RAB
James Leach	RAB
George Leyva	Community member
Gretchen Lipow	Community member
Frank Matarrese	Alameda City Council
John McGuire	Shaw Environmental, Inc. (Shaw)
Marsha Pendergrass	RAB Facilitator

Kurt Peterson	RAB
Charlie Ridenour	Department of Toxic Substances Control (DTSC)
Peter Russell	Russell Resources/ Alameda Reuse and Redevelopment Agency (ARRA)
Bill Smith	Community member
Radhika Sreenivasan	ChaduxTt
Jean Sweeney	RAB
Jim Sweeney	RAB
Michael John Torrey	RAB
Xuan-Mai Tran	EPA
Tommie Jean Valmassy	ChaduxTt
John West	Water Board

The meeting agenda is provided in Attachment A.

MEETING SUMMARY

I. Approval of August RAB Meeting Minutes

Marsha Pendergrass (Facilitator) called the September 2009 Former Naval Air Station Alameda, Alameda Point RAB meeting to order at 6:35 p.m.

Ms. Pendergrass asked for comments on the August 2009 RAB meeting minutes. RAB members provided comments, which will be incorporated into the final set of minutes for August 2009.

The following comments were provided by Michael John Torrey (RAB):

- Page 5 of 9, section III, second paragraph, second sentence, "...remedial investigation (RI) that lists of the species of plants and birds identified during the surveying" will be revised to "...remedial investigation (RI) that lists the species of plants and birds identified during the survey."

The following comments were provided by George Humphreys (RAB):

- Page 2 of 9, section I, second paragraph, will be revised to the following according to tape recording:

Marsha Pendergrass introduced herself as the RAB facilitator. Mr. Leach asked Ms. Pendergrass for her qualifications to understand technical issues and nomenclature. Ms. Pendergrass said that a facilitator provides no technical information and does not provide input on technical matters, and her job is purely process. She said that a facilitator would

make sure that everybody gets a fair chance to voice his/her opinion at the meeting. About her qualifications, she said that she has been a facilitator for last 20 years and has worked for City of San Francisco, Hunters Point, a number of RABs, and a number of state and federal agencies. Ms. Pendergrass is a management consultant by training. She went to school in San Mateo County and graduated from Baruch School of Public Affairs in New York. Mr. Brooks said that the Navy was asked to provide a facilitator to the meeting primarily to ensure that all opinions are respected. Mr. Torrey said that the RAB had elected Ms. Smith as its leader, and having Ms. Pendergrass chair the meeting was inappropriate. Mr. Brooks requested that the RAB be patient with Ms. Pendergrass, stating that he had worked with her and thought that the RAB would appreciate the work that she has done. Mr. Brooks requested the RAB to give the facilitation process a chance. He said that *“this is an experiment and if Ms. Smith, I, and Ms. Pendergrass do not think it is working, we will do otherwise.”* He added that he thinks positive of having a facilitator and feels it would help in the future.

- Page 7 of 9, section III, fifth paragraph, first sentence: “...lead in the soil around the building” will be revised to “...lead in the soil around buildings.”

Joan Konrad (RAB) referenced page 8 of 9, section V, first paragraph, and requested the co-chairs discuss as an agenda item how the RAB members could take on the responsibility of informing the community about the work proceeding at the base. Mr. Brooks said that he would make Ms. Konrad’s request an action item for the next month.

Fred Hoffman (RAB) indicated that Susan Euing (U.S. Fish and Wildlife) referred to on page 7 of 9, section III, fourth paragraph is not on the list of attendees for the meeting. Ms. Euing will be added to the list of attendees.

The following comments were provided by Ms. Smith:

- Page 3 of 9, section II, second paragraph, third sentence: “yearly” will be changed to “periodically.”
- Page 3 of 9, section II, second paragraph, fourth sentence: “yearly investigations” will be corrected to “periodic investigations.”
- Page 4 of 9, section III, second paragraph: insert before first sentence, “Mr. Brooks said that the verbal comments received at the RAB meeting are not considered as formal comments and in order to be considered as formal, verbal comments need to be made at the public meeting or written comments need to be submitted to the Navy during the comment period of the proposed plan.”
- Page 5 of 9, section III, first paragraph, second sentence: “...surveying penetrated only 2 feet to 24 inches” will be revised to “...surveying penetrated only 20 to 24 inches.”

