FINAL
NAVAL AIR STATION ALAMEDA RESTORATION ADVISORY BOARD
MEETING SUMMARY

www.bracpmo.navy.mil
Building 1, Suite 140, Community Conference Center
Alameda Point
Alameda, California

November 6, 2008

The following participants attended the meeting:

Co-Chairs:	
Patrick Brooks	Base Realignment and Closure (BRAC) Program Management Office (PMO) West, BRAC Environmental Coordinator (BEC), Navy Co-chair
George Humphreys	Restoration Advisory Board (RAB) Community Co-chair
Attendees:	
Russ Bunker	AMEC
Anna-Marie Cook	U.S. Environmental Protection Agency (EPA)
Peter Guerra	AMEC
Fred Hoffman	RAB
John Kaiser	San Francisco Regional Water Quality Control Board (Water Board)
Joan Konrad	RAB
John Kowalczyk	BRAC PMO West, Lead Remedial Project Manager (RPM)
Jeff Knoth	RAB
Dan Kwiecinski	AMEC
James Leach	RAB
Dot Lofstrom	California Environmental Protection Agency (Cal/EPA) Department of Toxic Substances Control (DTSC)
Gretchen Lipow	Community member
John McMillan	Shaw Environmental, Inc.
Mary Parker	BRAC PMO-West, RPM
Kurt Peterson	RAB
Peter Russell	Russell Resources/Alameda Reuse and Redevelopment Authority (ARRA)

Derek Robinson	BRAC PMO-West, RPM
Marcus Simpson	DTSC Public Participation Specialist
Dale Smith	RAB
Radhika Sreenivasan	St. George Chadux Corp.
Jim Sweeney	RAB
Jean Sweeney	RAB
Michael John Torrey	RAB
John West	Water Board

The meeting agenda is provided in Attachment A.

MEETING SUMMARY

I. Approval of Previous RAB Meeting Minutes

Mr. Humphreys called the meeting to order at 6:30 p.m.

Mr. Humphreys provided the following comments on the previous RAB meeting minutes:

- Page 5 of 12, first paragraph, after last sentence insert the statement, "Mr. Humphreys stated that the RAB needs a presentation on the Site 2 feasibility study and the Operable Unit (OU)-2A and OU-2B data gap sampling results."

- Page 6 of 12, fourth paragraph, third sentence, "…road end barrier and shoreline seismic stability…" will be changed to, "… rodent barrier and shoreline seismic stability…."

- Page 7 of 12, third paragraph, fourth sentence, "…Area 1b - burn area, Area 4 - groundwater treatment and the firing range berm area…" will be changed to, "…Area 1b - burn area, the groundwater treatment and Area 4 - firing range berm area…."

- Page 9 of 12, third paragraph, last sentence, "Mr. Brooks explained that the straight line on the graph." will be revised to "Mr. Brooks explained that the upward sloping line on the graph…."

- Page 10 of 12, second paragraph, before the first sentence insert the statement, "Mr. Humphreys asked which slide showed the debris pit. Mr. Brooks replied, Slide 11."

- Page 10 of 12, fifth paragraph, third sentence, "Ms. Cook said that the property appears to be transferred to the Veterans Administration, but there is no clear plan for its reuse" will be revised to, "Ms. Cook said that the property is proposed to be transferred to the Veterans Administration, but there is no clear plan for its reuse, whether as a hospital or an outpatient clinic."

- Page 11 of 12, first paragraph, last sentence, "… the subject property cannot be transferred before the remedy is completed" will be changed to, "… the subject property can be transferred before the remedy is completed."

- Page 11 of 12, last paragraph, first sentence, "Mr. Humphreys said that the Navy listed a figure of $200 million several years ago that would be spent on remediation work" will be changed to, "Mr. Humphreys said that the Navy listed a figure of $200 million several years ago that had been spent on remediation work."

- Page 12 of 12, Action Item 1, "New" will be changed to "Continued from September RAB meeting."

- Page 12 of 12, add action items: Action Item 3, Mr. Brooks will respond to the question regarding depth and sub-grade volume excavated from the firing range berm and radiological survey of berm material (Question 5 of the August list); Action Item 4, request for presentations – OU-5/IR02 (Fleet and Industrial Supply Center Oakland, Alameda Annex [FISCA]) groundwater cleanup, Site 2 feasibility study, the data gap sampling results of OU-2A and OU-2B, and OU-2C.

Mr. Torrey provided the following comments:

- Page 10 of 12, first sentence; "Mr. Torrey asked if the radioactive anomalies were…" should be deleted.

The approval of minutes was left open for discussion until next month.

II. Co-Chair Announcements

Mr. Humphreys distributed the list of documents and correspondence received during October 2008 (Attachment B-1). Mr. Humphreys noted that document items 2 and 3 are related to the OU-5/FISCA groundwater treatment program. Item 5 is a report on in situ chemical oxidation pilot test relating to Site 26. Mr. Humphreys said that this report was dated August 2008 but was received on October 22. Item 6 is the final feasibility study (FS) for the Site 2 landfill. Item 7, the draft work plan, is a program for conducting tests using nano-scale zero-valent iron (ZVI) treatment. Mr. Humphreys said that the location of the test was moved from the Seaplane Lagoon to Building 163.

Mr. Humphreys noted that correspondence item 1 is the DTSC comment letter on the federal transfer parcel. Mr. Humphreys itemized some of the DTSC comments.

1. The impact of the Veterans Administrative (VA) facility on the least tern habitat.
2. Whether the human health risk assessment included sensitive receptors at the VA hospital.
3. Whether proper background levels were used.
4. Whether the site was properly surveyed for wetland indicators.
5. Whether the panhandle section of the federal transfer parcel that lies between Site 1 and Site 2 had been surveyed for radioactive impact of soil.

Mr. Brooks reviewed the action items:

Action Item 1: Mr. Brooks consulted with the Navy Radiological Affairs Support Office (RASO) and found that radium salts were usually used in the paints. Radium sulfate was most commonly used because it was less soluble, although radium bromide and radium chloride were also used.

Action Item 2: Mr. Brooks said that the cumulative budget for the environmental cleanup is $381 million. Mr. Humphreys asked if this budget extended through the end of fiscal year 2008. Mr. Brooks responded that the budget is for fiscal year 2008 and that the fiscal year 2009 budget ($41.5 million) has not yet been fully obligated.

Mr. Brooks noted that field work is continuing over the debris piles and, as was noted at the October meeting, the Navy is excavating 15,000 cubic yards of debris, which is more than was planned originally. He said that this value will be refined as work progresses. Mr. Brooks said that Debris Pile 1 is nearly removed and work on Debris Pile 2 has started. Storm drain removal is continuing, and the water main that was broken in the area called "plane on the stick" was repaired.

