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

October 02, 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:	
Anna-Marie Cook	U.S Environmental Protection Agency (EPA)
Doug Delong	BRAC PMO West, Compliance Manager
Leora Feeney	Golden Gate Audubon Society/Friends of the Alameda Wildlife Refuge (FAWR)
Fred Hoffman	RAB
John Kaiser	San Francisco Regional Water Quality Control Board (Water Board)
Joan Konrad	RAB
James Leach	RAB
Dot Lofstrom	California Environmental Protection Agency (Cal/EPA) Department of Toxic Substances Control (DTSC)
Gretchen Lipow	Community member
Frank Matarrese	Alameda City Council
John McMillan	Shaw Environmental, Inc.
Peter Russell	Russell Resources/Alameda Reuse and Redevelopment Authority (ARRA)
Marcus Simpson	DTSC Public Participation Specialist
Christy Smith	U.S. Fish and Wildlife Service (USFWS)

Dale Smith	RAB
Radhika Sreenivasan	St. George Chadux Corp.
Jim Sweeney	RAB
Jean Sweeney	RAB
Michael John Torrey	RAB
Xuan-Mai Tran	U.S. EPA
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 4 of 11, last paragraph, first sentence, "…monitoring wells around in situ chemical oxidation…" will be changed to "…monitoring wells at Site 26 around in situ chemical oxidation…."
- Page 6 of 11, fourth paragraph, third sentence, "Mr. Humphreys asked if the depression south of the burn area at Area 1a was a firing range pit" will be changed to, "Mr. Humphreys asked if the depression south of the firing range area at Area 1a was another waste cell."
- Page 6 of 11, fourth paragraph, fourth sentence; "He said that nothing has been excavated but it was a high radiation area" will be changed to, "Mr. Robinson said that nothing has been excavated but it was a high radiation area."
- Page 6 of 11, last paragraph; "Mr. Torrey asked what the burn area was…" should be deleted.
- Page 7 of 11, fourth paragraph, last sentence; "Mrs. Sweeney said that a wetland area would be appropriate near the beach area …." will be revised to "Mrs. Sweeney said that a wetland area would be appropriate near 1a landfill area…."
- Page 8 of 11, second paragraph, second sentence; "Mr. Humphreys stated that there will be no geofabric under…" will be revised to, "Mr. Humphreys noted from Slide 17 that there will be no geofabric under…."

- Page 8 of 11, second paragraph, after second sentence, insert the following statement; "Mr. Humphreys said that recently the Navy had stated that there would be both a rodent barrier and an HDPE membrane under the soil cover."

- Page 9 of 11, fourth paragraph, last sentence; "Mr. Humphreys noted the need to slope the layer toward the water," will be changed to, "Mr. Humphreys noted the need to extend the animal intrusion layer onto the slope at the shoreline."

- Page 10 of 11, first paragraph, before the first sentence, insert the following statement: "Mr. Humphreys asked what chemical form the radium was in, and Mr. Brooks said that he did not know."

The minutes were approved as modified.

II. Co-Chair Announcements

Mr. Humphreys noted that Mr. Kurt Peterson would not be able to attend this meeting and will join the RAB meeting next month. Ms. Joan Konrad will also be excused for this month's RAB meeting.

Mr. Humphreys had a comment on the Alameda Point RAB contact list. He updated Mr. Frank Matarrese's contact information and asked to delete the word "proposed" by his name. Ms. Smith disagreed and said that Mr. Matarrese was never formally accepted as a RAB member.

Mr. Humphreys said that during the September RAB meeting the RAB requested a presentation on the Record of Decision (ROD) for Operable Unit (OU)-5, which is the groundwater plume for Sites 25 and 31, and Fleet and Industrial Supply Center Oakland, Alameda Annex (FISCA) Site IR02. Mr. Brooks said that the OU-5 presentation would be delayed until at least November.

Mr. Brooks reminded the RAB that the community co-chair nominations are presented in November and the election is held in December.

Mr. Brooks said that the 2009 Site Management Plan (SMP) was mailed to the RAB members and that extra copies of the SMP are available for those who did not receive one (Attachment B-1). Mr. Brooks said that the SMP includes the updated project schedule listing all the sites through fiscal year 2009 (FY 2009) showing dates, ongoing activities, and a short description of each site. Mr. Brooks requested that the RAB members review the SMP and provide comments to either his attention or to Mr. Kowalczyk. Ms. Smith said that she experiences a delay in receiving mailed information from the Navy and noted that she has not received the SMP. She requested the Navy mail the information packet earlier, so that she could receive it before the RAB meeting.

Mr. Brooks said that field work under way in October, includes Corrective Action Area (CAA) 3, CAA C and ongoing work at Sites 14, 16 and 26. He noted that the debris pile removal work

at Site 17, Seaplane Lagoon, is also being conducted, but only during low tide, when the debris is most accessible.

Mrs. Sweeney said that she did not see the refrigerators previously observed in the Seaplane Lagoon area when she visited the site. Mr. Brooks said that much debris is being removed during excavation but he did not recall whether refrigerators were removed.

Mr. Brooks noted that there were no health and safety incidents during September. However, there was an incident in August in which a person sustained a fractured wrist when he fell while working on a wet concrete surface. Mr. Brooks said that accidents resulting from slips, trips, and falls are a high risk, and corrective actions have been put in place for working on wet surfaces.

Mr. Brooks said that he received a number of complaints regarding the RAB meetings. He said that time management was one issue. Some RAB meetings have been extended beyond their planned 2-hour duration. Mr. Brooks suggested that questions could be taken at the end of the presentation rather than in between slides, since one's questions are often answered later in the presentation. This would help the RAB stay on schedule. Mr. Hoffman asked when the meeting is supposed to end, and Mr. Brooks replied 8.30 p.m. Ms. Smith said that there have been days when the RAB members have stayed until 10 p.m. and added that, as volunteers, the meeting should be prolonged if it takes longer for the RAB members to understand an issue. Mr. Brooks suggested that the meetings could be broken into two meetings and indicated that he is willing and available to discuss details of any project as much as necessary. Mr. Brooks suggested a technical sub-committee is another way to keep the RAB meeting within the 2-hour schedule. It would allow the RAB to discuss more projects. Mr. Brooks said that meeting minutes would be taken at the technical sub-committee meeting to capture the RAB member's comments and the minutes would be submitted in the next RAB meeting. Mrs. Sweeney asked whether the regulators would also attend the technical sub-committee meeting. Mr. Brooks replied that the regulators could be invited to the meeting at the discretion of the subcommittee. Mr. Brooks suggested that guest experts could also be invited for the meeting when necessary. Mrs. Sweeney asked Mr. Brooks whether he would come from San Diego for the technical sub-committee meeting as well. Mr. Brooks said he enjoyed technical discussions and would attend.

Mr. Brooks added that he understands that environment cleanup and reuse are important to the community, and that there are strong feelings on the issues. He asked that the RAB maintain an atmosphere of respect for all those who attend the meeting.

Mr. Humphreys distributed his list of reports and correspondence received during September 2008 (Attachment B-2). Mr. Humphreys noted that during September he had received the largest amount of material in any given month. Mr. Humphreys said that there were three transmittals on the draft final SMP: document Item 9, document Item 15, and correspondence Item 2. Mr. Humphreys said that document Item 12, "*Draft Technical Memorandum for Data Gap sampling at OU-2A and 2B,*" contained interesting diagrams, cross-sections, plan views, and vertical sections of the plume and showed the plume passing under the seawall at the edge of the Seaplane Lagoon.

Mr. Hoffman asked whether the Navy would provide a presentation on OU-2C. Mr. Brooks responded that a presentation was not currently planned, but was possible. Mr. Hoffman said he would like to hear about the site because the OU-2C groundwater plume is important. Ms. Lofstrom said that the OU-2C RI was received 2 months ago. Ms. Lofstrom added that OU-2C contains several groundwater plumes and a presentation on it was given 2 or 3 months ago. Mr. Humphreys said that Dr. Linda Henry from Brown and Caldwell gave the presentation on OU-2C and that Dr. Henry discussed risk analysis and human health risk assessment. There was also some discussion about soil vapor modeling at Building 5. Mr. Humphreys stated that the RAB needs a presentation on the Site 2 feasibility study and the OU-2A and OU-2B data gap sampling results.

Mr. Brooks reminded the group that the FS for OU-2C is upcoming. Mr. Hoffman said that this site seems important. Ms. Cook suggested that there could be a technical sub-committee meeting on OU-2C to discuss the findings of the RI and how the results will be incorporated into the development of the FS before it is completed. Mr. Brooks said that it was a good suggestion.

Ms. Smith asked if she could obtain a copy of the final FS for Installation Restoration (IR) Site 2. Mr. Brooks said that there is a copy available for borrow in the library upstairs from the meeting room. Ms. Smith said that she does not live in Alameda; the library is closed on evenings and weekends, so she could not access the document. Mr. Brooks said that he will try to provide an extra copy of the final FS document for her. Ms. Lofstrom suggested an alternative of accessing the document from the EnviroStor database rather than from the library. Ms. Smith said that she found that in some cases the attachments or back pages are not included in the database. Ms. Smith said that if she is provided a copy of the FS she will return the document to the Navy after review. Ms. Lofstrom said EnviroStor is a good resource for accessing the smaller documents. Mr. Hoffman asked Ms. Lofstrom if she could send the link for EnviroStor to the RAB members. Ms. Lofstrom said that she would like to provide a short 15-minute presentation on EnviroStor to the RAB so members know how to use the resource. In the meantime, the link can be found through a Google search on the Internet. Ms. Lofstrom added that only final documents from the last several years can be found at EnviroStor, and that the site does not have historical documents.

III. September 10, 2008 ARRA Meeting Summary

Mr. Humphreys outlined the events that prompted his attendance at the September 10, 2008, ARRA meeting. He said that the final summary report on the exploratory trenching was issued on May 16. On May 31, the Navy hosted a field trip for the RAB members, which included Sites 1 and 2. Mr. Humphreys said that, during the tour, Mr. Brooks speculated that waste may have been removed to facilitate construction of the runway and that the waste may have been moved to Site 2. A second site tour was scheduled for July 17, 2008. On July 16, RAB members, including Mr. Humphreys, met with Dr. Russell at the Mastic Senior Center to discuss Site 1 in detail before the tour. Mr. Humphreys said that he had prepared five comment papers for the meeting; topics included the trenching report, the Site 1 Proposed Plan (PP), the proposed changes to closure strategies for Sites 1 and 2 (consisting of the Navy letter to the regulators proposing to move part of Site 1 to Site 32), the applicability of the presumptive remedy, and the

deficiencies of the proposed plan. On July 17, 2008, the RAB visited Site 1, Site 2, and the vicinity of Site 32. Mr. Humphreys said that at the August 14, 2008, RAB meeting, he presented two comment summaries he prepared based on his review of the Site 1 PP and the Site 1 trenching report. On August 22, he sent a letter to the Navy noting the transmittal of the summaries. Mr. Humphreys believes that the Navy proposed a new approach to the sites at the September RAB meeting. Mr. Humphreys provided his letter to the Navy and the two review summaries to Mr. Matarrese, who then requested that Mr. Humphreys attend an ARRA meeting and discuss the two documents. Mr. Humphreys gave a presentation similar to his RAB presentation and also mentioned the Navy's new proposed approach of cutting back the shoreline and moving the cap area further inland with the retaining wall. Based on the ARRA meeting discussion, ARRA requested its consultant, Dr. Russell, prepare an analysis of Mr. Humphrey's evaluation. Dr. Russell provided ARRA his analysis of RAB comments and a summary of the September RAB meeting on September 24, 2008. Ms. Debbie Potter (city) presented Dr. Russell's material at the ARRA meeting held October 1, 2008. Mr. Humphreys said he then presented his response to Dr. Russell's evaluation to the ARRA. Mr. Humphreys requested Dr. Russell talk about his analysis of Site 1.