- Page 5 of 9, section III, last paragraph, first sentence: “Mr. Humphreys said that the dredge soils came from the Seaplane Lagoon and...” will be revised to “Mr. Humphreys said that the dredge soil in Site 2 came from the Seaplane Lagoon and....”
- Page 6 of 9, section III, first paragraph, first sentence: “...cross section shows that...” will be revised to “...cross-sections show that....”
- Page 6 of 9, section III, fourth paragraph, fourth sentence: “...be issued by 2010” will be corrected to “...be issued in early 2010.”

The August RAB meeting minutes were approved with the above modifications.

II. Co-Chair Announcements

The RAB voiced its concern about having a facilitator for the meeting. Pat Brooks (RAB Navy Co-Chair) said that the facilitator helps to conduct the meeting more smoothly and in a professional manner. He added that the Navy, Regulatory Agencies, and the RAB all have voices to favor or oppose a facilitator for the meeting. Ms. Smith said that she agrees with Mr. Torrey’s comment last month and added that because Ms. Pendergrass was running the meeting, there would be no need for a Community Co-Chair. Ms. Pendergrass clarified that as a RAB facilitator, her role is to ensure that the meeting is well organized but does not have the authority to comment on the technical aspects and issues of the meeting. She said that one advantage of having a facilitator is maintaining the meeting schedule. She added that Ms. Smith has a lot of responsibility as Community Co-Chair, she understands the technicalities of a project and has expertise on issues at the various sites, which is important. A facilitator could help in handling the process of the meeting. Kurt Peterson (RAB member) asked Mr. Brooks if the Navy is authorized to appoint a facilitator and wanted to know why there is a need for one. Mr. Brooks said that he has received complaints from several people about unprofessional behavior at the RAB meetings. In order to keep the meetings going smoothly and to maintain a professional and well-mannered behavior, the Navy accepted the recommendation of having a facilitator at the meeting. There was discussion about whether the RAB member’s should vote in favor of or against the facilitator at the meeting, but no definite decision resulted.

Ms. Konrad asked how the RAB vote is handled in the Record of Decision (ROD). Mr. Brooks said that the verbal comments received at the RAB meeting are informal, and in order to be considered as formal, verbal comments must be made at the public meeting or written comments must be submitted to the Navy during the comment period of the Proposed Plan. He added that responses to formal comments are provided in the responsiveness summary in the ROD. Mr. Brooks said that the RAB comments made during the RAB meetings on documents do not become part of the record for that document, and the RAB needs to provide its comments in writing to receive formal consideration. Mr. Hoffman asked what happens to RAB letters of comment submitted to the Navy at a time outside the public comment period. Mr. Brooks said that in the example where comments are received on a draft document, the Navy would respond

to the comments, and that they are usually included as an appendix in the next version of the document.

Mr. Humphreys noted that the Site 24 letter does not include his signature. He re-signed the letter and it was given to Mr. Brooks.

Ms. Smith asked the Navy if it could provide a map that shows the Marsh Crust boundary. Mr. Brooks said that he would provide the RAB a map. Ms. Smith asked when the dredging work at Seaplane Lagoon is scheduled. Mr. Brooks replied that the dredging is scheduled for spring 2010. Ms. Smith asked if there was a timeline on the treatability study report for oil-water separator (OWS) 163. Mr. Brooks said that the field work is ongoing and the report would not be submitted for some time.

Mr. Brooks distributed the Site 24 RAB Letter of Comments submitted to the Navy which will be attached to the Final June RAB meeting minutes, and included in the Site 24 Record of Decision Responsiveness Summary. Mr. Brooks noted that a Fact Sheet for Site 27 discussing the remedial action was mailed to the RAB and Alameda community members. He added that the ROD and Remedial Design (RD)/ Remedial Action (RA) Work Plan (WP) are complete. Mr. Brooks said that the Community Involvement Plan (CIP) update has been submitted and the document is available at the information repository for review. A table in the CIP shows the actions completed at different sites. Mr. Brooks distributed the *September Upcoming Documents for RAB Review* (Attachment B-1). Mr. Brooks informed the RAB that the review period for the Site 1 ROD has been extended by two weeks until September 17, 2009.

Mr. Hoffman requested a presentation on the Site 27 RA with the designers before finalizing the design. Mr. Brooks said that the design has been finalized and remedial work has already begun. Mr. Hoffman requested the presentation be given at a technical meeting before the next monthly RAB meeting and before remedial work begins. Mr. Brooks replied that he was available and that perhaps a meeting time could be arranged via e-mail.

Mr. Brooks reviewed the Action Items. (See Action Item list on page 10 of these minutes.)