III. RAB Community Co-Chair Nominations

Mrs. Sweeney nominated Mr. Hoffman for the RAB community co-chair. Mr. Hoffman declined the nomination. He said that his interest in the RAB is focused on groundwater issues, which take up most of his time, and that he is not willing to accept the added responsibility as co-chair. Mr. Hoffman nominated Mr. Humphreys for another term. Mr. Humphreys declined the nomination and requested another member of the RAB to take the responsibility, as he has been the co-chair for 3 years.

Mrs. Sweeney nominated Ms. Smith. Ms. Smith said that she represents an institutional seat and is not an Alameda community member and hence could not be the co-chair. Mrs. Sweeney said that an exception could be made in this case. Ms. Smith then accepted the nomination. Mr. Hoffman seconded the nomination. Mr. Humphreys asked Mr. Brooks whether there will be a vote for the co-chair position during the December meeting. Mr. Brooks confirmed that voting would take place at the December RAB meeting. Ms. Smith asked if nominations could be continued until December as well. Mr. Brooks responded that nominations could be continued if required.

IV. Proposed Plan for Site 30 Soil

Mr. Brooks asked Ms. Parker to start the presentation on the Installation Restoration (IR) Site 30 Soil Proposed Plan (PP) (Attachment B-2). Ms. Parker distributed the presentation handouts and explained the presentation layout; two slides per page with figures and tables printed on single pages and attached to the back of the presentation. Ms. Parker said that the public comment period for IR Site 30 PP begins on November 7, 2008 and runs through December 12, 2008. She added that the PP was sent to the RAB members in advance. Ms. Parker said that the presentation would cover the key points of the PP.

Ms. Parker explained the topics covered in this presentation on Slide 2 and the purpose of the PP on Slide 3. Slides 4 and 5 showed the overview of the site and its location. Ms. Parker outlined the background information for Site 30 on Slides 6 and 7. Ms. Parker noted that the water services to the school and the daycare facility were provided by East Bay Municipal Utility District (EBMUD).

Ms. Parker explained the past, present, and future use of the site (Slide 8). Ms. Parker said that IR Site 30 is located in the northwestern corner of the former San Francisco Bay Airdrome property, which was used for airfield operations from 1929 to 1941. Ms. Parker said that the planned future use of the site is the same as the current use, for education.

Slides 9 and 10 summarize previous soil investigations and the removal action conducted at Site 30. Ms. Parker said that new surfaces (such as concrete and synthetic turf) were installed in the school and the daycare area during the Time-Critical Removal Action (TCRA). Ms. Parker said that polychlorinated biphenyls (PCBs) were located only at one area in the site. Mr. Torrey asked whether the soil was removed during or after the school was in session. Ms. Parker replied that the soil was removed in November 2004, but she was not sure of the working hours. Ms. Cook said that the soil was removed during weekends.

Mr. Humphreys commented that artificial turf is being used in San Francisco and there are concerns about polynuclear aromatic hydrocarbons (PAHs) and lead. The PAHs come from the crushed rubber that is the base of the artificial turf and the lead is a component in the green paint. Mr. Humphreys said that this issue might need to be considered at Site 30. Ms. Parker said that EPA provided oversight on this issue, but she is not sure whether the materials placed at Site 30 had been tested. Ms. Cook said that little synthetic turf was used in the school or day care play areas; hence, there would not be PAH and lead issues at this site. She said that concrete and soil removal was used for the majority of surfaces because synthetic turf is expensive. Ms. Cook also noted that the school requested that the Navy cover 50 percent of the play area with concrete to reduce use of the soil by the cat population there.

Ms. Lipow said that the people in Kollman Circle (which is opposite to the school) were evacuated and a number of students lived there. Ms. Cook said that the residents of Kollman Circle and North Housing Area chose to move out of the area during the soil removal action conducted in 2002 and 2003 because of the dust and concerns about the safety of children near heavy equipment. She noted that the soil removal action in the residential area was separate

from the school area TCRA. Ms. Lipow said that students had a perception that they had to leave because the soil there was contaminated. Ms. Cook said that this statement was true in a broad sense, as the removal action was undertaken because of contamination in the soil. She added that the soil was excavated down to the building foundations and up to the front of houses; people were moved because of the inconvenience. Ms. Cook said that they moved, however, only for a few weeks. Ms. Lipow said that there also was some testing recently in Kollman Circle. Mrs. Sweeney said that the testing was associated with biosparging. Ms. Cook agreed and added that a groundwater pilot study was completed earlier this year. Ms. Lipow said that the two schools (adjacent to each other) had different landscaping. One was paved and covered with cement and the other has soil and trees. Ms. Cook noted that soil samples in the school areas were collected underneath the pavement, in bare ground, and at other grassy areas to obtain adequate samples from that area.

Slides 11 and 12 summarize the human health and ecological risk assessment evaluations. Ms. Parker said that arsenic was the primary contributor to the human health risk and the evaluation showed that arsenic was ambient or naturally occurring at the site. She noted that there was no native habitat at the site because most of the area is paved.

Ms. Parker explained the potential cancer risk for soil at Site 30 (Slide 13). The residential scenario was taken into consideration, because it includes the most conservative assumptions about exposures. As noted on Slide 13, a "child development center" exposure scenario was considered, as a child is potentially more likely to come in contact with soil. She said that the child development center was a conservative scenario for a child at the child development center or school. The occupational scenario addresses the workers at the child development center or school. Ms. Parker said that the total cancer risk was estimated after the TCRA to be representative of current conditions, as described in the earlier Slide 10. Ms. Parker noted that the cancer risk for all scenarios was within the risk management range, as shown on page 4 of the PP and Slide 13.

Mr. Humphreys asked whether the lower body weight of a child was taken into consideration when the ingestion rate was calculated and how the risk for children was calculated. Ms. Parker replied that the lower body weight and all standard parameters were taken into consideration for child risk. Mr. Humphreys asked how many years of exposure were assumed for a child. Ms. Parker responded that children residents, combined with adults, had a total exposure of 30 years for the residential scenario, but she was not sure of the exposure time for the child development center scenario. After the RAB meeting, Ms. Parker checked the risk assessment details, and the risk assessment for the child at the child development center assumed 6 years of exposure. Mr. Humphreys asked whether the Navy considered the risk on a fetus for pregnant mothers at the Island High School. Mr. Knoth added that the school has a "Cal-Safe" program for teen mothers. Ms. Parker said that a detailed risk assessment for a fetus was not conducted, but exposure is unlikely as the surfaces currently are covered. Ms. Parker said that the risk assessment used conservative assumptions, and she did not believe that risk from such a scenario would be a problem. After the RAB meeting, Ms. Parker checked on how the IR Site 30 risk assessment applies to pregnant women. Ms. Parker notes that although the IR Site 30 risk assessment did not provide a separate scenario for pregnant women, the IR Site 30 risk

assessment addressed this through its toxicity data for sensitive populations, including pregnant women; therefore, IR Site 30 is safe for pregnant women.