Dr. Russell said that the agenda item is a discussion about the September 10, 2008, ARRA meeting and clarified that he did not personally attend this meeting. Dr. Russell said that the day after the ARRA meeting (September 11, 2008), ARRA requested he provide an evaluation of the two RAB comment letters that had been presented to the ARRA board.

Dr. Russell said that after going through the issue it became apparent to him that the landfill likely no longer exists. In reviewing the trenching report, he realized that the results from the 11 trenches showed they contained virtually no waste, which contradicts the conceptual site model, a fundamental component of the CERCLA decision-making process. Dr. Russell said, however, that he cannot conclude that there is no landfill, but there should be a presumption that the landfill is no longer present. Dr. Russell thanked the RAB members who met with him to critique a draft on his evaluation summary.

Dr. Russell said that he addressed the comments that Mr. Humphreys made on the PP and trenching report and briefly summarized how the comments were evaluated. Dr. Russell said that the RAB's comments were thorough. Many of the points made are addressed by the Navy in the preliminary remedial design, for example, the rodent barrier and improved shoreline seismic stability by excavating and backfilling a 200-foot swath along the shoreline. Dr. Russell said that the primary area where the RAB had several comments, which he does not endorse, are oriented toward excluding water from the landfill. He said there are some comments that compared and contrasted the Alameda Point landfill to the Mare Island landfill, where he does not agree. Dr. Russell provided reasoning why the Alameda Point landfill's proposed closure is different, noting the Mare Island landfill is subject to the Resource Conservation and Recovery Act (RCRA), while the Alameda Point landfill is not, and no groundwater contamination has been detected that appears to be emanating from the Alameda Point landfill, unlike at Mare Island. The Navy has documentation showing aircraft parts storage and maintenance at the primary groundwater contamination site that are consistent with the presence of solvent contamination.

Dr. Russell said that one RAB comment noted an issue with a membrane that is no longer a part of the cover design. This and other comments aimed at controlling groundwater and precipitation into the landfill are overly conservative, as groundwater contamination that appears to be emanating from the landfill has not been detected. Other comments that focus on groundwater contamination were well received. The RAB members also suggested improving notification or elaborating on the Navy's plan.

Dr. Russell said the Navy described remediation of groundwater during the September RAB meeting. Some of the features thought to be most important for treating groundwater are to establish hydraulic control of the area to ensure contaminants do not enter the Bay. This hydraulically controlled remediation could be similar to the treatment at IR Site 14.

Dr. Russell said there is a concern about whether metals or radium will be mobilized by altering the geochemical environment in the groundwater treatment zone. Therefore, before the hydraulic control is discontinued, it should be verified that there is no likelihood of migration of radium or metals as a result of the treatment, and groundwater monitoring should be conducted to confirm this. In addition, before field work begins, the remedial design should include modeling the effect the proposed treatment on the mobility of radium and metals.

On the trenching report, Dr. Russell said that the RAB comments that little waste was present and he questions the assumption that a landfill is still present. He said the facts suggest that there is no landfill. Dr. Russell said that his conclusion from the evaluation is that the CERCLA conceptual site model, which is the basis of decision making at IR Site 1, appears to be seriously flawed. As a result, Areas 1a, 2b, 5a, and 5b should be removed from the current IR Site 1 Record of Decision (ROD), as has already been done for Areas 2a, 3a, and 3b. He also suggested there should be three remedial areas that move forward as expeditiously as possible in the IR Site 1 ROD: Area 1b- burn area, the groundwater treatment, and Area 4 - firing range berm area (already cleaned up through a time-critical removal action [TCRA]). He added Areas 1a, 2b, 5a, and 5b should be handled separately from the current IR Site 1 ROD, because they would take time and this would delay groundwater treatment and excavation of the burn area, Area 1b. Dr. Russell said he thinks further investigation is needed for Area 1a to evaluate how much, if any, of the waste originally still remains and to characterize the radiological and chemical concentrations of the soil that was backfilled into the former landfill site.

Mr. Leach said the hypothesis could benefit if the material were removed from the landfill. Mr. Leach said that his concern was that there is evidence of disposal in the landfill, whereas there is little evidence that any of the material was removed. He added that he is not satisfied with the trenching and cannot conclude that there is no landfill. Mr. Leach said that if physical material that does not deteriorate was not found, then the landfill was not found. The presence of aluminum engines has been reported, and it can be assumed that soda bottles, plastic buckets, and other items would be deposited into the landfill besides the drums. Mr. Leach agreed with Dr. Russell that it is necessary to characterize the soil because the evidence of disposal would still remain even if the items had been removed. He added that the trenches should have been deeper. Mr. Leach said that there is still evidence that the landfill exists.

The ARRA will send the Navy a letter asking to delay a CERCLA decision at Areas 1a, 2b, 5a, and 5b, as they require further investigation. Mrs. Sweeney asked about the contents of the ARRA letter to the Navy. Dr. Russell replied that the ARRA's letter would evaluate the RAB report comments and focus on the flaws in the conceptual site model. He added that virtually no waste was found during the trenching and hence the presumption should be that the landfill is no longer present. Regardless of the speculation that the Navy excavated the landfill from IR Site1 and moved it to IR Site 2, the ARRA would like further investigation before a decision is made about the site.

Mr. Humphreys asked Dr. Russell whether he had a copy of the evaluation of the RAB's comment letter. Dr. Russell replied that he e-mailed it to the RAB members and sent it to Mr. Humphreys by mail. Dr. Russell noted he could e-mail another electronic copy of his evaluation, if needed.

Mr. Humphreys read his responses to Dr. Russell's evaluation of the RAB comments on IR Site 1 (Attachment B-3). Mr. Humphreys requested this handout be included with Dr. Russell's evaluation as a complete package.

IV. Fiscal Year 2008 Highlights

Mr. Brooks began the presentation on Alameda Point accomplishments (Attachment B-4). The presentation is a series of photographs provided by the contractors showing the cleanup over the last year at Alameda Point. Mr. Brooks said that only a few sites remain in the investigation phase, while most of the sites have moved on to FS, remedial action, and remedial design. He noted that the remediation at most sites supports unrestricted use.

Slide 2 lists the top 10 cleanup sites at Alameda Point. Slides 4 and 5 show the TCRA excavation at the firing range berm and trucks being loaded with soil. Mr. Brooks said that dust control is closely monitored in the berm area. Slide 7 shows that the berm has been excavated and the soil removed. Slide 8 shows the screening machines that starts with a ¾-inch screen and narrows to a ¼-inch screen. The screening separates metal and debris from the soil. Slide 9 shows the soil stockpile that is free of metal debris. Slide 10 shows the sorting process to remove larger fragments of metal.

Slide 11 shows the IR Site 1 debris pit excavation. Mr. Brooks said that the site contained projectile material and some of the 20 millimeter (mm) projectiles were encased in concrete (Slide 12). Slide 13 shows management of projectile waste inside a bunker. The waste is stored in drums.

Slides 15 to 23 illustrate the removal action at Sites 1, 2 and 32. Slide 16 shows the process of locating radiological anomalies. Mr. Brooks said that a paint sprayer is used, which sprays paint on the ground were radiological anomalies are detected. Slide 17 shows the field screening measurements being taken.

Slides 24 to 31 show the wetland water supply at IR Site 2. Slide 26 shows a worker assessing the culvert blockage. Mr. Brooks said that the culvert is a few hundred feet long. The culvert was cleared by dragging a concrete parking stop, tied to a cable, back and forth through the culvert. Large pieces of driftwood, and trapped sediment were removed by this process.

Slides 32 to 37 show the six-phase heating process for cleanup of soil and groundwater. Mr. Brooks said that this project has been ongoing since 2003 and that it is currently in Phase 3. Slides 39 to 43 show the IR Site 26 groundwater cleanup treatment area. The injection process uses hydrogen peroxide and citric acid to break down the contaminants into harmless chemicals. Slides 44 to 50 show the IR Site 14 groundwater cleanup. Mr. Brooks said that the cleanup process was similar to Site 26 but used a different reagent (sodium persulfate) and application mechanism.

Slides 51 to 57 show the storm drain line removal action process. Mr. Brooks said that some waste material from the radium paint shop was discharged through the storm drain. Slides 58 to 66 show the debris pile removal action at the Seaplane Lagoon. The debris piles are best accessed and excavated during low tide. Slide 59 shows removal of debris pile 1 and Slide 60 shows removal of debris pile 2. Slide 62 shows the long-reach excavator tractor removing the debris.

Slides 67 to 75 are photographs of the Term 1 (Breakwater Beach) aboveground storage tank (AST) demolition and removal. Slide 62 shows how the ASTs were removed. Mr. Brooks said that the tanks were cleaned before they were demolished. Slides 76 to 83 show the CAA 3 soil and groundwater cleanup. Mr. Brooks said that the site is contaminated by petroleum. He added that the treatment system was expanded to increase its effectiveness. The graph on Slide 82 showed the amounts of contaminants (in pounds) removed. Mr. Brooks explained that the upward sloping line on the graph indicates that more contaminant is present to be removed.

Slides 84 to 89 show soil and groundwater cleanup at CAA C, which is being conducted by Shaw Environmental. An aviation gasoline spill occurred at the site. Slide 88 shows a graph illustrating the amount of mass removal. Mr. Brooks said that the treatment system was operating well and not only destroys the contaminant but also promotes biodegradation.

Mr. Brooks asked whether the RAB members had any questions on the presentation. Mrs. Sweeney asked how many gallons make up a pound. Mr. Humphreys replied 8.3 pounds per gallon. Mr. Simpson asked Mr. Brooks if could explain the graph on Slide 82. Mr. Brooks explained that the graph showed the total pounds of hydrocarbon removed, which was about 60,000 pounds. He added that when the treatment system finishes, the graph will flatten out, which implies that the rate of material removal has diminished over time. Mr. Humphreys asked whether CAA C was near Building 5. Mr. Brooks confirmed that CAA C was near Building 5 and noted that the treatment system at CAA C is operating successfully. Mr. Humphreys asked whether Site 14 used sodium percarbonate rather than sodium persulfate as a reagent. Mr. Brooks confirmed that sodium persulfate was used.

Ms. Smith asked how the unspent munitions entered the concrete. Mr. Brooks said it appears that concrete was poured on the projectiles.

Mr. Torrey asked how the radiological anomalies were located. Mr. Brooks explained that Slide 16 shows a wheeled machine that deploys radiation detectors. The detectors were connected to a computer system and the driver would activate the paint sprayer to mark anomalies that are detected. Mr. Brooks said that the anomalies could then be checked with other instruments and assist in soil sampling. Mr. Torrey asked about the components of the paint. Mr. Brooks replied that the paint is likely the same used for utility marking.

Mr. Humphreys asked which slide showed the debris pit. Mr. Brooks replied, Slide 11. Mrs. Sweeney asked how the turbidity curtain was working. Mr. Brooks replied that the turbidity curtain was operating well. He said that turbidity readings were taken every few minutes and were in the range of 3 and 4 overall.

V. BCT Update

Ms. Cook provided the BRAC Cleanup Team (BCT) update. She announced that the first terrestrial Finding of Suitability to Transfer (FOST) was completed on October 1, 2008, and that 60 acres of land in the area of transfer parcel Public Benefit Conveyance (PBC) 1 is officially ready to be transferred to the city. She noted the area encompasses two-thirds of IR Site 15 along with other land areas that do not contain any IR sites. However, some petroleum work is under way; Mr. West is working with the Navy to ensure work complies with the Water Board requirements. Ms. Cook stated that this was the first land-based FOST and that an off-shore FOST was completed about 3 years ago. Ms. Cook said that it is a major accomplishment to transfer property.

Ms. Cook said that at the September 16, 2008, BCT meeting the federal transfer parcels (Fed 1 and Fed 2) were discussed in detail. Based on the review on the draft site investigation (SI) report, some additional sampling will be conducted at certain areas along the runway (IR Site 33) and will continue into the runway wetlands. No major concerns are noted for the runway wetlands but some polycyclic aromatic hydrocarbons (PAH) detections along the side of the runways require further investigation.