Action Item 1 – Pending. Presentation pushed to a later meeting.

Action Item 2 – Pending. Mr. Brooks will communicate the results of the investigation conducted by a diver during the next meeting.

Action Item 5 – Pending. Mr. Brooks said that discussion is ongoing on the basewide radiological investigation by the Radiological Affairs Support Office (RASO).

Action Item 6 – Pending. Mr. Brooks noted that he would like to provide a site-by-site review. Mr. Hoffman requested Mr. Brooks to also provide a monthly update on all sites during the meeting. Mr. Brooks said that he would provide a sheet with monthly update on all sites.

Action Item 7 – Completed. Mr. Brooks noted that the Fact Sheet is included in the meeting minutes. Mrs. Sweeney said that she read an article about creosote specifying it as a carcinogen. Mr. Humphreys said that creosote in the wharf is leaching into the water. He added that because the wharf was created by the Navy and the City is not going to use it, the wharf must be taken out.

Action Item 8 – Completed.

III. Installation Restoration Site 1 ROD

Mr. Brooks introduced Catherine Haran (Navy RPM) to begin the presentation on the Installation Restoration (IR) Site 1 ROD (Attachment B-2). Ms. Haran provided a brief history of her involvement and started the presentation.

During the review of Slide 4, Mr. Torrey asked which volatile organic compound (VOC) was found in the groundwater plume. Ms. Haran said vinyl chloride, trichloroethylene (TCE), and other chlorinated solvents were found. Mr. Humphreys asked if the chemical hot spots were in different locations than that of the VOC plume. Ms. Haran said that the soil chemical hotspots to be excavated were in different locations than the VOC plume.

During the review of Slide 6, Ms. Smith said that some areas could not be sampled due to obstructions and asked if the Navy was planning to investigate these areas. Ms. Haran replied that the remedy will address the areas that have obstructions and could not be surveyed during the Time Critical Removal Action (TCRA).

During the review of Slide 7, Ms. Smith asked if investigations had proceeded through the pavement at Area 2b. Ms. Haran replied that no investigations had yet been conducted, but some would occur during the remedial design. She added that the remedy selected is more protective since it considers the possibility of contamination below the pavement, and includes institutional controls (IC) to restrict disturbance of soil to ensure that the remedy remains in place. Ms. Smith said that investigation should occur before transfer to the City in order to know how much contamination is beneath the pavement. Mr. Peterson said that 2 feet of soil cover will not be adequate to keep the contaminants from surfacing. Mrs. Sweeney said that soil cover will be eroded by wind. Ms. Haran noted that the soil cover will be covered with vegetation to prevent erosion. Mr. Humphreys said that the City has plans to construct a bay trail in this area. Mr. Brooks said that the 2-foot soil cover will be safe for people to walk upon, but if the bay trail needs to be engineered and constructed on the cover, this must occur according to the work plan approved by the agencies. Mr. Peterson asked about the age of the taxiway. Mrs. Sweeney said that a rail line had preceded the taxi way, and Mr. Brooks said that he thought the 13/31 runway was added in the 1940s.

During the review of Slide 8, Mrs. Sweeney said that the City has a plan to have a park at Area 4. Ms. Haran said that she did not know of this plan. Bill Smith (community member) said that the City does have plans to build a park. Ms. Smith noted that page 9-9 of the ROD states that a

park cannot be built and no access to the area would be available. Mr. Brooks said that the area will be available for recreational use. A park is possible but the engineering details of the park need to be worked out. Mr. Brooks clarified that the development of any kind of park would not be allowed to disturb the soil cover. Mr. Humphreys suggested that the barge be removed or covered because it constitutes an attractive nuisance. Mr. Brooks said that removal of the barge is not part of the remedy. Ms. Smith added that because rip-rap will be present along that area, the barges will be accessible to the visitors. Ms. Haran agreed. Ms. Smith asked if the second firing range was being investigated. Ms. Haran stated she would find out more information on that.

Mr. Humphreys asked whether rodent protective barriers would be installed. Ms. Haran said that a thick, 4-foot soil cover would address the rodent issue. Mr. Brooks added that the operation and maintenance (O&M) would ensure that rodents do not burrow into the landfill. Ms. Smith said that the rodents can burrow down to 6 feet and added that by removing the rodents, the tern species could become food for the raptors. Mrs. Sweeney asked when the groundwater plume would be treated. Ms. Haran replied that the plume would be treated before the soil cover is placed.