Mrs. Sweeney asked where the airdrome was located within Site 30. Ms. Parker clarified that Site 30 was located in the northwest corner of the airdrome property. Mrs. Sweeney asked if samples were collected beneath the pavement/concrete at the Island High School. Ms. Parker said yes, and that a total of over 400 samples were evaluated, including sampling during the remedial investigation and the environmental baseline survey (EBS) investigation. Ms. Parker noted that samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, PCBs, and metals.

V. RAB Technical Subcommittee Meeting Report

Mr. Brooks said that the RAB members who choose to be on the technical subcommittee would need to elect a technical subcommittee chair. He said that he would give an update as the technical subcommittee did not have a chair.

Mr. Brooks said that the technical subcommittee meeting was held before the current RAB meeting from 5:30 p.m. to 6:30 p.m. The topic was proposed data gap and pre-design sampling and analyses for Site 1. The Navy's contractor (AMEC) provided maps that detailed the proposed sampling to collect additional information about the landfill. The discussion included hand auger borings at Area 5 - beach area and borings in Area 1b – burn area to locate the depth of the waste, which would lead to a better understanding of how to excavate the waste. It also included borings for geotechnical analysis for seismic stability and trenches. Mr. Brooks said that the turnout for the technical subcommittee meeting was large and suggested that the time for the meeting could be changed to make it convenient for all to attend.

Mr. Brooks said that he would distribute his notes from the meeting to the RAB and that the notes also would be included in the RAB meeting minutes. Mrs. Sweeney requested that the maps from the technical subcommittee meeting also be entered into the minutes. Mr. Brooks agreed.

Mr. Brooks asked the RAB members to discuss their availability for the next technical subcommittee meeting and also to comment on the subject of discussion. Mr. Brooks suggested some topics including OU-5 groundwater, Site 2 FS, OU-2A and OU-2B data gap sampling, and OU-2C. He also welcomed any other subjects that the RAB would want to cover. Mr. Humphreys said that these subjects would be suitable for a regular RAB meeting rather than a technical subcommittee meeting. Mr. Brooks said that these subjects could be covered in both the meetings if necessary.

It was decided that the technical subcommittee meeting would be held at 6:30 p.m. on the third Thursday of the month starting in January 2009. It was also decided that the subject of discussion would be nano-scale ZVI technology for the oil-water separator at OU-2B and data gap sampling at OU-2A and OU-2B.

VI. BCT Update and EnviroStor Presentation

Mr. Brooks asked Ms. Lofstrom to provide the Base Realignment and Closure Cleanup Team (BCT) update and provide information on EnviroStor. Ms. Lofstrom said that the Site 30 PP and Site 1 Remedial Design (RD) were discussed at the BCT meeting held on October 14, 2008.

Ms. Lofstrom started her presentation on EnviroStor (Attachment B-3). Slide 1 showed the web address (www.envirostor.dtsc.ca.gov) for the EnviroStor site, and the EnviroStor home page is shown on Slide 2. Ms. Lofstrom provided directions to retrieve and view reports from the website. She noted that for Alameda Point, "Alameda" needs to be entered for both city and county name (see Slides 2 and 3). She said that the check boxes to include "Cleanup Sites" or "Hazardous Waste Facilities" are marked in default and could be used to refine the search. After the necessary information is provided, the "Get Report" button is used (see Slide 4) to obtain the project search result. The project search result page is shown on Slide 5. For Alameda Point documents, select "Alameda NAS" (first record of project search results) and click on the "report" button on the left of the item line. The Alameda NAS page is shown on Slide 6.

The bottom of the Alameda NAS page will list the currently scheduled activities, future activities, and completed activities (Slide 7). The currently scheduled activities run through June 30, 2009, because the timeline follows the state fiscal year. The 31-Marina Village Record of Decision (ROD) and the 20-Oakland Inner Harbor ROD are listed in current activities because the Navy is finalizing the ROD along with the signature page from the regulators. Once the Navy submits the final ROD, it will be uploaded and accessible as a complete document. Ms. Lofstrom said that the future activities are planned after June 2009.

Slide 8 shows the completed activities for Alameda NAS. Ms. Lofstrom noted that only final documents and documents from the last few years can be found at EnviroStor. To see the document, click "view documents" next to the area name. Slide 9 shows how the documents are split into sections for faster downloading. Mr. Lofstrom noted that the main text of the document is always in one single file. She said that files can be downloaded into personal computers for review later.

Mr. Peterson asked what information would be seen when a link is opened for a currently scheduled document. Ms. Lofstrom said that the link would bring up the basic description of the document and in addition, it will refer to some key related documents. Ms. Lofstrom said that it will become easier to find documents at EnviroStor after a person uses it a few times. She added that not all the current and future activities include descriptions because DTSC has only a few staff to maintain and constantly update the database. Ms. Lofstrom requested any suggestions or comments to be directed to her. Her phone number and e-mail address are listed on the EnviroStor website. Mr. Peterson suggested that the webpage should provide all the information about a particular site that is of interest to a person. Ms. Smith added that EnviroStor is hard to use because all the documents from one site are not listed together and hence finding documents can be difficult. Ms. Lofstrom said that documents could be sorted by sites if "Area Name" is clicked.

Dr. Russell said that the Site 30 PP can be uploaded on EnviroStor because it is final. Ms. Lofstrom said that it will be uploaded when the Navy sends the final document. Mrs. Sweeney asked how the Site 30 PP could be final without considering the public comments. Dr. Russell responded that the public comments will be included in the ROD and not the PP.

Mr. Simpson noted that the community involvement (Slide 6) button stores documents that involve the public, such as fact sheets and public notices or work notices. Ms. Lofstrom clarified that documents for Alameda Point community involvement were not currently uploaded under community involvement for Alameda Point. Mrs. Sweeney asked if the older documents will be archived to an on-line library. Ms. Lofstrom said that the Navy is scanning the old documents into a read-only format. Ms. Lofstrom asked Mr. Brooks about Navy progress in that process. Mr. Brooks replied that the Navy has some administrative records in pdf format and is trying to obtain more electronic copies of the completed work. Ms. Lofstrom said that her goal is to eventually have an on-line library.

Ms. Lofstrom suggested to the RAB that all documents be requested in compact disk (CD) format, as it was inexpensive compared with paper documents. Ms. Lofstrom said that new pdf documents from the Navy include hyperlinks to the figures, tables, and appendices and hence are easier to review.

VII. Community and RAB Comment Period

Mr. Brooks said that there will be community co-chair elections at the next RAB meeting. He noted that the Navy also will provide an update and briefing on the work completed during this year.