Ms. Cook said that a few more areas identified in the aerial photographs show dark stains where the Navy will collect additional samples. She said that the regulators will work with the Navy to select the appropriate type of soil and groundwater sampling. 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. She said that the area was recently being considered for a hospital and long-term care facility, and then a month later, it was being considered for an outpatient facility. Ms. Cook said that the type of reuse makes a difference in deciding on the screening criteria to be used.

Ms. Cook said that the final FS for IR Site 24 and the final RI for OU-2C (which includes IR Sites 5, 10, and 12) have been submitted. She said that further discussion of OU-2C moving into the FS phase could occur at a technical subcommittee meeting if the RAB members were interested. Ms. Cook noted that the Navy provided the regulators a presentation on remedial action alternatives for IR Site 24 several months ago.

Mr. Leach asked if there were any restrictions in the federal-to-federal property transfer. Ms. Cook explained that most remedies are designed for unrestricted use but if the use is restricted, then institutional controls will be required. She added that there is a complication in federal-to-federal transfer because the subject property can be transferred before the remedy is completed.

Ms. Lofstrom also provided an update on FISCA; the Shinsei Gardens project. Ms. Lofstrom said that Ms. Potter (city) mentioned installing a vapor barrier over the groundwater plume during the ARRA meeting held on October 1, 2008. Ms. Lofstrom said that Mr. Henry Wong (DTSC) is the project regulator and therefore she would not be able to give details on it. Ms. Lofstrom wanted the RAB to know that the Phase 1 work of constructing a permeable layer with horizontal venting pipes has started and the second part would be the vapor barrier. She added that it was a redundant system. Ms. Lofstrom said that the initial material is being laid out and the next activity will be spraying on the membrane and installing another material above it. Ms. Lofstrom showed the RAB a sample of the Geo-Seal material along with information.

VI. Community and RAB Comment Period

Mr. Sweeney asked whether the Navy met with SunCal. Mr. Brooks replied that the meeting with SunCal has been postponed to October 14, 2008. Mrs. Sweeney asked who would arrange for the technical subcommittee for OU-2C. Mr. Brooks replied that he would arrange the meeting via e-mail and said that as a kickoff meeting on the FS recently was held, it would take about 30 days because the contractors would need time to develop a concept for an FS. Mrs. Sweeney asked whether a technical subcommittee meeting could be held before the next RAB meeting. Mr. Brooks replied that he would speak with the contractors. Ms. Cook suggested that it would be good to review the information on the RI first and then see how it leads to the FS rather than proceeding into the FS process. Mr. Brooks said that he would target the technical subcommittee meeting before next month's RAB meeting.

Mrs. Sweeney said that Page 17 of the amendment to the draft SMP states that the federal parcels were being transferred to the Veterans Administration. Mrs. Sweeney then asked why there is a new contractor for the parcels. Mr. Brooks replied that the previous contractor's (Bechtel) contract ended and a new contractor will be hired. Ms. Lofstrom asked about plans for the SMP for Economic Development Conveyance (EDC)-12 and EDC-17 transfer parcels. Mr. Brooks said that Navy would like some investigation there. Ms. Lofstrom asked if this investigation would appear on the final version of the SMP, and Mr. Brooks said that it would.

Mr. Hoffman asked whether all site data were entered into Geotracker. Mr. Brooks said that only the petroleum data are entered into the Geotracker database, and the EnviroStor database will contain all the Comprehensive Environmental Response, Compensation, and Liability Act

(CERCLA) data. Ms. Lofstrom said that DTSC was developing a system that will enable the Navy to submit data directly to EnviroStor, rather than sending a report that needs to be uploaded.

Mr. Humphreys said that the Navy listed a figure of $200 million several years ago that had been spent on remediation work. He asked if the Navy had an updated amount for what has been spent or will be spent on remediation. Mr. Brooks said that the budget for FY 2009 that started on October 1 is $41.5 million. He said that he would provide a cumulative figure at the next RAB meeting.

VII. Meeting Adjournment

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

Action Items

Action Items:	**Action Item Update**:
1. Mr. Brooks will find out the compound of radium that is contained in paints.	1. Continued from September 2008 RAB meeting.
2. Mr. Brooks to provide cumulative budget for the Alameda Point environmental cleanup.	2. New
3. Question regarding depth and sub-grade volume excavated from the firing range berm and radiological survey of berm material.	3. New
4. Request for presentations – OU-5/IR02 (FISCA) groundwater cleanup, Site 2 feasibility study, and data gap sampling results of OU-2A, OU-2B, and OU-2C.	4. New

ATTACHMENT A

NAVAL AIR STATION ALAMEDA
RESTORATION ADVISORY BOARD MEETING AGENDA

October 2, 2008

(1 page)

RESTORATION ADVISORY BOARD

NAVAL AIR STATION, ALAMEDA

AGENDA

OCTOBER 2, 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 – 7:30	**9/10/08 ARRA Meeting Summary**	**Mr. George Humphreys and Mr. Peter Russell**
7:30 – 8:00	**Fiscal Year 2008 Highlights**	
8:00 – 8:15	**BCT Update**	**Anna-Marie Cook**
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 Draft Final 2009 Amendment to the Site Management Plan. Provided by Mr. Pat Brooks, Navy Co-Chair (18 pages)

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

B-3 Response to Evaluation of RAB Comments on IR Site 1. Provided by Mr. George Humphreys, RAB Community Co-Chair (5 pages)

B-4 2008 Alameda Point Accomplishments. Provided by Mr. Pat Brooks, Navy Co-Chair (45 pages)

ATTACHMENT B-1

DRAFT-FINAL 2009 AMENDMENT TO THE SITE MANAGEMENT PLAN

(18 pages)

BRAC
PMO

Draft-Final

2009 Amendment to the Site Management Plan

Alameda Point
Alameda, California

September 15, 2008

ID	Task Name	Primary or Secondary	Duration	Start	Finish
1	**OU-1 Site 14**		**1036 days**	**Wed 1/31/07**	**Thu 1/20/11**
2	Final Record of Decision Approval	P	0 days	Wed 1/31/07	Wed 1/31/07
3	Preliminary Remedial Design and Draft Remedial Action Work Plan	P	321 edays	Wed 1/31/07	Tue 12/18/07
4	Agency Review		62 edays	Tue 12/18/07	Mon 2/18/08
5	Draft Final Remedial Design and Draft Final RAWP	P	67 edays	Mon 2/18/08	Fri 4/25/08
6	Agency Review/Concurrence Period		97 edays	Fri 4/25/08	Thu 7/31/08
7	Final Remedial Design and Remedial Action Work Plan	P	69 edays	Thu 7/31/08	Wed 10/8/08
8	Remedial Action		459 edays	Mon 9/15/08	Fri 12/18/09
9	Remedial Actions Complete		0 days	Fri 12/18/09	Fri 12/18/09
10	Draft Remedial Action Report	P	120 edays	Sun 4/25/10	Mon 8/23/10
11	Agency Review		60 edays	Mon 8/23/10	Fri 10/22/10
12	Draft Final Remedial Action Report/RTCs	P	59 edays	Fri 10/22/10	Mon 12/20/10
13	Agency Review/Concurrence Period		31 edays	Mon 12/20/10	Thu 1/20/11
14	Final Remedial Action Report	P	0 days	Thu 1/20/11	Thu 1/20/11
15	Draft Long-Term Monitoring Plan	P	120 edays	Fri 12/18/09	Sat 4/17/10
16	Agency Review		60 edays	Sat 4/17/10	Wed 6/16/10
17	Draft Final Long-Term Monitoring Plan/RTCs	P	60 edays	Wed 6/16/10	Sun 8/15/10
18	Agency Review/Concurrence Period		31 edays	Sun 8/15/10	Wed 9/15/10
19	Final Long-Term Monitoring Plan	P	0 days	Wed 9/15/10	Wed 9/15/10
20					
21	**OU-1 Sites 6, 7, 8, 16**		**851 days**	**Fri 10/19/07**	**Sun 1/23/11**
22	Final Record of Decision Approval	P	0 days	Fri 10/19/07	Fri 10/19/07
23	Preliminary Remedial Design and Draft Remedial Action Work Plan	P	258 edays	Fri 10/19/07	Thu 7/3/08
24	Agency Review		90 edays	Thu 7/3/08	Wed 10/1/08
25	Draft Final Remedial Design and Draft Final RAWP	P	120 edays	Wed 10/1/08	Thu 1/29/09
26	Agency Review/Concurrence Period		32 edays	Thu 1/29/09	Mon 3/2/09
27	Final Remedial Design and Remedial Action Work Plan	P	0 days	Mon 3/2/09	Mon 3/2/09
28	Remedial Action		400 edays	Mon 3/2/09	Tue 4/6/10
29	Remedial Actions Complete		0 days	Tue 4/6/10	Tue 4/6/10
30	Draft Remedial Action Report	P	120 edays	Sun 4/25/10	Mon 8/23/10
31	Agency Review		60 edays	Mon 8/23/10	Fri 10/22/10
32	Draft Final Remedial Action Report/RTCs	P	62 edays	Fri 10/22/10	Thu 12/23/10
33	Agency Review/Concurrence Period		31 edays	Thu 12/23/10	Sun 1/23/11
34	Final Remedial Action Report	P	0 days	Sun 1/23/11	Sun 1/23/11
35	Draft Long-Term Monitoring Plan	P	122 edays	Tue 4/6/10	Fri 8/6/10
36	Agency Review		60 edays	Fri 8/6/10	Tue 10/5/10
37	Draft Final Long-Term Monitoring Plan/RTCs	P	60 edays	Tue 10/5/10	Sat 12/4/10
38	Agency Review/Concurrence Period		31 edays	Sat 12/4/10	Tue 1/4/11
39	Final Long-Term Monitoring Plan	P	0 days	Tue 1/4/11	Tue 1/4/11
40					
41	**OU-2A Sites 9, 13, 19, 22, 23**		**1532 days**	**Fri 9/19/08**	**Tue 8/5/14**
42	Draft Data Gap Tech Memo OU-2A/OU-2B	S	0 edays	Fri 9/19/08	Fri 9/19/08
43	Agency Review		60 edays	Fri 9/19/08	Tue 11/18/08
44	Final Data Gap Tech Memo OU-2A/OU-2B/ RTCs	S	59 edays	Tue 11/18/08	Fri 1/16/09
45					
46	Draft Human Health Risk Assessment	S	90 edays	Fri 11/28/08	Thu 2/26/09
47	Agency Review		32 edays	Thu 2/26/09	Mon 3/30/09
48	Final Human Health Risk Assessment/RTCs	S	30 edays	Mon 3/30/09	Wed 4/29/09
49					