Note: Ms. Haran would like to correct the above statement. The VOC plume will be treated after placement of the soil cover.

Ms. Smith said that the Navy has no strategy of addressing the VOC plume if the monitored natural attenuation fails. Ms. Haran said that the Navy is responsible for meeting the remediation goal and is required to re-evaluate the remedy if it fails. Mr. Humphreys asked what will be done if operation and maintenance personnel find a squirrel hole. Ms. Haran said that she did not know at this time and details on that would be provided in the remedial design. Ms. Smith asked if animals will be killed as part of O&M. Ms. Haran said that has not been determined, but capture and release could be an option.

Ms. Smith asked why the RAB's comments in relation to State regulations 9249 and 6816 were not addressed in this presentation. Ms. Haran said that the Navy developed agree to disagree language and that it has not changed from the draft version. Mr. Smith asked what the benefit was in capping the wetland since it will not protect the groundwater. Ms. Haran said that the wetlands at Site 1 do not provide the same value and functionality as the Site 2 wetlands. John West (Water Board) said that the wetland will be replaced at Site 2. Ms. Smith added that it is 2-to-1 replacement.

Mr. Hoffman stated his concern that the groundwater remedy would not be changed. He said that the dense nonaqueous phase liquid (DNAPL) in the source area at the plume is within 50 meters of the Bay. He added that the Navy has not monitored the plume in 11 years. Ms. Haran said that the plume was monitored as part of the basewide groundwater monitoring program. Ms. Haran said that the Navy has characterized the plume well enough to select a remedy. Mr. Hoffman asked when the last characterization was done. Ms. Haran replied that it occurred during the remedial investigation (RI). Mr. Hoffman noted that 11 years had passed since the RI and added that the RI did not characterize the plume well. Mr. Hoffman said that characterizing

the plume again is necessary to see if it has changed. He added that if the plume has changed, the remedy must be changed as well. Mr. Brooks disagreed that the plume is not well characterized. Mr. Hoffman asked to see a copy of the basewide annual groundwater monitoring report. Mr. Brooks said that he would also review the report and update the RAB. Mr. Hoffman asked Mr. Brooks if he could authorize Mr. Marie Einarson (AMEC) to talk to him. Mr. Brooks said that Mr. Hoffman did not need his permission. Mr. Hoffman requested that the BCT members discuss re-characterizing the plume and talk about whether the groundwater plume at Site 1 is ready for the ROD at the next BCT meeting. Mr. Hoffman requested to be allowed to attend the BCT meeting to discuss the VOC plume.

IV. BRAC Cleanup Team (BCT) Update

Mr. West said that the BCT did not meet in August, and that the BCT members have discussed the issues at Site 1 during the July BCT meeting. Among the items of interest were the existence of a firing range near the officer's quarters and sinking of Navy ship as part of the site filling operations. Mrs. Sweeney also said that there was a well where the officer's club is

Ms. Smith asked if the Water Board has talked about the State regulation that the RAB commented on, which the Navy is refusing to acknowledge at Site 1 and also at Site 2. Mr. West said that the anti-degradation and discharge regulation is an Applicable or Relevant and Appropriate Requirement (ARAR) with which the Navy agrees to disagree. John Kaiser (Water Board) said that the EPA has certain criteria by which they do not consider state policy as an ARAR. He added that 6816 is called the anti or non degradation policy, and 9249 is a policy that articulates principles and procedures for investigation and cleanup of contaminated sites. Mr. Kaiser said that these policies are not numerical standards but are narrative standards, which is why these are not considered ARARs. Mr. Kaiser said that often, an agreement to disagree means that the end result of the remedial action will solve the problem. Mr. Hoffman asked for EPA's stand on movement of contaminants into the Bay. Mr. Kaiser said that each of the nine regional boards of California has a water quality control plan called a Basin Plan. Chapter 3.4 of the San Francisco Bay region's Basin Plan stipulates that remedial action for a groundwater plume adjacent to a surface water body is to proceed in a manner that does not impair the surface water quality standards. He added that EPA also has an anti-degradation policy but it focuses upon anti-degradation with respect to navigable waters. Ms. Haran said that under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), qualitative standards do not qualify as an ARAR, and EPA agrees with that. Mr. Hoffman requested the BCT discuss whether the state regulation should be considered an ARAR, along with characterization of the plume that may potentially discharge into the Bay. Mr. Hoffman asked if ARARs are not required for all activity by the Federal Facilities Agreement. Mr. Brooks said that ARARs apply only to the selected remedy. Mr. Brooks clarified that legal requirements are in place at all stages of activity, but ARARs apply only to the remedy. Mr. Smith said that he is shocked to hear that the Site 1 VOC plume has not been monitored for 11 years, and this is not a good way to build public confidence. He stated that data need to be obtained and reviewed from the groundwater monitoring wells. Mr. Brooks said that he would provide a package of information that detailed the VOC plume monitoring at the next RAB meeting. Mr. Humphreys noted that the structure is no longer performing a useful function as a pier and the exemption for creosote as it would preserve should no longer apply.