Mr. Smith asked for an update on the Navy's meeting with SunCal. Mr. Brooks requested that Dr. Russell provide an update. Dr. Russell said that SunCal met with the Navy and the regulators on October 14, 2008, to discuss the master development plan. He said that some of the development plans that involved changing land use were discussed. For example, the western 200-foot area at IR Site 5 is being considered for residential use, while the Navy's cleanup plans are for commercial use. The VOCs in the groundwater are an issue along with vapor intrusion; hence, SunCal was interested in the actions from the Navy and regulators to possibly include land-use restrictions. Dr. Russell noted that no decision was made in the meeting. Mr. Brooks said that the draft plan could be found on the SunCal website. Dr. Russell added that the document is called *Supplementary Developmental Plan* and a link to the document can be found at the City of Alameda website.

Mr. Hoffman asked whether the Navy received the data results on Site 26. Mr. Brooks responded that some monitoring data were received and showed a decrease in the contamination. Mr. Brooks added that he would ask Ms. Heather Wochnick (Navy) to provide him with more information and then he will forward the data to the RAB.

Mrs. Sweeney asked if the pilot test at Kollman Circle was completed. Mr. Brooks noted that the pilot work there was successfully completed. A larger full-scale design along with constant monitoring of the plume is planned. Mr. Humphreys said that from the figures of OU-5 (Final Remedial Design/ Remedial Action Work Plan), the south area showed a possibility of high concentrations of soil gas and asked if the Navy was proposing groundwater treatment further south of the site. Mr. Brooks replied that he did not have the details and the topic would be discussed during the January 2009 RAB meeting. Ms. Parker said that detailed groundwater sampling was conducted at the southern boundary of the site and yielded a great deal of data. Mr. Humphreys asked if the data were included in the report. Ms. Parker confirmed that the data were in the Final Remedial Design.

Mr. Humphreys noted that a TCRA report on the firing range berm and radium disposal pit was scheduled to be submitted at the end of October 2008 and asked for an update on the report. Mr. Robinson said that the comments from reviews are being incorporated into the document. He noted that a new pre-draft will be sent as the document was not accepted as the pre-draft.

Mr. Humphreys asked Dr. Russell why the RAB did not receive a copy of the city's comment letter to the Navy. Dr. Russell responded that the city's last letter on Site 1 was copied to the RAB. He added that he will look into this issue and send the letter to the RAB via e-mail or mail.

Mr. Humphreys noted that the city is having budget problems and is considering closing the City Hall West building. He added that a new information repository and meeting place would need to be found in that case. Mr. Brooks said that he would look into this issue.

VIII. Meeting Adjournment

The meeting was adjourned at 8:15 p.m.

Action Items

Action Items:	**Action Item Update**:
1. Mr. Brooks will research the compound of radium that is contained in paints.	1. Completed.
2. Mr. Brooks to provide a cumulative budget for Alameda Point environmental cleanup.	2. Completed.
3. Question regarding depth and sub-grade volume excavated from the firing range berm and radiological survey of berm material (Question 5 of the August list).	3. Pending.

4. Approval of October RAB Meeting Minutes. 5. Request for Presentations: • OU-5/FISCA IR02 groundwater cleanup • Site 2 FS • Data gap sampling results of OU- 2A and OU- 2B • OU-2C	4. New. 5. Ongoing

ATTACHMENT A

NAVAL AIR STATION ALAMEDA
RESTORATION ADVISORY BOARD MEETING AGENDA

November 6, 2008

(1 page)

RESTORATION ADVISORY BOARD

NAVAL AIR STATION, ALAMEDA

AGENDA

NOVEMBER 6, 2008, 6:30 PM

ALAMEDA POINT – BUILDING 1 – SUITE 140
COMMUNITY CONFERENCE ROOM
(FROM PARKING LOT ON W MIDWAY AVE, ENTER THROUGH MIDDLE WING)

TIME	SUBJECT	PRESENTER
6:30 - 6:45	Approval of Minutes	Mr. George Humphreys
6:45 - 7:00	Co-Chair Announcements	Co-Chairs
7:00 – 7:15	RAB Community Co-chair Nominations	RAB Members
7:15 – 7:50	Proposed Plan – Site 30 Soil	Ms. Mary Parker
7:50 – 7:55	RAB Technical Subcommittee Meeting Report	Subcommittee Chair
7:55 – 8:15	BCT Update and EnviroStor Presentation	Ms. Dot Lofstrom
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

B-1 List of Reports and Correspondence Received During October 2008. Distributed by Mr. George Humphreys, RAB Community Co-Chair (2 pages)

B-2 Proposed Plan for IR Site 30 (Island High School and Woodstock Child Developmental Center) Soil, Alameda Point. Distributed by Ms. Mary Parker, Navy Project Manager (8 pages)

B-3 EnviroStor - The DTSC Database. Provided by Ms. Dot Lofstrom, DTSC (5 pages)

ATTACHMENT B-1

LIST OF REPORTS AND CORRESPONDENCE RECEIVED DURING OCTOBER 2008

(2 pages)

Restoration Advisory Board
Documents and Correspondence
Received during October 2008

Documents

1. October 1, 2008 (received Oct. 3, 2008), "Draft Workplan for Closure of Aboveground Storage Tanks, Alameda Point, Alameda, California", prepared by Tetra Tech for BRAC Program Management Office West.
2. October 6, 2008 (received Oct. 7, 2008), "Final, Remedial Design/Remedial Action Work Plan, Operable Unit 5/IR-02 Groundwater", cover, spine insert, CD, and replacement pages for Appendix O, Land Use Control Remedial Design, prepared by Tetra Tech EC, Inc. for BRAC Program Management Office West.
3. October 2008 (received Oct. 20, 2008), "Fact Sheet, Remedial Action at OU-5/IR-02, Former Naval Air Station Alameda and FISCA", prepared by Tetra Tech EMI. for BRAC Program Management Office West.
4. October 2008 (received Oct. 22, 2008), "Final, Remedial Design/Remedial Action Work Plan, Installation Restoration Site 26, Alameda Point, Alameda, California", prepared by Battelle Columbus and Innovative Technical Solutions, Inc. for BRAC Program Management Office West.
5. August 2008 (received Oct. 22, 2008), "Final ISCO Pilot Test Data Evaluation, Appendix K of Final IR 26 Remedial Action Workplan", prepared by Innovative Technical Solutions, Inc. for BRAC Program Management Office West.
6. October 22, 2008(received Oct. 23, 2008), "Final, Feasibility Study Report, Site 2, West Beach Landfill and Wetlands, Alameda Point, California", cover, spine insert, title page and revised Section 2.0 Site Setting and Description, prepared by Battelle, Columbus and BBL for BRAC Program Management Office West.
7. October 24, 2008 (received Oct. 27, 2008), "Draft Work Plan for Removing Oil/Water Separator 163 and Conducting a Zero-Valent Iron Treatability Study at OU-2B", prepared by Tetra Tech EC Inc. for BRAC Program Management Office West.
8. October 30, 2008 (received Oct. 31, 2008), "Proposed Plan for Installation Restoration Site 30 Soil, Former NAS Alameda", prepared by BRAC Program Management Office West.