ID	Task Name	Primary or Secondary	Duration	Start	Finish
50	Revised Draft FS Report	P	120 edays	Wed 12/17/08	Thu 4/16/09
51	Agency Review		60 edays	Thu 4/16/09	Mon 6/15/09
52	Draft Final FS Report/RTCs	P	60 edays	Mon 6/15/09	Fri 8/14/09
53	Agency Review/Concurrence Period		31 edays	Fri 8/14/09	Mon 9/14/09
54	Final FS Report	P	0 days	Mon 9/14/09	Mon 9/14/09
55	Draft Proposed Plan	P	91 edays	Mon 9/14/09	Mon 12/14/09
56	Agency Review		32 edays	Mon 12/14/09	Fri 1/15/10
57	Draft Final Proposed Plan/RTCs	P	30 edays	Fri 1/15/10	Sun 2/14/10
58	Proposed Plan Preparation	P	44 edays	Sun 2/14/10	Tue 3/30/10
59	Public Meeting and Public Comment Period		31 edays	Tue 3/30/10	Fri 4/30/10
60	Draft Record of Decision	P	91 edays	Fri 4/30/10	Fri 7/30/10
61	Agency Review		60 edays	Fri 7/30/10	Tue 9/28/10
62	Draft Final Record of Decision/RTCs	P	60 edays	Tue 9/28/10	Sat 11/27/10
63	Agency Review/Concurrence Period		31 edays	Sat 11/27/10	Tue 12/28/10
64	Final Record of Decision Approval	P	0 days	Tue 12/28/10	Tue 12/28/10
65	Preliminary Remedial Design/Design Sampling	P	210 edays	Sat 11/27/10	Sat 6/25/11
66	Agency Review		45 edays	Sat 6/25/11	Tue 8/9/11
67	Final Remedial Design	P	30 edays	Tue 8/9/11	Thu 9/8/11
68	Final Agency Review		14 edays	Thu 9/8/11	Thu 9/22/11
69	Draft Remedial Action Work Plan	P	121 edays	Tue 5/10/11	Thu 9/8/11
70	Agency Review		62 edays	Thu 9/8/11	Wed 11/9/11
71	Draft Final Remedial Action Work Plan/RTCs	P	59 edays	Wed 11/9/11	Sat 1/7/12
72	Agency Review/Concurrence Period		32 edays	Sat 1/7/12	Wed 2/8/12
73	Final Remedial Action Work Plan	P	0 days	Wed 2/8/12	Wed 2/8/12
74	Remedial Actions		731 edays	Wed 2/8/12	Sat 2/8/14
75	Remedial Actions Complete		0 days	Sat 2/8/14	Sat 2/8/14
76	Draft Remedial Action Report	P	122 edays	Wed 11/6/13	Sat 3/8/14
77	Agency Review		60 edays	Sat 3/8/14	Wed 5/7/14
78	Draft Final Remedial Action Report/RTCs	P	59 edays	Wed 5/7/14	Sat 7/5/14
79	Agency Review/Concurrence Period		31 edays	Sat 7/5/14	Tue 8/5/14
80	Final Remedial Action Report	P	0 days	Tue 8/5/14	Tue 8/5/14
81	Draft Long-Term Monitoring Plan	P	122 edays	Wed 11/6/13	Sat 3/8/14
82	Agency Review		60 edays	Sat 3/8/14	Wed 5/7/14
83	Draft Final Long-Term Monitoring Plan/RTCs	P	59 edays	Wed 5/7/14	Sat 7/5/14
84	Agency Review/Concurrence Period		31 edays	Sat 7/5/14	Tue 8/5/14
85	Final Long-Term Monitoring Plan	P	0 days	Tue 8/5/14	Tue 8/5/14
86					
87	**OU-2B Sites 3, 4, 11, 21**		**1550 days**	**Wed 6/18/08**	**Wed 5/28/14**
88	Draft Data Gap Tech Memo OU-2A/OU-2B	S	0 edays	Fri 9/19/08	Fri 9/19/08
89	Agency Review		60 edays	Fri 9/19/08	Tue 11/18/08
90	Final Data Gap Tech Memo OU-2A/OU-2B/ Respond to Comments	S	59 edays	Tue 11/18/08	Fri 1/16/09
91					
92	Draft Work Plan ZVI Pilot Test B163	S	134 edays	Wed 6/18/08	Thu 10/30/08
93	Agency Review		32 edays	Thu 10/30/08	Mon 12/1/08
94	Final Work Plan ZVI Pilot Test B163/ Respond to Comments	S	30 edays	Mon 12/1/08	Wed 12/31/08
95	ZVI Pilot Test B163 Fieldwork		44 edays	Wed 12/31/08	Fri 2/13/09
96					
97	Revised Draft FS Report	P	136 edays	Fri 8/29/08	Mon 1/12/09
98	Agency Review		60 edays	Mon 1/12/09	Fri 3/13/09

ID	Task Name	Primary or Secondary	Duration	Start	Finish
99	Draft Final FS Report/RTCs	P	59 edays	Fri 3/13/09	Mon 5/11/09
100	Agency Review/Concurrence Period		30 edays	Mon 5/11/09	Wed 6/10/09
101	Final FS Report	P	0 days	Wed 6/10/09	Wed 6/10/09
102	Draft Proposed Plan	P	91 edays	Wed 6/10/09	Wed 9/9/09
103	Agency Review		30 edays	Wed 9/9/09	Fri 10/9/09
104	Draft Final Proposed Plan/RTCs	P	30 edays	Fri 10/9/09	Sun 11/8/09
105	Proposed Plan Preparation	P	42 edays	Sun 11/8/09	Sun 12/20/09
106	Public Meeting and Public Comment Period		31 edays	Sun 12/20/09	Wed 1/20/10
107	Draft Record of Decision	P	91 edays	Wed 1/20/10	Wed 4/21/10
108	Agency Review		60 edays	Wed 4/21/10	Sun 6/20/10
109	Draft Final Record of Decision/RTCs	P	60 edays	Sun 6/20/10	Thu 8/19/10
110	Agency Review/Concurrence Period		30 edays	Thu 8/19/10	Sat 9/18/10
111	Final Record of Decision Approval	P	0 days	Sat 9/18/10	Sat 9/18/10
112	Preliminary Remedial Design/Design Sampling	P	240 edays	Thu 8/19/10	Sat 4/16/11
113	Agency Review		46 edays	Sat 4/16/11	Wed 6/1/11
114	Final Remedial Design	P	30 edays	Wed 6/1/11	Fri 7/1/11
115	Final Agency Review		14 edays	Fri 7/1/11	Fri 7/15/11
116	Draft Remedial Action Work Plan	P	120 edays	Thu 3/3/11	Fri 7/1/11
117	Agency Review		61 edays	Fri 7/1/11	Wed 8/31/11
118	Draft Final Remedial Action Work Plan/RTCs	P	60 edays	Wed 8/31/11	Sun 10/30/11
119	Agency Review/Concurrence Period		31 edays	Sun 10/30/11	Wed 11/30/11
120	Final Remedial Action Work Plan	P	0 days	Wed 11/30/11	Wed 11/30/11
121	Remedial Actions		730 edays	Wed 11/30/11	Fri 11/29/13
122	Remedial Actions Complete		0 days	Fri 11/29/13	Fri 11/29/13
123	Draft Remedial Action Report	P	120 edays	Thu 8/29/13	Fri 12/27/13
124	Agency Review		61 edays	Fri 12/27/13	Wed 2/26/14
125	Draft Final Remedial Action Report/RTCs	P	60 edays	Wed 2/26/14	Sun 4/27/14
126	Agency Review/Concurrence Period		31 edays	Sun 4/27/14	Wed 5/28/14
127	Final Remedial Action Report	P	0 days	Wed 5/28/14	Wed 5/28/14
128	Draft Long-Term Monitoring Plan	P	120 edays	Thu 8/29/13	Fri 12/27/13
129	Agency Review		61 edays	Fri 12/27/13	Wed 2/26/14
130	Draft Final Long-Term Monitoring Plan/RTCs	P	60 edays	Wed 2/26/14	Sun 4/27/14
131	Agency Review/Concurrence Period		31 edays	Sun 4/27/14	Wed 5/28/14
132	Final Long-Term Monitoring Plan	P	0 days	Wed 5/28/14	Wed 5/28/14
133					
134	**OU-2C Sites 5, 10, 12**		**2077 days**	**Fri 6/23/06**	**Tue 6/10/14**
135	Six-Phase Heating Removal Action -- Plume 5-3		990 edays	Fri 6/23/06	Mon 3/9/09
136	Draft Removal Action Completion Report	S	90 days	Mon 3/9/09	Fri 7/10/09
137	Agency Review		31 edays	Fri 7/10/09	Mon 8/10/09
138	Final Removal Action Completion Report / RTCs	S	30 edays	Mon 8/10/09	Wed 9/9/09
139					
140	Supplemental RI Fieldwork		66 edays	Mon 3/26/07	Thu 5/31/07
141	Draft RI Report Revision 1	P	327 edays	Thu 5/31/07	Tue 4/22/08
142	Agency Review		105 edays	Tue 4/22/08	Tue 8/5/08
143	Draft Final RI Report / RTCs	P	30 edays	Tue 8/5/08	Thu 9/4/08
144	Agency Review/Concurrence Period		15 edays	Thu 9/4/08	Fri 9/19/08
145	Final RI Report	P	0 days	Fri 9/19/08	Fri 9/19/08
146	Draft FS Report	P	122 edays	Fri 9/19/08	Mon 1/19/09
147	Agency Review		60 edays	Mon 1/19/09	Fri 3/20/09

ID	Task Name	Primary or Secondary	Duration	Start	Finish
148	Draft Final FS Report/RTCs	P	60 edays	Fri 3/20/09	Tue 5/19/09
149	Agency Review/Concurrence Period		30 edays	Tue 5/19/09	Thu 6/18/09
150	Final FS Report	P	0 days	Thu 6/18/09	Thu 6/18/09
151	Draft Proposed Plan	P	90 edays	Thu 6/18/09	Wed 9/16/09
152	Agency Review		30 edays	Wed 9/16/09	Fri 10/16/09
153	Draft Final Proposed Plan/RTCs	P	31 edays	Fri 10/16/09	Mon 11/16/09
154	Proposed Plan Preparation	P	46 edays	Mon 11/16/09	Fri 1/1/10
155	Public Meeting and Public Comment Period		30 edays	Fri 1/1/10	Sun 1/31/10
156	Draft Record of Decision	P	90 edays	Sun 1/31/10	Sat 5/1/10
157	Agency Review		60 edays	Sat 5/1/10	Wed 6/30/10
158	Draft Final Record of Decision/RTCs	P	60 edays	Wed 6/30/10	Sun 8/29/10
159	Agency Review/Concurrence Period		31 edays	Sun 8/29/10	Wed 9/29/10
160	Final Record of Decision Approval	P	0 days	Wed 9/29/10	Wed 9/29/10
161	Preliminary Remedial Design/Design Sampling	P	241 edays	Sun 8/29/10	Wed 4/27/11
162	Agency Review		46 edays	Wed 4/27/11	Sun 6/12/11
163	Final Remedial Design	P	31 edays	Sun 6/12/11	Wed 7/13/11
164	Final Agency Review		14 edays	Wed 7/13/11	Wed 7/27/11
165	Draft Remedial Action Work Plan	P	122 edays	Sun 3/13/11	Wed 7/13/11
166	Agency Review		60 edays	Wed 7/13/11	Sun 9/11/11
167	Draft Final Remedial Action Work Plan/RTCs	P	62 edays	Sun 9/11/11	Sat 11/12/11
168	Agency Review/Concurrence Period		30 edays	Sat 11/12/11	Mon 12/12/11
169	Final Remedial Action Work Plan	P	0 days	Mon 12/12/11	Mon 12/12/11
170	Remedial Actions		733 edays	Mon 12/12/11	Sat 12/14/13
171	Remedial Actions Complete		0 days	Sat 12/14/13	Sat 12/14/13
172	Draft Remedial Action Report	P	122 edays	Wed 9/11/13	Sat 1/11/14
173	Agency Review		60 edays	Sat 1/11/14	Wed 3/12/14
174	Draft Final Remedial Action Report/RTCs	P	60 edays	Wed 3/12/14	Sun 5/11/14
175	Agency Review/Concurrence Period		30 edays	Sun 5/11/14	Tue 6/10/14
176	Final Remedial Action Report	P	0 days	Tue 6/10/14	Tue 6/10/14
177	Draft Long-Term Monitoring Plan	P	122 edays	Wed 9/11/13	Sat 1/11/14
178	Agency Review		60 edays	Sat 1/11/14	Wed 3/12/14
179	Draft Final Long-Term Monitoring Plan/RTCs	P	60 edays	Wed 3/12/14	Sun 5/11/14
180	Agency Review/Concurrence Period		30 edays	Sun 5/11/14	Tue 6/10/14
181	Final Long-Term Monitoring Plan	P	0 days	Tue 6/10/14	Tue 6/10/14
182					
183	**OU-2C Sites 5 and 10 Rad**		**469 days**	**Fri 1/11/08**	**Thu 10/29/09**
184	Final TCRA Action Memo/Removal Action Work Plan	S	0 edays	Fri 6/13/08	Fri 6/13/08
185	TCRA Fieldwork		475 edays	Fri 1/11/08	Thu 4/30/09
186	Draft TCRA Completion Report	S	90 edays	Thu 4/30/09	Wed 7/29/09
187	Agency Review		61 edays	Wed 7/29/09	Mon 9/28/09
188	Final TCRA Completion Report/RTCs	S	31 edays	Mon 9/28/09	Thu 10/29/09
189					
190	**OU-3 Site 1**		**1020 days**	**Mon 10/30/06**	**Sun 9/26/10**
191	Final Lead and Rad TCRA Work Plan	S	32 edays	Mon 1/29/07	Fri 3/2/07
192	Lead and Rad TCRA Fieldwork		476 edays	Fri 3/2/07	Fri 6/20/08
193	Draft TCRA Completion Report	S	154 edays	Fri 6/20/08	Fri 11/21/08
194	Agency Review		60 edays	Fri 11/21/08	Tue 1/20/09
195	Final TCRA Completion Report /RTCs	S	30 edays	Tue 1/20/09	Thu 2/19/09
196					