Jim Leach (RAB member) asked if the monitoring wells would be adjusted to accommodate the soil cover. Ms. Haran said that all the wells would be destroyed and new monitoring wells would be installed. Placement of the wells will be discussed during the remedial design phase and the RAB will have an opportunity to comment on that as well. Mr. Humphreys stated the vicinity of the plume was sampled 11 years ago, but one well situated opposite of the plume is sampled every four to six months. Mr. Humphreys added that the one data point is not sufficient to conclude whether or not the plume is moving.

V. Community and RAB Comment Period

Mrs. Sweeney showed a U.S. Naval Air Station Book from the 1940s and said that the book is very informative. Mrs. Sweeney said that she would like to share the book with the RAB if the members want to look at it.

Mr. Humphreys asked if Ms. Smith had a list of documents received in August. Ms. Smith said that she would have a list of documents received next month. Mr. Smith said that during the previous month's meeting, the Navy said that it was not responsible for cleaning the lead and asbestos in buildings; Mr. Smith asked if the Navy had any exceptions other than this. Mr. Brooks said no. Mr. Humphreys said that Mr. Brooks had mentioned earlier at the meeting that the Navy is not responsible for cleaning up creosote on the piers. Mr. Brooks clarified that creosote is an accepted treatment for wood used in marine applications, legal to use, and that the Navy is not responsible to clean it up.

Ms. Smith said that the Navy has repeatedly said that the RAB is responsible to provide information from the public to the Navy. She said the California EPA, U.S. EPA, and Office of Undersecretary of Defense all state that "the purpose of the RAB is to facilitate public participation in Department of Defense (DOD) environmental restoration activity at active and closing DOD installations. The RAB is intended to bring together people who reflect diverse interests within a local community, enabling early and continuous flow of information between the affected community, DOD, and the environmental and oversight agencies. The RAB is established to ensure that all stakeholders have a voice and can actively participate." Ms. Smith said that the RAB is not required to disseminate information from the Navy to the community.

Ms. Smith said that she feels pressured by the Navy to accept the RAB facilitator. Ms. Smith said she had received an e-mail to talk to the facilitator and Navy just that day, a few hours before the meeting, and such short notice is of concern to her. Ms. Smith said that the RAB members have a difference of opinion with the Navy and have agreed to disagree, but she feels the RAB is being punished because it disagrees. Ms. Pendergrass asked Ms. Smith why she was opposed to the facilitation process. Ms. Smith said that she is concerned about the pressure of accepting a facilitator. Mrs. Sweeney asked what was accomplished at the meeting by having a facilitator versus not having a facilitator. Mr. Peterson said that the RAB members had not been given the opportunity to vote on a facilitator, nor was this discussed. He added that a facilitator was thrust upon the RAB, which is offensive to the RAB members. Ms. Konrad said that personal attacks on the regulators have occurred in the past, which were uncalled for, and said that this must be prevented. She added that she also thinks that the RAB is not required to but

should share the facts on cleanup activities at Alameda. Ms. Konrad said that she hopes that the RAB can exert some effort to get the information out to the public. Mr. Peterson said that the monthly updates on each site at the base provided by the Navy would help the RAB to share information with the public. Ms. Haran said that the Navy could provide that information on a monthly basis. Mr. Humphreys said that he had delivered two presentations to the public, and it took about 3 weeks to prepare information that could be given to the community. He said that this is not easy to do. Ms. Konrad said that the Navy should provide the RAB the material. Mr. West suggested a technical subcommittee meeting to prepare an outreach newsletter. No decision resulted on whether to establish a technical subcommittee to prepare an outreach newsletter.

Mr. Brooks noted that the next RAB meeting would be held on October 1, 2009.

VI. Meeting Adjournment

The meeting was adjourned at 9:10 p.m.