Correspondence

1. October 7, 2008 (received Oct. 8, 2008), "Review of Draft Site Inspection Report, Transfer Parcels FED-1A, FED 2-B, and FED-2C, Alameda Point, Alameda, California", letter from Ms. Dot Lofstrom, P. G., DTSC to Mr. George Patrick Brooks, BRAC Program Management Office West.
2. October 8, 2008 (received October 11, 2008), "Comments on Draft Petroleum Corrective Action Area 4C, Alameda Point, Alameda, California", letter from Mr. John P. West, S. F. Regional Water Quality Control Board to Mr. George Patrick Brooks BRAC Program Management Office West.

3. October 8, 2008 (received Oct. 15, 2008), "Review of the Final Feasibility Study for IR Site 24, Alameda Point, Alameda, California", letter from Ms. Xuan-Mai Tran, U. S. EPA, Region IX, to Mr. George Patrick Brooks, BRAC Program Management Office West.
4. October 28, 2008 (received Oct. 29, 2008), "Review of Preliminary Remedial Design and Draft Remedial Action Workplan for OU-1, Alameda Point, Alameda, California", letter from Ms. Dot Lofstrom, P. G., DTSC to Mr. George Patrick Brooks BRAC Program Management Office West.

ATTACHMENT B-2

PROPOSED PLAN FOR IR SITE 30 SOIL

(8 pages)

Proposed Plan for Installation Restoration Site 30 - Island High School and Woodstock Child Development Center Alameda Point

RAB Meeting
November 6, 2008

Mary Parker
Navy Project Manager

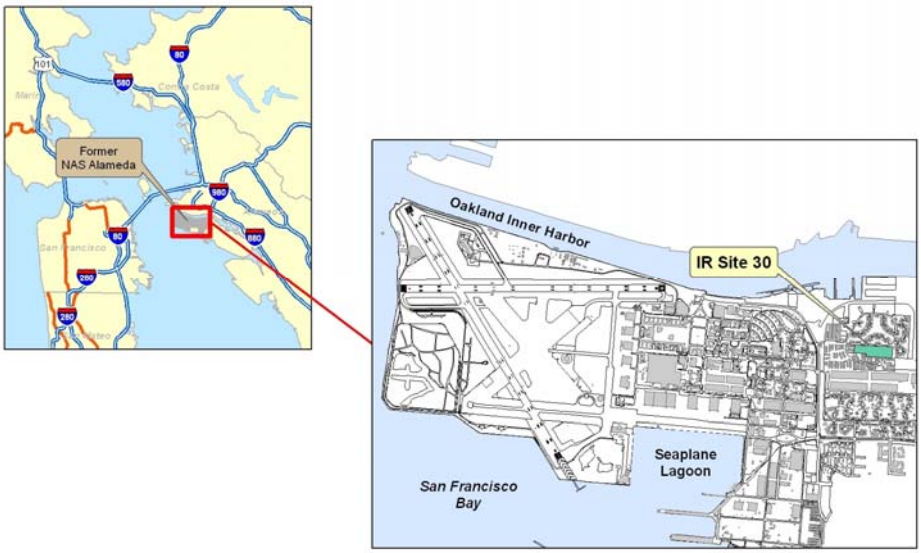
Topics

- Purpose
- Background Information
- Past, Present, and Future Uses
- Soil Investigation and Removal Action
- Human Health and Ecological Risk Assessments
- Navy's Recommendation
- Community Involvement

Purpose

- Summarize investigations and risk assessments
- Present the Navy's recommendation
- Provide an opportunity for the public to provide input
- Inform the public that the federal and state regulatory agencies are working with the Navy and agree with the Navy's recommendation

Alameda Point



Site 30 Location Map

Background Information for Site 30

- 6.6-acre site
- Currently occupied by:
  - Woodstock Child Development Center and
  - Island High School (formerly the George P. Miller Elementary School)
- Water services to the school and daycare center provided by the East Bay Municipal Utility District (EBMUD)

Background Information for Site 30 - Groundwater

- Groundwater underlying the site is part of the Operable Unit 5/IR-02 benzene and naphthalene plume and is being cleaned up separately
- Groundwater beneath Site 30 is not used for drinking water.

Site 30 – Past, Present, and Future Uses

- Located in northwestern portion of former San Francisco Bay Airdrome property; airfield operational from 1929 to 1941
- By 1947, site used for housing
- By 1959, site paved and used for storage
- In 1975, school constructed
- In 1985, child development center built
- Planned future use is the same as the current use

Site 30 Soil Investigation and Removal Action

- Numerous investigations conducted at Site 30 between 1989 and 2004
- As a protective measure, the Navy conducted a time-critical removal action (TCRA) in November 2004 based on results of soil sampling for polycyclic aromatic hydrocarbons (PAHs) conducted in 2003
- During the TCRA, new surfaces (for example, synthetic turf and concrete) were installed and some soil was removed to protect the children

Site 30 Soil Investigation and Removal Action

- TCRA soil removal included one area where polychlorinated biphenyls (PCBs) were detected; PAHs and metals in the soil also were removed.
- RI concluded the soil at Site 30 does not present an unacceptable risk to human health or the environment under the current or future conditions

Site 30 Human Health Risk Assessment

- Soil exposure pathways for humans –
  - Direct contact with soil
  - Consumption of homegrown produce
  - Inhalation of vapors in indoor air from volatile chemicals in soil and groundwater
- The risk assessment conservatively assumed the entire site was unpaved, to ensure risk was not underestimated
- Arsenic was the risk driver
- Evaluations showed that arsenic is ambient (naturally-occurring)

Site 30 Human Health and Ecological Risk Assessments

- Groundwater beneath Site 30 is not being used; EBMUD provides the water service
- Groundwater underlying the site is part of the Operable Unit 5/IR-02 benzene and naphthalene plume and is being cleaned up separately
- Current conditions at the site are protective for adults and children
- Ecological receptors – birds and small mammals; no native habitat present at site
- No unacceptable risk to ecological or human receptors

Potential Cancer Risk for Soil at Site 30

Estimated Cancer Risk for Soil		
Current and Future Exposure Scenarios	**Total Cancer Risk**	**Cancer Risk without Arsenic***
RESIDENTIAL	1×10^{-4}	4×10^{-5}
CHILD DEVELOPMENT CENTER	4×10^{-5}	8×10^{-6}
OCCUPATIONAL	1×10^{-5}	6×10^{-6}
CONSTRUCTION WORKER	2×10^{-6}	1×10^{-6}

* Arsenic is naturally occurring.
Cancer Risk includes potential risk from inhalation of vapors in indoor air from volatile chemicals in groundwater, as well as soil.