ID	Task Name	Primary or Secondary	Duration	Start	Finish
197	Draft Record of Decision	P	163 edays	Mon 10/30/06	Wed 4/11/07
198	Agency Review		90 edays	Wed 4/11/07	Tue 7/10/07
199	Draft Final Record of Decision/RTCs	P	113 edays	Mon 7/7/08	Tue 10/28/08
200	Agency Review/Concurrence Period		30 edays	Tue 10/28/08	Thu 11/27/08
201	Final Record of Decision Approval	P	0 days	Thu 11/27/08	Thu 11/27/08
202					
203	Preliminary Remedial Design/Draft RA Work Plan	P	165 edays	Fri 7/18/08	Tue 12/30/08
204	Agency Review		62 edays	Tue 12/30/08	Mon 3/2/09
205	Draft-Final Remedial Design/RA Work Plan RTCs	P	60 edays	Mon 3/2/09	Fri 5/1/09
206	Agency Review/Concurrence Period		31 edays	Fri 5/1/09	Mon 6/1/09
207	Final Remedial Design/ RA Work Plan	P	0 days	Mon 6/1/09	Mon 6/1/09
208	Remedial Actions		301 edays	Mon 6/1/09	Mon 3/29/10
209	Remedial Actions Complete		0 days	Mon 3/29/10	Mon 3/29/10
210	Draft Remedial Action Report	P	120 edays	Sun 12/27/09	Mon 4/26/10
211	Agency Review		62 edays	Mon 4/26/10	Sun 6/27/10
212	Draft Final Remedial Action Report/RTCs	P	60 edays	Sun 6/27/10	Thu 8/26/10
213	Agency Review/Concurrence Period		31 edays	Thu 8/26/10	Sun 9/26/10
214	Final Remedial Action Report	P	0 days	Sun 9/26/10	Sun 9/26/10
215	Draft Long-Term Monitoring Plan	P	119 edays	Mon 12/28/09	Mon 4/26/10
216	Agency Review		60 edays	Mon 4/26/10	Fri 6/25/10
217	Draft Final Long-Term Monitoring Plan/RTCs	P	59 edays	Fri 6/25/10	Mon 8/23/10
218	Agency Review/Concurrence Period		31 edays	Mon 8/23/10	Thu 9/23/10
219	Final Long-Term Monitoring Plan	P	0 days	Thu 9/23/10	Thu 9/23/10
220					
221	**OU-4A Site 2**		**1723 days**	**Wed 12/20/06**	**Sat 7/27/13**
222	Draft Final FS Report/RTCs	P	105 edays	Wed 12/20/06	Wed 4/4/07
223	Agency Review/Concurrence Period		219 edays	Wed 4/4/07	Fri 11/9/07
224	Draft Final FS Report	P	153 edays	Fri 11/9/07	Thu 4/10/08
225	Agency Review/Concurrence Period	P	153 edays	Thu 4/10/08	Wed 9/10/08
226	Final FS Report	P	0 edays	Wed 9/10/08	Wed 9/10/08
227	Draft Proposed Plan	P	90 edays	Wed 9/10/08	Tue 12/9/08
228	Agency Review		30 edays	Tue 12/9/08	Thu 1/8/09
229	Draft Final Proposed Plan/RTCs	P	29 edays	Thu 1/8/09	Fri 2/6/09
230	Proposed Plan Preparation	P	45 edays	Fri 2/6/09	Mon 3/23/09
231	Public Meeting and Public Comment Period		30 edays	Mon 3/23/09	Wed 4/22/09
232	Draft Record of Decision	P	90 edays	Wed 4/22/09	Tue 7/21/09
233	Agency Review		60 edays	Tue 7/21/09	Sat 9/19/09
234	Draft Final Record of Decision/RTCs	P	60 edays	Sat 9/19/09	Wed 11/18/09
235	Agency Review/Concurrence Period		30 edays	Wed 11/18/09	Fri 12/18/09
236	Final Record of Decision Approval	P	0 days	Fri 12/18/09	Fri 12/18/09
237	Preliminary Remedial Design	P	210 edays	Wed 11/18/09	Wed 6/16/10
238	Agency Review		45 edays	Wed 6/16/10	Sat 7/31/10
239	Final Remedial Design	P	32 edays	Sat 7/31/10	Wed 9/1/10
240	Final Agency Review		14 edays	Wed 9/1/10	Wed 9/15/10
241	Draft Remedial Action Work Plan	P	122 edays	Sun 5/2/10	Wed 9/1/10
242	Agency Review		60 edays	Wed 9/1/10	Sun 10/31/10
243	Draft Final Remedial Action Work Plan/RTCs	P	59 edays	Sun 10/31/10	Wed 12/29/10
244	Agency Review/Concurrence Period		31 edays	Wed 12/29/10	Sat 1/29/11
245	Final Remedial Action Work Plan	P	0 days	Sat 1/29/11	Sat 1/29/11

ID	Task Name	Primary or Secondary	Duration	Start	Finish
246	Remedial Actions		732 edays	Sat 1/29/11	Wed 1/30/13
247	Remedial Actions Complete		0 days	Wed 1/30/13	Wed 1/30/13
248	Draft Remedial Action Report	P	122 edays	Sun 10/28/12	Wed 2/27/13
249	Agency Review		60 edays	Wed 2/27/13	Sun 4/28/13
250	Draft Final Remedial Action Report/RTCs	P	59 edays	Sun 4/28/13	Wed 6/26/13
251	Agency Review/Concurrence Period		31 edays	Wed 6/26/13	Sat 7/27/13
252	Final Remedial Action Report	P	0 days	Sat 7/27/13	Sat 7/27/13
253	Draft Long-Term Monitoring Plan	P	122 edays	Sun 10/28/12	Wed 2/27/13
254	Agency Review		60 edays	Wed 2/27/13	Sun 4/28/13
255	Draft Final Long-Term Monitoring Plan/RTCs	P	59 edays	Sun 4/28/13	Wed 6/26/13
256	Agency Review/Concurrence Period		31 edays	Wed 6/26/13	Sat 7/27/13
257	Final Long-Term Monitoring Plan	P	0 days	Sat 7/27/13	Sat 7/27/13
258					
259	**OU-4B Site 17**		**943 days**	**Wed 11/1/06**	**Mon 6/14/10**
260	Final Record of Decision Approval	P	0 days	Wed 11/1/06	Wed 11/1/06
261	Preliminary Remedial Design	P	345 edays	Wed 11/1/06	Fri 10/12/07
262	Agency Review		60 edays	Fri 10/12/07	Tue 12/11/07
263	Draft-Final Remedial Design/RTCs	P	80 edays	Tue 12/11/07	Fri 2/29/08
264	Agency Review/Concurrence Period		31 edays	Fri 2/29/08	Mon 3/31/08
265	Final Remedial Design	P	0 edays	Thu 7/31/08	Thu 7/31/08
266					
267	Draft Remedial Action Work Plan	P	440 edays	Wed 11/1/06	Tue 1/15/08
268	Agency Review		62 edays	Tue 1/15/08	Mon 3/17/08
269					
270	Draft-Final Remedial Action Work Plan	P	93 edays	Wed 10/1/08	Fri 1/2/09
271	Agency Review/Concurrence Period		31 edays	Fri 1/2/09	Mon 2/2/09
272	Final Remedial Action Work Plan	P	0 days	Mon 2/2/09	Mon 2/2/09
273	Remedial Action		198 edays	Mon 3/2/09	Wed 9/16/09
274	Remedial Actions Complete		0 days	Wed 9/16/09	Wed 9/16/09
275	Draft Remedial Action Report	P	121 edays	Wed 9/16/09	Fri 1/15/10
276	Agency Review		60 edays	Fri 1/15/10	Tue 3/16/10
277	Draft Final Remedial Action Report/RTCs	P	60 edays	Tue 3/16/10	Sat 5/15/10
278	Agency Review/Concurrence Period		30 edays	Sat 5/15/10	Mon 6/14/10
279	Final Remedial Action Report	P	0 days	Mon 6/14/10	Mon 6/14/10
280					
281	**Site 17 Debris Piles TCRA**		**407 days**	**Mon 10/1/07**	**Wed 4/22/09**
282	Draft Debris Piles TCRA Action Memo and Removal Action Work F	S	162 edays	Mon 10/1/07	Tue 3/11/08
283	Agency Review		44 edays	Tue 3/11/08	Thu 4/24/08
284	Draft Final Action Memo and Work Plan Resolve Comments		104 edays	Thu 4/24/08	Wed 8/6/08
285	Concurrence Period	S	14 edays	Wed 8/6/08	Wed 8/20/08
286	Final Debris Piles TCRA Action Memo & Removal Action Work Pla	S	22 edays	Wed 8/20/08	Thu 9/11/08
287	Debris Piles TCRA		45 edays	Tue 9/9/08	Fri 10/24/08
288	Draft TCRA Completion Report	S	90 edays	Fri 10/24/08	Thu 1/22/09
289	Agency Review		60 edays	Thu 1/22/09	Mon 3/23/09
290	Final TCRA Completion Report	S	30 edays	Mon 3/23/09	Wed 4/22/09
291					
292	**OU-4B Site 24**		**1166 days**	**Fri 8/31/07**	**Sat 2/18/12**
293	Draft FS Report	P	89 edays	Fri 8/31/07	Wed 11/28/07
294	Agency Review		141 edays	Wed 11/28/07	Thu 4/17/08