Action Items

Action Items:	Previous Item #/ Action Item Status/ Action Item Due date:	Initiated by:	Responsible Person:
1. Request for Presentations: a. Bayport Sewer systems and change in the plumes over time.	1./ Pending/ TBD.	RAB	Mr. Brooks
2. Provide information on the large submerged, unidentified object and radium-226.	2./ Pending/ October 1, 2009.	RAB	Mr. Brooks
3. Provide update on basewide radiological investigation by RASO.	5./ Pending/ October 1, 2009.	RAB	Mr. Brooks
4. Provide a list of cleanup improvements for all sites.	6./ Pending/October 1, 2009	RAB	Mr. Brooks
5. Provide Fact Sheet on creosote.	7./ Completed/ NA	Mr. Humphreys	Mr. Brooks
6. Provide a copy of the Site 24 Letter sent by the RAB to the Navy.	8./ Completed/ NA	Mr. Humphreys	Mr. Brooks
7. Add discussion topic “Methods of RAB communication of Remedial work at Alameda to the community.”	0./ New/ October 1, 2009	Ms. Konrad	Mr. Brooks
8. Provide RAB with the latest map on the extent of Marsh Crust.	0./ New/ October 1, 2009	Ms. Smith	Mr. Brooks
9. Schedule technical meeting on Site 27 Remedial Action.	0./ New/ October 1, 2009	Mr. Hoffman	Mr. Brooks
10. Provide a monthly update on cleanup for all sites to the RAB.	0./ New/ October 1, 2009	Mr. Hoffman	Mr. Brooks
11. Review the basewide annual groundwater monitoring report and send a copy of the report to Mr. Hoffman. Also provide information on the VOC plume.	0./ New/ October 1, 2009	Mr. Hoffman	Mr. Brooks
12. Provide information on the second firing range at Site 1.	0./ New/ October 1, 2009	Ms. Smith	Ms. Haran
13. Provide a current list of documents received.	0./ New/ October 1, 2009	Mr. Humphreys	Ms. Smith

ATTACHMENT A

**NAVAL AIR STATION ALAMEDA
RESTORATION ADVISORY BOARD MEETING AGENDA**

September 3, 2009

(1 page)

RESTORATION ADVISORY BOARD

NAVAL AIR STATION, ALAMEDA

AGENDA

SEPTEMBER 3, 2009, 6:30 PM

ALAMEDA POINT – BUILDING 1 – SUITE 140

COMMUNITY CONFERENCE ROOM

(FROM PARKING LOT ON W MIDWAY AVE, ENTER THROUGH MIDDLE WING)

<u>TIME</u>	<u>SUBJECT</u>	<u>PRESENTER</u>
6:30 - 6:45	Approval of Minutes	Ms. Dale Smith
6:45 - 7:00	Co-Chair Announcements	Co-Chairs
7:00 – 8:00	IR Site 1 ROD	Catherine Haran
8:00 – 8:15	BCT Update	John West
8:15 – 8:30	Community & RAB Comment Period	Community & RAB
8:30	RAB Meeting Adjournment	

ATTACHMENT B

**NAVAL AIR STATION ALAMEDA
RESTORATION ADVISORY BOARD MEETING HANDOUT MATERIALS**

September 3, 2009

- B-1 September upcoming documents for RAB review. Distributed by Pat Brooks, Navy Co-Chair (1 page)

- B-2 Installation Restoration Site 1 Record of Decision presentation handout. Distributed by Catherine Haran, Navy remedial project manager (7 pages)

ATTACHMENT B-1

SEPTEMBER UPCOMING DOCUMENTS FOR RAB REVIEW

(1 page)

Upcoming Documents for RAB Review

September 2009

Size	Document		Available for Review
Small	Site 27	Remedial Action Fact Sheet (chemical oxidation)	Ongoing
Medium	Basewide	Draft Community Involvement Plan	Ongoing
Medium	Site 1	Draft Final Record of Decision	Ongoing
Medium	Site 30	Draft Final Record of Decision	Ongoing
Medium	Site 35	Draft Final Record of Decision	Ongoing
Medium	Site 5	Draft Removal Action Completion Report (6-phase heating)	Ongoing
Medium	Site 34	Draft Feasibility Study	Ongoing
Medium	Site 1	Draft Pre-design Work Plan	September
Medium	Site 24	Draft Record of Decision	September
Medium	Basewide	Basewide Groundwater Monitoring Plan	September
Large	OU-2A	Draft Feasibility Study	October
Medium	OU-2B	Draft Treatability Study Work Plan (SERDP Project)	October
Small	OU-2B	Draft Soil Gas/Indoor Air Sampling Report (Building 163 area)	October