Site 30 Soil – Navy's Recommendation

- Results of risk assessments show that site conditions are protective of human health and the environment
- Based on risk assessment results, No Further Action is recommended for soil at Site 30
- Regulatory agencies concur with this recommendation
  - U.S. EPA
  - California Department of Toxic Substances Control
  - California Regional Water Quality Control Board
- No land-use restrictions, environmental monitoring, or other cleanup actions are required for soil at Site 30

Community Involvement

- RAB Meeting: November 6, 2008
- Public Meeting: November 19, 2008
- Public Review Period:
  November 7 – December 12, 2008
- Monthly RAB meetings first Thursday of each month
- Information Repository: Alameda Point – 950 West Mall Square, Building 1, Room 240

Questions

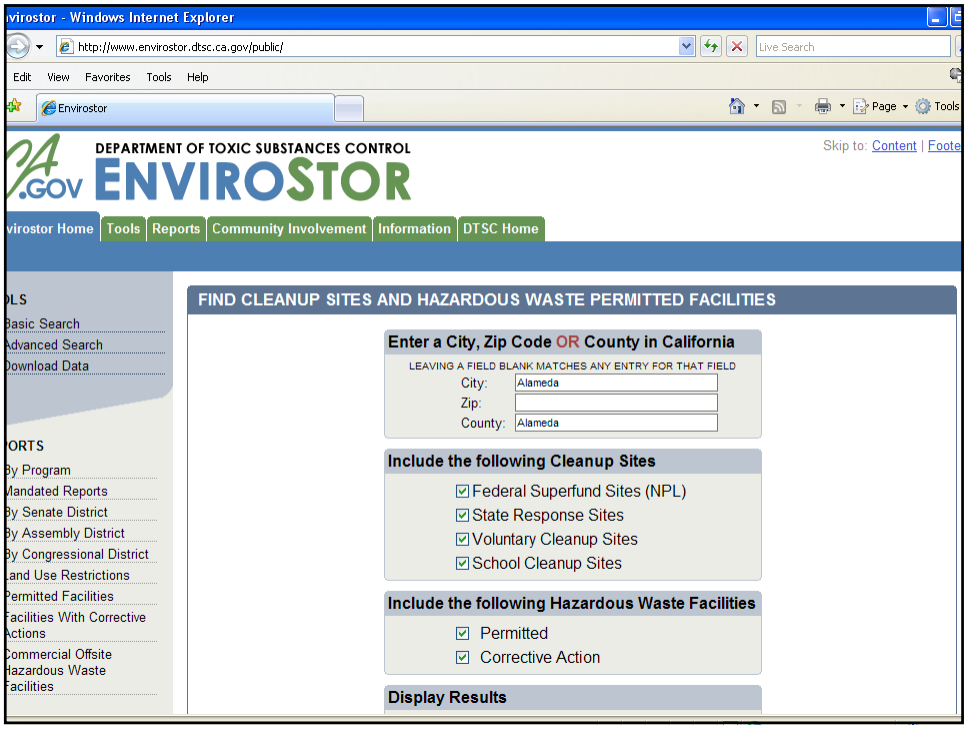
ATTACHMENT B-3

ENVIROSTOR – THE DTSC DATABASE

(5 pages)

Envirostor – the DTSC Database

www.envirostor.dtsc.ca.gov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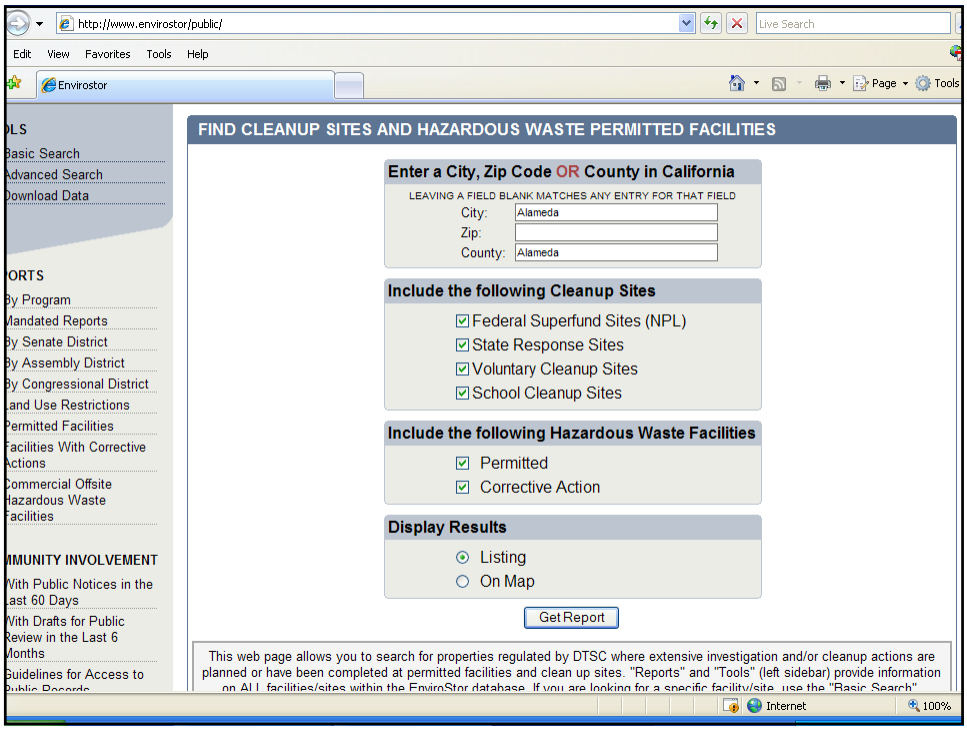
DTSC Home
FIND CLEANUP SITES AND HAZARDOUS WASTE PERMITTED FACILITIES
Enter a City, Zip Code OR County in California
LEAVING A FIELD BLANK MATCHES ANY ENTRY FOR THAT FIELD
City: Alameda
Zip:
County: Alameda
Include the following Cleanup Sites
Federal Superfund Sites (NPL)
State Response Sites
Voluntary Cleanup Sites
School Cleanup Sites
Include the following Hazardous Waste Facilities
Permitted
Corrective Action
Display Results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Include the following Cleanup Sites
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Include the following Hazardous Waste Facilities
Permitted
Corrective Action
Display Results
Listing
On Map
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This web page allows you to search for properties regulated by DTSC where extensive investigation and/or cleanup actions are planned or have been completed at permitted facilities and clean up sites. "Reports" and "Tools" (left sidebar) provide information