ID	Task Name	Primary or Secondary	Duration	Start	Finish
295	Draft Final FS Report/RTCs	P	152 edays	Thu 4/17/08	Tue 9/16/08
296	Agency Review/Concurrence Period		6 edays	Tue 9/16/08	Mon 9/22/08
297	Final FS Report	P	0 days	Mon 9/22/08	Mon 9/22/08
298	Draft Proposed Plan	P	90 edays	Mon 9/22/08	Sun 12/21/08
299	Agency Review		32 edays	Sun 12/21/08	Thu 1/22/09
300	Draft Final Proposed Plan/RTCs	P	30 edays	Thu 1/22/09	Sat 2/21/09
301	Proposed Plan Preparation	P	47 edays	Sat 2/21/09	Thu 4/9/09
302	Public Meeting and Public Comment Period		30 edays	Thu 4/9/09	Sat 5/9/09
303	Draft Record of Decision	P	90 edays	Sat 5/9/09	Fri 8/7/09
304	Agency Review		62 edays	Fri 8/7/09	Thu 10/8/09
305	Draft Final Record of Decision/RTCs	P	60 edays	Thu 10/8/09	Mon 12/7/09
306	Agency Review/Concurrence Period		31 edays	Mon 12/7/09	Thu 1/7/10
307	Final Record of Decision Approval	P	0 days	Thu 1/7/10	Thu 1/7/10
308	Preliminary Remedial Design	P	150 edays	Mon 12/7/09	Thu 5/6/10
309	Agency Review		45 edays	Thu 5/6/10	Sun 6/20/10
310	Final Remedial Design	P	32 edays	Sun 6/20/10	Thu 7/22/10
311	Final Agency Review		14 edays	Thu 7/22/10	Thu 8/5/10
312	Draft Remedial Action Work Plan	P	122 edays	Mon 3/22/10	Thu 7/22/10
313	Agency Review		60 edays	Thu 7/22/10	Mon 9/20/10
314	Draft Final Remedial Action Work Plan/RTCs	P	62 edays	Mon 9/20/10	Sun 11/21/10
315	Agency Review/Concurrence Period		30 edays	Sun 11/21/10	Tue 12/21/10
316	Final Remedial Action Work Plan	P	0 days	Tue 12/21/10	Tue 12/21/10
317	Remedial Actions		365 edays	Tue 12/21/10	Wed 12/21/11
318	Remedial Actions Complete		0 days	Wed 12/21/11	Wed 12/21/11
319	Draft Remedial Action Report	P	120 edays	Tue 9/20/11	Wed 1/18/12
320	Agency Review/Concurrence Period		31 edays	Wed 1/18/12	Sat 2/18/12
321	Final Remedial Action Report	P	0 days	Sat 2/18/12	Sat 2/18/12
322					
323	**OU-4C Site 20**		**197 days**	**Thu 1/3/08**	**Mon 10/6/08**
324	Draft Record of Decision (No Action)	P	106 edays	Thu 1/3/08	Fri 4/18/08
325	Agency Review		70 edays	Fri 4/18/08	Fri 6/27/08
326	Draft Final Record of Decision/RTCs	P	70 edays	Fri 6/27/08	Fri 9/5/08
327	Agency Review/Concurrence Period		31 edays	Fri 9/5/08	Mon 10/6/08
328	Final Record of Decision Approval	P	0 days	Mon 10/6/08	Mon 10/6/08
329					
330	**OU-5 Site 25 Soil**		**295 days**	**Mon 10/15/07**	**Mon 12/1/08**
331	Final Record of Decision Approval	P	0 days	Mon 10/15/07	Mon 10/15/07
332	Draft LUC Remedial Design	P	164 edays	Mon 10/15/07	Thu 3/27/08
333	Agency Review		188 edays	Thu 3/27/08	Wed 10/1/08
334	Draft Final LUC Remedial Design/ Responses to Comments	P	30 edays	Wed 10/1/08	Fri 10/31/08
335	Agency Review/Concurrence Period		31 edays	Fri 10/31/08	Mon 12/1/08
336	Final LUC Remedial Design	P	0 days	Mon 12/1/08	Mon 12/1/08
337					
338	**OU-5 OU-05/IR02 Groundwater**		**930 days**	**Mon 9/10/07**	**Sat 4/2/11**
339	Final Record of Decision Approval	P	0 days	Mon 9/10/07	Mon 9/10/07
340	Preliminary Remedial Design and Draft Rem Action Work Plan	P	214 edays	Mon 9/10/07	Fri 4/11/08
341	Agency Review		63 edays	Fri 4/11/08	Fri 6/13/08
342	Draft Final Remedial Design and Remedial Action Work Plan	P	73 edays	Fri 6/13/08	Mon 8/25/08
343	Agency Review/Concurrence Period		30 edays	Mon 8/25/08	Wed 9/24/08

ID	Task Name	Primary or Secondary	Duration	Start	Finish
344	Final Remedial Design and Remedial Action Work Plan	P	0 days	Wed 9/24/08	Wed 9/24/08
345	Remedial Actions		730 edays	Mon 10/6/08	Wed 10/6/10
346	Remedial Actions Complete		0 days	Wed 10/6/10	Wed 10/6/10
347	Draft Remedial Action Report	P	122 edays	Sun 7/4/10	Wed 11/3/10
348	Agency Review		60 edays	Wed 11/3/10	Sun 1/2/11
349	Draft Final Remedial Action Report/RTCs	P	60 edays	Sun 1/2/11	Thu 3/3/11
350	Agency Review/Concurrence Period		30 edays	Thu 3/3/11	Sat 4/2/11
351	Final Remedial Action Report	P	0 days	Sat 4/2/11	Sat 4/2/11
352	Draft Long-Term Monitoring Plan	P	122 edays	Sun 7/4/10	Wed 11/3/10
353	Agency Review		60 edays	Wed 11/3/10	Sun 1/2/11
354	Draft Final Long-Term Monitoring Plan/RTCs	P	60 edays	Sun 1/2/11	Thu 3/3/11
355	Agency Review/Concurrence Period		30 edays	Thu 3/3/11	Sat 4/2/11
356	Final Long-Term Monitoring Plan	P	0 days	Sat 4/2/11	Sat 4/2/11
357					
358	**OU-6 Site 26**		**1130 days**	**Mon 8/7/06**	**Mon 12/6/10**
359	Final Record of Decision Approval	P	0 days	Mon 8/7/06	Mon 8/7/06
360	Preliminary Remedial Design and Draft Remedial Action Work Plar	P	364 edays	Tue 8/15/06	Tue 8/14/07
361	Agency Review		62 edays	Tue 8/14/07	Mon 10/15/07
362	Draft Final Remedial Design and Draft Final RAWP	P	142 edays	Mon 10/15/07	Wed 3/5/08
363	Agency Review/Concurrence Period		61 edays	Wed 3/5/08	Mon 5/5/08
364	Final Remedial Design and Remedial Action Work Plan	P	151 edays	Mon 5/5/08	Fri 10/3/08
365	Remedial Action		602 edays	Mon 7/14/08	Mon 3/8/10
366	Remedial Actions Complete		0 days	Mon 3/8/10	Mon 3/8/10
367	Draft Remedial Action Report	P	119 edays	Mon 3/8/10	Mon 7/5/10
368	Agency Review		60 edays	Mon 7/5/10	Fri 9/3/10
369	Draft Final Remedial Action Report/RTCs	P	62 edays	Fri 9/3/10	Thu 11/4/10
370	Agency Review/Concurrence Period		31 edays	Thu 11/4/10	Sun 12/5/10
371	Final Remedial Action Report	P	0 days	Sun 12/5/10	Sun 12/5/10
372	Draft Long-Term Monitoring Plan	P	122 edays	Mon 3/8/10	Thu 7/8/10
373	Agency Review		60 edays	Thu 7/8/10	Mon 9/6/10
374	Draft Final Long-Term Monitoring Plan/RTCs	P	60 edays	Mon 9/6/10	Fri 11/5/10
375	Agency Review/Concurrence Period		31 edays	Fri 11/5/10	Mon 12/6/10
376	Final Long-Term Monitoring Plan	P	0 days	Mon 12/6/10	Mon 12/6/10
377					
378	**OU-6 Site 27**		**933 days**	**Wed 2/20/08**	**Sun 9/18/11**
379	Final Record of Decision Approval	P	0 days	Wed 2/20/08	Wed 2/20/08
380	Draft Remedial Design and Remedial Action Work Plan	P	244 edays	Wed 2/20/08	Tue 10/21/08
381	Agency Review		62 edays	Tue 10/21/08	Mon 12/22/08
382	Draft Final Remedial Design and RAWP	P	60 edays	Mon 12/22/08	Fri 2/20/09
383	Agency Review/Concurrence Period		31 edays	Fri 2/20/09	Mon 3/23/09
384	Final Remedial Design and Remedial Action Work Plan	P	0 days	Mon 3/23/09	Mon 3/23/09
385	Remedial Actions		730 edays	Mon 3/23/09	Wed 3/23/11
386	Remedial Actions Complete		0 days	Wed 3/23/11	Wed 3/23/11
387	Draft Remedial Action Report	P	122 edays	Sun 12/19/10	Wed 4/20/11
388	Agency Review		60 edays	Wed 4/20/11	Sun 6/19/11
389	Draft Final Remedial Action Report/RTCs	P	60 edays	Sun 6/19/11	Thu 8/18/11
390	Agency Review/Concurrence Period		31 edays	Thu 8/18/11	Sun 9/18/11
391	Final Remedial Action Report	P	0 days	Sun 9/18/11	Sun 9/18/11
392	Draft Long-Term Monitoring Plan	P	122 edays	Sun 12/19/10	Wed 4/20/11

ID	Task Name	Primary or Secondary	Duration	Start	Finish
393	Agency Review		60 edays	Wed 4/20/11	Sun 6/19/11
394	Draft Final Long-Term Monitoring Plan/RTCs	P	60 edays	Sun 6/19/11	Thu 8/18/11
395	Agency Review/Concurrence Period		31 edays	Thu 8/18/11	Sun 9/18/11
396	Final Long-Term Monitoring Plan	P	0 days	Sun 9/18/11	Sun 9/18/11
397					
398	**OU-6 Site 28**		**1176 days**	**Fri 10/12/07**	**Mon 4/16/12**
399	Final Record of Decision Approval	P	0 days	Fri 10/12/07	Fri 10/12/07
400	Bench Testing		90 edays	Thu 11/15/07	Wed 2/13/08
401					
402	Draft Pilot Test Work Plan	s	174 edays	Tue 1/1/08	Mon 6/23/08
403	Agency Review		53 edays	Mon 6/23/08	Fri 8/15/08
404	Final Pilot Test Work Plan/Responses to Comments	s	45 edays	Fri 8/15/08	Mon 9/29/08
405	Pilot Test Fieldwork		32 edays	Thu 10/30/08	Mon 12/1/08
406					
407	Draft Remedial Design and Remedial Action Work Plan	P	126 edays	Wed 4/16/08	Wed 8/20/08
408	Agency Review		62 edays	Wed 8/20/08	Tue 10/21/08
409	Draft Final Remedial Design and Draft Final RAWP	P	62 edays	Tue 10/21/08	Mon 12/22/08
410	Agency Review/Concurrence Period		30 edays	Mon 12/22/08	Wed 1/21/09
411	Final Remedial Design and Remedial Action Work Plan	P	0 days	Wed 1/21/09	Wed 1/21/09
412	Remedial Action		729 edays	Wed 1/21/09	Thu 1/20/11
413	Remedial Actions Complete		0 days	Thu 1/20/11	Thu 1/20/11
414	Draft Remedial Action Report	P	120 edays	Thu 1/20/11	Fri 5/20/11
415	Agency Review		60 edays	Fri 5/20/11	Tue 7/19/11
416	Draft Final Remedial Action Report/RTCs	P	62 edays	Tue 7/19/11	Mon 9/19/11
417	Agency Review/Concurrence Period		30 edays	Mon 9/19/11	Wed 10/19/11
418	Final Remedial Action Report	P	0 days	Wed 10/19/11	Wed 10/19/11
419	Draft Long-Term Monitoring Plan	P	120 edays	Tue 7/19/11	Wed 11/16/11
420	Agency Review		61 edays	Wed 11/16/11	Mon 1/16/12
421	Draft Final Long-Term Monitoring Plan/RTCs	P	60 edays	Mon 1/16/12	Fri 3/16/12
422	Agency Review/Concurrence Period		31 edays	Fri 3/16/12	Mon 4/16/12
423	Final Long-Term Monitoring Plan	P	0 days	Mon 4/16/12	Mon 4/16/12
424					
425	**Site 30**		**770 days**	**Thu 8/24/06**	**Thu 8/6/09**
426	Revised Draft RI Addendum	P	453 edays	Thu 8/24/06	Tue 11/20/07
427	Agency Review		104 edays	Tue 11/20/07	Mon 3/3/08
428	Draft Final RI Addendum / RTCs	P	101 edays	Mon 3/3/08	Thu 6/12/08
429	Agency Review/Concurrence Period		39 edays	Thu 6/12/08	Mon 7/21/08
430	Final RI Addendum	P	0 days	Mon 7/21/08	Mon 7/21/08
431	Draft Proposed Plan	P	8 edays	Mon 7/21/08	Tue 7/29/08
432	Agency Review		29 edays	Tue 7/29/08	Wed 8/27/08
433	Draft Final Proposed Plan/RTCs	P	33 edays	Wed 8/27/08	Mon 9/29/08
434	Proposed Plan Preparation	P	39 edays	Mon 9/29/08	Fri 11/7/08
435	Public Meeting and Public Comment Period		31 edays	Fri 11/7/08	Mon 12/8/08
436	Draft Record of Decision	P	91 edays	Mon 12/8/08	Mon 3/9/09
437	Agency Review		60 edays	Mon 3/9/09	Fri 5/8/09
438	Draft Final Record of Decision/RTCs	P	60 edays	Fri 5/8/09	Tue 7/7/09
439	Agency Review/Concurrence Period		30 edays	Tue 7/7/09	Thu 8/6/09
440	Final Record of Decision Approval	P	0 days	Thu 8/6/09	Thu 8/6/09
441					