ATTACHMENT B-2

IR SITE 1 RECORD OF DECISION PRESENTATION HANDOUT

(7 pages)



RAB Presentation



Update of IR Site 1 ROD Alameda Point, CA

Catherine Haran
Remedial Project Manager
BRAC PMO West

September 3, 2009



Presentation Outline



- Milestones
- Overview of IR Site 1 Remedy
- Site Boundary Change
- Current Radiological Conditions
- Changes to Draft Final ROD
- Path Forward



Recent IR Site 1 Milestones



1. Draft ROD Submitted: April 2007
2. IR Site 1, 2, & 32 TCRA: March 2007 - April 2008
3. IR Site 1 & 32 Boundary Revision: August 2008
4. Draft Final ROD w/ Revised Responsiveness Summary Submitted: August 2009

3



OVERVIEW OF ROD REMEDY



- Containment Remedy – Engineered 4-foot Soil Cover
- Excavation of Radiological & Chemical Hotspots in Surface Soils Prior to Cover Placement.
- Excavation & Offsite Disposal of Former Burn Waste Area Adjacent to Shoreline.
- Active Groundwater Remediation at VOC Plume
- Long-term Groundwater Monitoring Program
- Institutional Controls

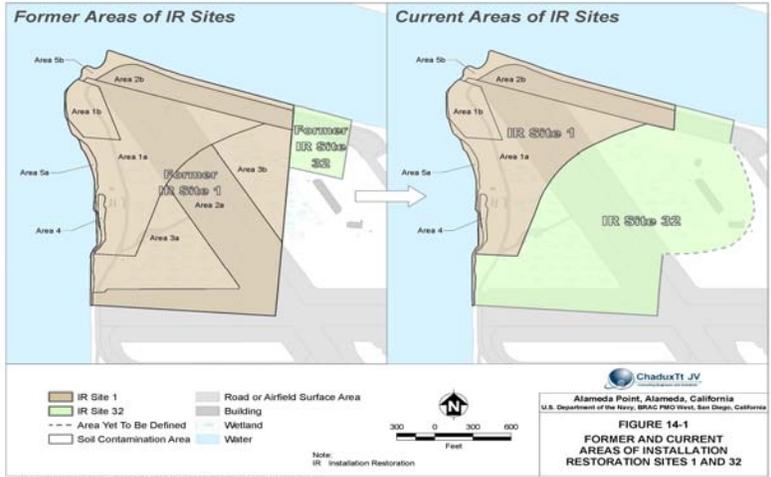
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Site 1 and 32 Boundary Changes



IR Site 1 ROD includes Areas 1a, 1b, 2b, 4, 5a, and 5b. Remedial alternatives for Areas 2a, 3a, and 3b will be part of the ROD for IR Site 32.



Current Surface Radiological Measurements at IR Site 1



Results from 2009 TCRA Report
(Samples results are only representative of areas outside of former waste disposal cells)

Ra-226
410 Samples Collected Post-Excavation (~2 ft bgs)
Range = 0.058 pCi/g to 23.8 pCi/g
* For Comparison, the Storm Drain TCRA Action Level for Ra-226 = 1.56 pCi/g

Sr-90
45 Samples Collected Post-Excavation (~2 ft bgs)
Range = Non-Detect to 1.56 pCi/g
* For Comparison, the IR Site 1 ROD Remedial Goal (RG) for Sr-90 = 0.331 pCi/g

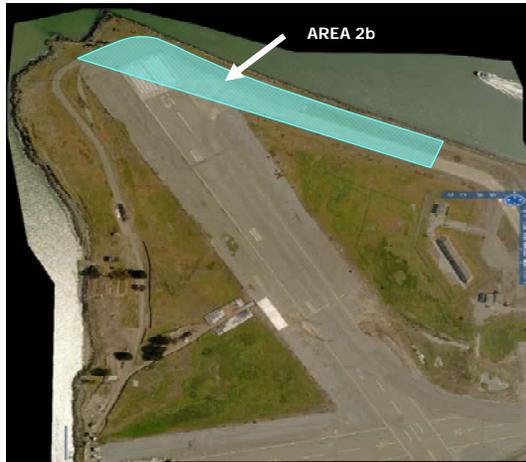
- Figure depicts cumulative gamma scan from 2004, 2006, and 2008 radiological surveys
- Figure depicts radiological surface (1-2 ft. bgs) conditions. Measurements are unreliable below 1-2 ft, so contamination is possible in subsurface.
- From the 2009 TCRA Report, background gamma readings fall within the "Green" range
- IR Site 1 remedy was revised to incorporate the findings of the TCRA.