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PROJECT SEARCH RESULTS

CLEANUP STATUS: All Statuses

SEARCH CRITERIA: ALAMEDA, ALAMEDA, FEDERAL SUPERFUND SITES (NPL), STATE RESPONSE SITES, VOLUNTARY CLEANUP SITES, SCHOOL CLEANUP SITES, PERMITTED SITES, CORRECTIVE ACTION SITES

10 RECORDS FOUND — EXPORT TO EXCEL — PAGE 1

	SITE / FACILITY NAME	SITE / FACILITY TYPE	CLEANUP STATUS	ADDRESS DESCRIPTION	CITY	ZIP	COUNTY
[REPORT] [MAP]	ALAMEDA NAS	FEDERAL SUPERFUND LISTED	ACTIVE	2,616 ACRES IN ALAMEDA, CALIFORNIA	ALAMEDA	94501	ALAMED
[REPORT] [MAP]	ALAMEDA NAVAL AIR STATION EAST HOUSING	STATE RESPONSE	CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS	950 W. MALL SQUARE	ALAMEDA	94501	ALAMED
[REPORT] [MAP]	ALAMEDA NAVY SUPPLY CENTER (NSC) ANNEX,	STATE RESPONSE	ACTIVE - LAND USE RESTRICTIONS	2155 MARINER SQUARE LOOP	ALAMEDA	94501	ALAMED
[REPORT] [MAP]	ALAMEDA, NAVAL AND MARINE RESERVE CENTER	STATE RESPONSE	ACTIVE	2144 CLEMENT AVENUE	ALAMEDA	94501	ALAMED
[REPORT] [MAP]	COLLINS PROPERTY	VOLUNTARY CLEANUP	CERTIFIED	2235 CLEMENT AVENUE	ALAMEDA	94501	ALAMED
[REPORT] [MAP]	FISCA WESTERN ONE-THIRD OF IR02	STATE RESPONSE	ACTIVE	410 STARGELL AVENUE	ALAMEDA	94501	ALAMED
[REPORT] [MAP]	FORMER J. H. BAXTER FACILITY, ALAMEDA	STATE RESPONSE	ACTIVE	2201 CLEMENT AVENUE	ALAMEDA	94501	ALAMED
[REPORT] [MAP]	NAVY BRAC PMO.W ALAMEDA PT.	HAZ WASTE - NON-OPERATING	ACTIVE	WESY END CITY OF ALAMEDA	ALAMEDA	945010000	ALAMED
[REPORT] [MAP]	UNITED STATES COAST GUARD	STATE RESPONSE	ACTIVE	ELEVENTH COAST GUARD DISTRICT, B. 50-6	ALAMEDA	94501	ALAMED
[REPORT] [MAP]	UWS NAVY/FLEET & INDUST SUPL CTR-ALAMEDA	HAZ WASTE - NON-OPERATING	INACTIVE	2155 MARINER SQUARE LOOP	ALAMEDA	945011022	ALAMED

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LAMEDA NAS - (MAP)

16 ACRES IN ALAMEDA, CALIFORNIA
AMEDA, CA 94501
AMEDA COUNTY
E TYPE: CLOSED BASE
RES: 2634 ACRES
N: NONE SPECIFIED
TIONAL PRIORITIES LIST: YES
EANUP OVERSIGHT AGENCIES:
QCB 2 - SAN FRANCISCO BAY
SC - SITE MITIGATION AND BROWNFIELD REUSE PROGRAM
EPA - LEAD

PROJECT MANAGER: DOT LOFSTROM
SUPERVISOR: CHARLES RIDENOUR
OFFICE: SACRAMENTO
ENVIROSTOR ID: 01970005
SITE CODE: 201209
ASSEMBLY DISTRICT: 16
SENATE DISTRICT: 09
SPECIAL PROGRAM:
FUNDING: BRAC 93
PUBLIC PARTICIPATION SPECIALIST: MARCUS SIMPSON
PRESS CONTACT: CLAUDIA LOOMIS

COMMUNITY INVOLVEMENT

leanup Status

CTIVE AS OF 5/1/1986

egulatory Profile

VIEW DETAILED AREA / SUB-AREA REPORT

AST USE(S) THAT CAUSED CONTAMINATION
RCRAFT MAINTENANCE, AIRFIELD OPERATIONS, DEGREASING FACILITY, DRY CLEANING, ENGINE TESTING/REPAIR, EQUIPMENT/INSTRUMENT REPAIR, FIRE TRAINING AREAS, RING RANGE - SMALL ARMS ETC..., FUEL - AIRCRAFT STORAGE/ REFUELING, FUEL - VEHICLE STORAGE/ REFUELING, FUEL HYDRANT PUMPING STATIONS, JET FUEL TORAGE/REFUELING, LANDFILL - DOMESTIC, LANDFILL - HAZARDOUS WASTE, MACHINE SHOP, METAL PLATING - CHROME, METAL PLATING - OTHER, OIL/WATER SEPARATORS, PEN BURN/OPEN DETONATION, PAINT/DEPAINT FACILITY, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE, SAND BLASTING, SHIPYARD - SHIP BUILDING/REPAIR, WAREHOUSING, EHICLE MAINTENANCE, WASTE - INDUSTRIAL TREATMENT FACILITY, WASTE - INDUSTRIAL WASTE LINE, WASTE - SEWAGE TREATMENT PLANT

OTENTIAL CONTAMINANTS OF CONCERN
ELDRIN
OXIN (AS 2,3,7,8-TCDD TEQ)

POTENTIAL MEDIA AFFECTED
SURFACE WATER AFFECTED, OTHER GROUNDWATER AFFECTED (USES OTHER THAN DRINKING WATER), SOIL, SEDIMENTS, INDOOR AIR, SOIL VAPOR

Internet 100%

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The primary contamination at Alameda Point consists of several plumes of chlorinated solvents, roughly grouped together as "OU-2." A second plume, known as the Benzene/Napthalene plume (or, OU-5) straddles Alameda Point and the nearby adjacent Fleet and Industrial Supply Center-Alameda. Polycyclic aromatic hydrocarbons (PAHs) are ubiquitous throughout the Base, as a result of the creation of the base from dredged fill in the mid twentieth century. Concentrations of PAHs are more problematic in certain areas, and there is a direct correlation between the timing/source of the fill and the concentration of PAHs.