ID	Task Name	Primary or Secondary	Duration	Start	Finish
442	**Site 31**		**176 days**	**Thu 1/24/08**	**Fri 9/26/08**
443	Draft Record of Decision (NFA)	P	99 edays	Thu 1/24/08	Fri 5/2/08
444	Agency Review		62 edays	Fri 5/2/08	Thu 7/3/08
445	Draft Final Record of Decision/RTCs	P	55 edays	Thu 7/3/08	Wed 8/27/08
446	Agency Review/Concurrence Period		30 edays	Wed 8/27/08	Fri 9/26/08
447	Final Record of Decision Approval (NFA)	P	0 days	Fri 9/26/08	Fri 9/26/08
448					
449	**Site 32**		**1506 days**	**Fri 1/11/08**	**Mon 10/21/13**
450	Final FS Report (original site boundary)	P	0 days	Fri 1/11/08	Fri 1/11/08
451					
452	Draft Work Plan for Rad Surface Scan	S	60 edays	Fri 10/24/08	Tue 12/23/08
453	Agency Review		38 edays	Tue 12/23/08	Fri 1/30/09
454	Final Work Plan for Rad Scan / Comment Resolution	S	31 edays	Fri 1/30/09	Mon 3/2/09
455	Fieldwork for Rad Surface Scan		91 edays	Mon 3/2/09	Mon 6/1/09
456	Draft Rad Scan Tech Memo	S	60 edays	Mon 6/1/09	Fri 7/31/09
457	Agency Review		31 edays	Fri 7/31/09	Mon 8/31/09
458	Final Rad Scan Tech Memo / Comment Resolution	S	30 edays	Mon 8/31/09	Wed 9/30/09
459	Revised Draft RI/FS	P	150 edays	Mon 4/27/09	Thu 9/24/09
460	Agency Review		60 edays	Thu 9/24/09	Mon 11/23/09
461	Draft Final RI/FS / Responses to Comments	P	60 edays	Mon 11/23/09	Fri 1/22/10
462	Agency Review / Concurrence		31 edays	Fri 1/22/10	Mon 2/22/10
463	Final RI/FS	P	0 days	Mon 2/22/10	Mon 2/22/10
464	Draft Proposed Plan	P	60 edays	Mon 2/22/10	Fri 4/23/10
465	Agency Review		30 edays	Fri 4/23/10	Sun 5/23/10
466	Draft Final Proposed Plan/RTCs	P	30 edays	Sun 5/23/10	Tue 6/22/10
467	Proposed Plan Preparation	P	31 edays	Tue 6/22/10	Fri 7/23/10
468	Public Meeting and Public Comment Period		30 edays	Fri 7/23/10	Sun 8/22/10
469	Draft Record of Decision	P	90 edays	Sun 8/22/10	Sat 11/20/10
470	Agency Review		62 edays	Sat 11/20/10	Fri 1/21/11
471	Draft Final Record of Decision/RTCs	P	60 edays	Fri 1/21/11	Tue 3/22/11
472	Agency Review/Concurrence Period		31 edays	Tue 3/22/11	Fri 4/22/11
473	Final Record of Decision Approval	P	0 days	Fri 4/22/11	Fri 4/22/11
474	Preliminary Remedial Design and Draft Remedial Action Work Plar	P	280 edays	Fri 4/22/11	Fri 1/27/12
475	Agency Review		60 edays	Fri 1/27/12	Tue 3/27/12
476	Draft Final Remedial Design and Draft Final RAWP	P	62 edays	Tue 3/27/12	Mon 5/28/12
477	Agency Review/Concurrence Period		30 edays	Mon 5/28/12	Wed 6/27/12
478	Final Remedial Design and Remedial Action Work Plan	P	0 days	Wed 6/27/12	Wed 6/27/12
479	Remedial Actions		300 edays	Wed 6/27/12	Tue 4/23/13
480	Remedial Actions Complete		0 days	Tue 4/23/13	Tue 4/23/13
481	Draft Remedial Action Report	P	120 edays	Mon 1/21/13	Tue 5/21/13
482	Agency Review		61 edays	Tue 5/21/13	Sun 7/21/13
483	Draft Final Remedial Action Report/RTCs	P	61 edays	Sun 7/21/13	Fri 9/20/13
484	Agency Review/Concurrence Period		31 edays	Fri 9/20/13	Mon 10/21/13
485	Final Remedial Action Report	P	0 days	Mon 10/21/13	Mon 10/21/13
486	Draft Long-Term Monitoring Plan	P	120 edays	Mon 1/21/13	Tue 5/21/13
487	Agency Review		61 edays	Tue 5/21/13	Sun 7/21/13
488	Draft Final Long-Term Monitoring Plan/RTCs	P	61 edays	Sun 7/21/13	Fri 9/20/13
489	Agency Review/Concurrence Period		31 edays	Fri 9/20/13	Mon 10/21/13
490	Final Long-Term Monitoring Plan	P	0 days	Mon 10/21/13	Mon 10/21/13

ID	Task Name	Primary or Secondary	Duration	Start	Finish
491					
492	**Site 34**		**1157 days**	**Thu 5/8/08**	**Mon 10/15/12**
493	Final RI Report	P	0 days	Thu 5/8/08	Thu 5/8/08
494					
495	Draft Data Gap Work Plan/SAP	S	98 edays	Mon 6/30/08	Mon 10/6/08
496	Agency Review		30 edays	Mon 10/6/08	Wed 11/5/08
497	Final Data Gap Work Plan/ SAP/ Resolve Comments	S	30 edays	Wed 11/5/08	Fri 12/5/08
498	Data Gap Fieldwork		18 edays	Fri 12/5/08	Tue 12/23/08
499					
500	Draft FS Report	P	108 edays	Tue 12/23/08	Fri 4/10/09
501	Agency Review		60 edays	Fri 4/10/09	Tue 6/9/09
502	Draft Final FS Report/RTCs	P	59 edays	Tue 6/9/09	Fri 8/7/09
503	Agency Review/Concurrence Period		31 edays	Fri 8/7/09	Mon 9/7/09
504	Final FS Report	P	0 days	Mon 9/7/09	Mon 9/7/09
505	Draft Proposed Plan	P	91 edays	Mon 9/7/09	Mon 12/7/09
506	Agency Review		30 edays	Mon 12/7/09	Wed 1/6/10
507	Draft Final Proposed Plan/RTCs	P	30 edays	Wed 1/6/10	Fri 2/5/10
508	Proposed Plan Preparation	P	45 edays	Fri 2/5/10	Mon 3/22/10
509	Public Meeting and Public Comment Period		30 edays	Mon 3/22/10	Wed 4/21/10
510	Draft Record of Decision	P	90 edays	Wed 4/21/10	Tue 7/20/10
511	Agency Review		60 edays	Tue 7/20/10	Sat 9/18/10
512	Draft Final Record of Decision/RTCs	P	62 edays	Sat 9/18/10	Fri 11/19/10
513	Agency Review/Concurrence Period		32 edays	Fri 11/19/10	Tue 12/21/10
514	Final Record of Decision Approval	P	0 days	Tue 12/21/10	Tue 12/21/10
515	Preliminary Remedial Design and Draft Remedial Action Work Plar	P	150 edays	Tue 12/21/10	Fri 5/20/11
516	Agency Review		60 edays	Fri 5/20/11	Tue 7/19/11
517	Draft Final Remedial Design and Draft Final RAWP	P	60 edays	Tue 7/19/11	Sat 9/17/11
518	Agency Review/Concurrence Period		31 edays	Sat 9/17/11	Tue 10/18/11
519	Final Remedial Design and Remedial Action Work Plan	P	0 days	Tue 10/18/11	Tue 10/18/11
520	Remedial Actions		182 edays	Tue 10/18/11	Tue 4/17/12
521	Remedial Actions Complete		0 days	Tue 4/17/12	Tue 4/17/12
522	Draft Remedial Action Report	P	122 edays	Sat 1/14/12	Tue 5/15/12
523	Agency Review		60 edays	Tue 5/15/12	Sat 7/14/12
524	Draft Final Remedial Action Report/RTCs	P	62 edays	Sat 7/14/12	Fri 9/14/12
525	Agency Review/Concurrence Period		30 edays	Fri 9/14/12	Sun 10/14/12
526	Final Remedial Action Report	P	0 days	Sun 10/14/12	Sun 10/14/12
527	Draft Long-Term Monitoring Plan	P	122 edays	Sat 1/14/12	Tue 5/15/12
528	Agency Review		60 edays	Tue 5/15/12	Sat 7/14/12
529	Draft Final Long-Term Monitoring Plan/RTCs	P	62 edays	Sat 7/14/12	Fri 9/14/12
530	Agency Review/Concurrence Period	P	31 edays	Fri 9/14/12	Mon 10/15/12
531	Final Long-Term Monitoring Plan		0 days	Mon 10/15/12	Mon 10/15/12
532					
533	**Site 35**		**754 days**	**Wed 5/28/08**	**Tue 4/19/11**
534	Proposed Plan Preparation	P	0 edays	Wed 5/28/08	Wed 5/28/08
535	Public Comment Period		31 edays	Wed 5/28/08	Sat 6/28/08
536	Draft ROD	P	91 edays	Mon 6/30/08	Mon 9/29/08
537	Agency Review for Record of Decision		60 edays	Mon 9/29/08	Fri 11/28/08
538	Draft Final Record of Decision/RTCs	P	90 edays	Fri 11/28/08	Thu 2/26/09
539	Agency Review/Concurrence Period		32 edays	Thu 2/26/09	Mon 3/30/09