AREA 2b



ALTERNATIVE	DRAFT ROD REMEDY	DRAFT FINAL ROD REMEDY
S2-3	Pavement Maintenance & ICs	2-Foot Soil Cover & ICs



- More compatible with adjacent soil cover at Area 1a and 1b.
- Prevent exposure to possible radiological contamination that may be present beneath the runway area.
- ICs will prevent land disturbing activities to ensure the soil cover and pavement remains protective.

7



AREA 4



ALTERNATIVE	DRAFT ROD REMEDY	DRAFT FINAL ROD REMEDY
S4-4	No Further Action Removal, Screening, and Offsite Disposal of Berm (S4-4) was implemented in 2007 TCRA	ICs



- The 4-foot soil cover for Area 1a is going to be extended over Area 4 (as part of Alternative S6-4) to prevent exposure to potential radiological contamination.
- ICs will prohibit land disturbing activities to ensure the soil cover remains protective.

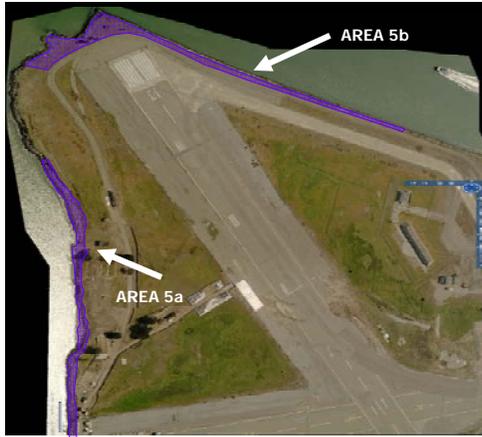
8



AREA 5



ALTERNATIVE	DRAFT ROD REMEDY	DRAFT FINAL ROD REMEDY
S5-4	Confirmation Sampling (chemical only), Hot Spot Relocation (chemical only), and ICs	Confirmation Sampling (radiological & chemical), Hot Spot Relocation (radiological & chemical), Riprap Placement, and ICs



- Change adds testing and removal of radiological contamination.
- On the seaward side of the existing riprap, soil that exceeds RGs will be removed to 2 feet; the excavations will be backfilled; riprap will extend below low tide line.
- On the landward side of the existing riprap, radiological material exceeding gamma radiation readings above approximately 2X background will be removed prior to 4-foot soil cover placement.

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SITE-WIDE RADIOLOGICALLY-IMPACTED SOILS



ALTERNATIVE	DRAFT ROD REMEDY	DRAFT FINAL ROD REMEDY
S6-4	Removal of Radium Impacted Waste in Areas 3, 5, and 1 location in Area 1b (Implemented in 2007 TCRA); Cover/Cap Remaining Radium-Impacted Waste in Area 1; and Wetland Mitigation Plan (WMP)	Removal of Radium Impacted Waste at Site 1 and Cover/Cap Remaining Radiologically-Impacted Waste in Site 1



- Alternative was applied across IR Site 1 instead of being limited to specific areas. This change addresses the findings of the 2009 TCRA Report.
- 4-foot soil cover will extend over Area 4 to existing riprap within Area 5.
- Radiological material exceeding gamma radiation readings above approximately 2X background will be removed from top 1 foot before cover placement.
- Samples will be analyzed for all radionuclides of concern and a risk assessment will be performed prior to soil cover placement.
- WMP omitted since this component was in regards to Area 3 wetlands, which are no longer part of IR Site 1.

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OTHER CHANGES



- Developed Remediation Goals (RGs) for all radionuclides identified in the 2007 Historical Radiological Assessment (HRA): radium-226, cesium-137, strontium-90, depleted uranium, uranium oxide, thorium-232, and cobalt-60.
- Included radionuclides in groundwater monitoring program.
- Updated “Nature and Extent of Contamination in Soil” (Section 5.3.1) to demonstrate historic and current radiological conditions at IR Site 1.

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SUMMARY OF IR SITE 1 REMEDY



- **There has been no change to the Area 1a, 1b, or groundwater remedy.**

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Path Forward



1. Final IR Site 1 Record of Decision (ROD):
September 17, 2009
2. Draft Pre-Design Sampling & Analysis Plan (PDSAP):
September 17, 2009
3. Pre-Design Characterization Work to begin:
December 2009
4. Remedial Action to begin by December 2010.