Currently Scheduled Activities Through 6/30/2009

AREA NAME	SUB-AREA	DOCUMENT TYPE	DUE DATE	REVISED DATE
OU-4A Site 2 Landfill	2 - Landfill	Feasibility Study Report	11/24/2008	
OU-4B	17-Seaplane Lagoon	Removal Action Workplan	11/26/2008	
	31 - Marina Village	Record of Decision	11/26/2008	
OU-4B	17-Seaplane Lagoon	Remedial Design	11/30/2008	
OU-4C	20 - Oakland Inner Harbor	Record of Decision	12/20/2008	
OU-1	14 - Former Fire Training Area	Remedial Design	12/22/2008	
OU-5		Remedial Design	12/24/2008	
PA/SI Sites	FED-1A	Site Inspection Report	1/14/2009	
OU-3 Site 1 Landfill	1- Landfill	Record of Decision	1/27/2009	
	30 - Miller School and Woodstock Child Development Center	Proposed Plan	2/22/2009	
OU-5	25 - Estuary Park and Coast Guard Housing	Enforcement & Implementation Plan	3/3/2009	
BASEWIDE	Basewide Groundwater Monitoring	Operations and Maintenance Plan	3/27/2009	
OU-2A		Feasibility Study Report	3/31/2009	
OU-6	28 - Todd Shipyard	Remedial Design	4/4/2009	
OU-4B	17-Seaplane Lagoon	Remedial Design	4/17/2009	
OU-1		Remedial Design	5/16/2009	
OU-3 Site 1 Landfill	1- Landfill	Removal Action Completion Report	5/21/2009	
OU-6	27 - Dock Zone	Remedial Design	6/7/2009	
	35	Record of Decision	6/14/2009	
OU-3 Site 1 Landfill	1- Landfill	Remedial Design	6/29/2009	

Future Activities

NOTE: THE DUE DATES OF FUTURE ACTIVITIES ARE SUBJECT TO CHANGE BASED ON THE PROGRESS OF CURRENTLY SCHEDULED ACTIVITIES

AREA NAME	SUB-AREA	DOCUMENT TYPE	DUE DATE
OU-4A Site 2 Landfill	2 - Landfill	Proposed Plan	2009
OU-4B	24 - Pier Area	Proposed Plan	2009
OU-3 Site 1 Landfill	1- Landfill	Remedial Design	2009
OU-2B		Feasibility Study Report	2009
OU-2C		Feasibility Study Report	2009
	30 - Miller School and Woodstock Child Development Center	Record of Decision	2009
	34 - Naval Air Rework Facility	Feasibility Study Report	2009
OU-2C	5 - Aircraft Rework Facility	Removal Action Completion Report	2009

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OU-2C	Remedial Action Completion Report	2014
OU-2B	Remedial Action Completion Report	2014
OU-2C	Operations and Maintenance Plan	2014
OU-2A	Remedial Action Completion Report	2014

Completed Activities

	AREA NAME	SUB-AREA	DOCUMENT TYPE	DATE COMPLETED	COMMENTS
[VIEW DOCS]	OU-4B	24 - Pier Area	Feasibility Study Report	10/20/2008	
[VIEW DOCS]	OU-2C		Remedial Investigation Report	10/20/2008	
[VIEW DOCS]	OU-2C		Removal Action Design	8/13/2008	The Draft Project Workplan is a Time-critical removal work plan that describes the activities pertaining to the removal of storm drain and sewer lines in and around Building 5 and 400, located at IT sites 5 and 10 (OU-2C). The objectives of the TCRA are to physically remove and dispose of radioactive contaminants in excess of 1 picocurie per gram of radium-226 above background levels, thus preventing potential migration of contaminated material within or outside of the storm drain and sewer systems.
[VIEW DOCS]		30 - Miller School and Woodstock Child Development Center	Remedial Investigation / Feasibility Study	7/23/2008	
[VIEW DOCS]		35	Proposed Plan	6/27/2008	
[VIEW DOCS]	OU-2C		Action Memorandum (if <$1M)	6/27/2008	
[VIEW DOCS]	OU-2A	13 - Former Oil Refinery	Remedial Investigation Report	6/23/2008	
[VIEW DOCS]	OU-3 Site 1 Landfill	1- Landfill	Summary of Findings of Exploratory Trenches	6/23/2008	
[VIEW DOCS]		34 - Naval Air Rework Facility	Remedial Investigation Report	6/23/2008	Site 34 was a Naval Air Rework Facility used to maintain base equipment such as scaffolding and other apparatus. The site was used primarily for painting services, storage, wood and metal shop activities, and sandblasting activities. Site 34 is considered part of the Northwest Territories, which are designated as Public Open Space and Parks. Additionally, Site 34 is part of the tideland trust area that is subject to limitations specified in the Coastal Zone Management Act, including a restriction on residential use. The Remedial Investigation Report describe the results of soil and groundwater analyses. Samples were analyzed for metals, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polycyclic aromatic hydrocarbons (PAHs), pesticides, polychlorinated biphenyls (PCBs), and total petroleum hydrocarbons (TPH). A baseline Human Health Risk Assessment and a Screening-level Ecological Risk Assessment were completed for this site. Based on the risk assessments, five areas of concern were recommended to be considered in a Feasibility Study. Primary contaminants of concern include arsenic, lead, iron, PCBs, TPH, naphthalene, pesticides and (in one area only) VOCs. Additional sampling will be completed in the vicinity of DP02, DP 16 and Building 331.
	BASEWIDE	Basewide Groundwater Monitoring	Operations and Maintenance Plan	4/9/2008	DTSC provided verbal concurrence with the Final Basewide Groundwater Monitoring Report.
[VIEW DOCS]		31 - Marina	Proposed Plan	4/2/2008	

http://www.envirostor/public/final_documents2.asp?global_id=01970005&doc_id=5010678

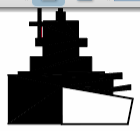
ALAMEDA NAS

TITLE: FEASIBILITY STUDY (SITE 24)
DOC TYPE: FEASIBILITY STUDY REPORT

VERSION	FILENAME	SIZE
RP - Final	Final FS for IR Site 24 - Main Text.pdf	627 KB
RP - Final	Final FS for IR Site 24 - Figures.pdf	6138 KB
RP - Final	Final FS for IR Site 24 - Tables.pdf	3062 KB
RP - Final	Final FS for IR Site 24 - Appendix A.pdf	1337 KB
RP - Final	Final FS for IR Site 24 - Appendix B.pdf	518 KB
RP - Final	Final FS for IR Site 24 - Appendix C.pdf	272 KB
RP - Final	Final FS for IR Site 24 - Attachment A.pdf	2133 KB
RP - Final	Final FS for IR Site 24 - Attachment B.pdf	659 KB
Final DTSC Letter	Site 24 FS.pdf	12 KB

http://www.envirostor.dtsc.ca.gov/regulators/deliverable_documents/2756131827/Final%20FS%...

NAVY
CLEAN 3
PROGRAM



FINAL
FEASIBILITY STUDY REPORT
IR SITE 24
ALAMEDA POINT
ALAMEDA, CALIFORNIA

September 2008

Contract No. N68711-95-D-7526
CTO-0087
BEI-7526-0087-0048.R1

Submitted to:

Department of the Navy