ID	Task Name	Primary or Secondary	Duration	Start	Finish
540	Final Record of Decision Approval	P	0 days	Mon 3/30/09	Mon 3/30/09
541	Preliminary Remedial Design and Draft Remedial Action Work Plan	P	150 edays	Mon 3/30/09	Thu 8/27/09
542	Agency Review		61 edays	Thu 8/27/09	Tue 10/27/09
543	Draft Final Remedial Design and Draft Final RAWP	P	60 edays	Tue 10/27/09	Sat 12/26/09
544	Agency Review/Concurrence Period		31 edays	Sat 12/26/09	Tue 1/26/10
545	Final Remedial Design and Remedial Action Work Plan	P	0 days	Tue 1/26/10	Tue 1/26/10
546	Remedial Actions		270 edays	Tue 1/26/10	Sat 10/23/10
547	Remedial Actions Complete		0 days	Sat 10/23/10	Sat 10/23/10
548	Draft Remedial Action Report	P	122 edays	Wed 7/21/10	Sat 11/20/10
549	Agency Review		60 edays	Sat 11/20/10	Wed 1/19/11
550	Draft Final Remedial Action Report/RTCs	P	60 edays	Wed 1/19/11	Sun 3/20/11
551	Agency Review/Concurrence Period		30 edays	Sun 3/20/11	Tue 4/19/11
552	Final Remedial Action Report	P	0 days	Tue 4/19/11	Tue 4/19/11
553	Draft Long-Term Monitoring Plan	P	122 edays	Wed 7/21/10	Sat 11/20/10
554	Agency Review		60 edays	Sat 11/20/10	Wed 1/19/11
555	Draft Final Long-Term Monitoring Plan/RTCs	P	60 edays	Wed 1/19/11	Sun 3/20/11
556	Agency Review/Concurrence Period		30 edays	Sun 3/20/11	Tue 4/19/11
557	Final Long-Term Monitoring Plan	P	0 days	Tue 4/19/11	Tue 4/19/11
558					
559	**FED-1A, -2B, and -2C**		**342 days**	**Mon 12/10/07**	**Wed 4/1/09**
560	Draft Site Inspection Report	S	172 edays	Mon 12/10/07	Fri 5/30/08
561	Agency Review		61 edays	Fri 5/30/08	Wed 7/30/08
562	Draft Final Site Inspection Report/RTCs	S	62 edays	Wed 7/30/08	Tue 9/30/08
563	Draft Final Site Inspection Report	S	90 edays	Tue 12/2/08	Mon 3/2/09
564	Agency Review/Concurrence Period		30 edays	Mon 3/2/09	Wed 4/1/09
565	Final Site Inspection Report	S	0 days	Wed 4/1/09	Wed 4/1/09
566					
567	**BASEWIDE COMMUNITY RELATIONS PLAN**		**258 days**	**Fri 9/19/08**	**Wed 9/16/09**
568	2009 Draft Community Relations Plan Update	P	180 edays	Fri 9/19/08	Wed 3/18/09
569	Agency Review		61 edays	Wed 3/18/09	Mon 5/18/09
570	Draft Final Community Relations Plan / Resolve Comments	P	60 edays	Mon 5/18/09	Fri 7/17/09
571	Agency Review/Concurrence and Community Review		31 edays	Fri 7/17/09	Mon 8/17/09
572	2009 Final Community Relations Plan Update	P	30 edays	Mon 8/17/09	Wed 9/16/09
573					
574	**BASEWIDE GROUNDWATER MONITORING REPORT**		**226 days**	**Fri 5/2/08**	**Mon 3/16/09**
575	2008 Draft Annual Groundwater Monitoring Report	S	167 edays	Fri 5/2/08	Thu 10/16/08
576	Agency Review		60 edays	Thu 10/16/08	Mon 12/15/08
577	2008 Draft Final Groundwater Monitoring Report	S	60 edays	Mon 12/15/08	Fri 2/13/09
578	Agency Review/Concurrence Period		31 edays	Fri 2/13/09	Mon 3/16/09
579	2008 Final Groundwater Monitoring Report	S	0 days	Mon 3/16/09	Mon 3/16/09

BASEWIDE ACTIVITIES

Each year, the BRAC Cleanup Team (BCT) determines whether an update to the Community Relations Plan (CRP) is appropriate. No update was warranted for 2007 or 2008. The CRP will be updated in 2009 starting with community and regulatory agency involvement starting in September 2008.

Basewide groundwater monitoring results are compiled and reported annually in the form of a Basewide Annual Groundwater Report. The Navy will submit a draft of the report in October 2008.

OPERABLE UNIT 1

Current Status: OU-1 includes Site 6 (Building 41 – Aircraft Intermediate Maintenance Facility), Site 7 (Building 459 – Navy Exchange Service Station), Site 8 (Building 114 – Pesticide Storage Area), Site 14 (Former Fire Training Area), Site 15 (Buildings 301 and 389 – Former Transformer Storage Area), and Site 16 (C-2 CANS Area – Shipping Container Storage). The Record of Decision (ROD) recommending no further action for Site 15 was approved in May 2006. The ROD for Site 14 was approved in January 2007 and recommends no further action for soil and active treatment of VOCs in groundwater. The Site 14 Final Remedial Design and Remedial Action Work Plan (for groundwater) is scheduled for submittal in October 2008. Remedial action for Site 14 groundwater commenced in September 2008 with agency approval.

The Final ROD for Sites 6, 7, 8, and 16 was submitted in October 2007. The preferred alternative for soil remediation for Sites 6, 7, 8, and 16 is sampling and excavation with off-site disposal. The preferred alternative for groundwater remediation for Sites 6 and 16 (no CERCLA action is proposed for groundwater at Sites 7 and 8) is treatment to remediation goals using in-situ chemical oxidation, accelerated bioremediation, monitored natural attenuation, and institutional controls. The Draft-Final Remedial Design/Remedial Action Work Plan is scheduled for submittal in January 2009.

OPERABLE UNIT 2A

Current Status: OU-2A includes Site 9 (Building 410 – Paint Stripping Facility), Site 13 (Former Oil Refinery), Site 19 (Yard D-13 – Hazardous Waste Storage), Site 22 (Building 547 – Former Service Station), and Site 23 (Building 530 – Missile Rework Operations). A Draft Feasibility Study (FS) was submitted for agency review in September 2005, and comments were received in March 2006. As part of the comments, the agencies requested data gap sampling and a revised FS. Data gap sampling was conducted from August 2007 through May 2008 with a draft tech memo report scheduled for submittal in September 2009. Based upon comments received on the Draft FS, a new Human Health Risk Assessment and revised Draft FS will be prepared for OU-2A. The Revised Draft FS is expected to be submitted in April 2009.

OPERABLE UNIT 2B

Current Status: OU-2B includes Site 3 (Abandoned Fuel Storage Area), Site 4 (Building 360 – Aircraft Engine Facility), Site 11 (Building 14 – Engine Test Cell), and Site 21 (Building 162 – Ship Fitting and Engine Repair). Data gap sampling was conducted from August 2007 through May 2008 with a draft tech memo report expected out in September 2009. A zero-valent iron (ZVI) pilot test will be conducted at the oil-water separator located at Site 4 near Building 163 in January-February 2009. The findings of the data gap investigation and the pilot test will be incorporated into a Revised Draft FS for these sites in January 2009.

OPERABLE UNIT 2C

Current Status: OU-2C consists of Site 5 (Building 5 – Aircraft Rework Facility), Site 10 (Building 400 – Missile Rework Operations), and Site 12 (Building 10 – Power Plant). RI actions started in 1991 with the eventual identification of four groundwater plumes. Since that time, several removal actions and treatability studies have significantly reduced chemical concentrations in soil and groundwater. These removal actions include steam-enhanced extraction at Plume 5-4 conducted in 1999; a full-scale dense non-aqueous phase liquid (DNAPL) source removal action via six-phase heating completed at Plume 5-1 in 2004; and full-scale six-phase heating conducted in phases at Plume 5-3. Plume 5-3 treatment consists of Phase I completed in February 2007, Phase II completed in February 2008, and Phase III currently in construction. The phase III work is currently suspended while the Time-Critical Removal Action (TCRA) for the storm/sewer lines is conducted in the area. If no radiological contamination is found during the TCRA, phase III groundwater treatment will begin in November 2008. Supplemental RI fieldwork was completed in May 2007 and a Draft RI (Revision 1) report was submitted in April 2008. The Final RI report is expected in September 2008. A Draft FS is expected out in January 2009.

A Final Time-Critical Removal Action (TCRA) Memorandum and Work Plan for removal of remaining radiologically-impacted storm/sewer lines was submitted in June 2008. TCRA fieldwork started in January 2008 and is scheduled to be complete in April 2009.

OPERABLE UNIT 3

Current Status: OU-3 consists of Site 1, which includes the 1943 – 1956 Disposal Area, surrounding paved and unpaved areas, surrounding shoreline, a former firing range berm, and former burn area. A Draft ROD was submitted for agency review in April 2007. A TCRA commenced in February 2007 and a trenching investigation of the former waste disposal area was conducted in August-September 2007. The TCRA fieldwork was completed in June 2008 with findings indicating that soil at Site 1, adjacent Site 32, and areas to the east and south are impacted with low levels of radium-226. A change in closure strategy involving delineation of the radium-226-impacted soil and incorporating the newly identified areas and portions of Site 1 into Site 32 is underway. Portions of Site 1 that will be moved to Site 32 are Areas 2a, 3a, and 3b. A Draft-Final ROD for Site 1, describing the change in strategy and removal of certain areas, is planned for release in October 2008

The preferred alternatives for soil remediation for the following areas are: Area 1 – excavation, off-site disposal, and radiological and munitions and explosives of concern screening at the former burn area (Area 1b), soil cover at the former disposal area (Area 1a) and, wetlands mitigation plan, and institutional controls (ICs) throughout; Area 2b – pavement maintenance and ICs; Area 4 – removal, screening, and off-site disposal; Area 5 – confirmation sampling, hot spot relocation, and ICs; Areas 5 and 1b – removal of radium-226-impacted waste; and Area 1a – cover/cap remaining waste. The preferred alternative for groundwater remediation is in-situ chemical oxidation, monitored natural attenuation, long-term monitoring, and ICs. The Preliminary Remedial Design and Draft Remedial Action Work Plan is expected in December 2008.

OPERABLE UNIT 4A

Current Status: OU-4A consists of Site 2, the West Beach Landfill and Wetlands. The Revised Draft Final FS was issued in April 2007. A radiological survey and removal action was conducted at the shoreline areas and at the former location of the radioactive waste storage shack in the summer of 2007 as part of the Site 1/2/32 TCRA. The Final FS was held up to resolve regulatory comments and was issued in September 2008.

OPERABLE UNIT 4B

Current Status: OU-4B consists of Site 17 (Seaplane Lagoon) and Site 24 (Piers 1 and 2 Sediments). The Final ROD for Site 17 was submitted in November 2006. The preferred alternative for contaminated sediment at Site 17 is dredging, dewatering, and disposal at a permitted off-site waste disposal facility. A combined Preliminary Remedial Design/Draft Remedial Action Work Plan was submitted in October 2007. The Site 17 Remedial Design was finalized in July 2008 and the Draft-Final Remedial Action Work Plan is expected to be completed (by a different contractor) in January 2009. Remedial action is expected to be conducted March through September 2009.

In accordance with the Site 17 ROD, and prior to conducting dredging, a TCRA will be conducted to remove the construction debris piles located at the north side of Site 17. The Final TCRA Action Memorandum and Work Plan were issued in September 2008. TCRA fieldwork started in September 2008 and will end in October 2008.

A Final RI for Site 24 was issued in August 2007. A Final FS for Site 24 is expected to be issued in September 2008.

OPERABLE UNIT 4C

Current Status: OU-4C consists of Site 20 (Oakland Inner Harbor), the offshore portion of Site 28

(Todd Shipyard), and 29 (Skeet Range). A Final Record of Decision recommending no further action for Site 29 was issued in October 2005. The offshore portion of Site 28 was integrated with Site 20. The Site 20 Final ROD recommending no further action is expected in October 2008.

OPERABLE UNIT 5

Current Status: OU-5 consists of the groundwater plume beneath portions of Site 25, Site 30, and Site 31 and adjacent FISCA areas (OU-5/IR02). The Final ROD was issued in September 2007. The preferred alternative for groundwater remediation is biosparging with soil vapor extraction (SVE), nutrient/microorganism enhancement, monitored natural attenuation, and institutional controls. The Final Remedial Design/Remedial Action Work Plan is expected out in September 2008. Remedial action is expected to begin in October 2008 with a duration of approximately 2 years.

Site 25 is the former North Village Housing and Estuary Park. The Site 25 Final ROD for soil was issued in October 2007. In addition to the soil remedial excavation that was already conducted, the preferred alternative for Site 25 soil is Institutional Controls. A Final Land Use Control Remedial Design (LUC RD) is expected in December 2008.

OPERABLE UNIT 6

Current Status: OU-6 consists of Site 26 (Western Hangar Zone), Site 27 (Dock Zone), and Site 28 (Todd Shipyard). The Final ROD for Site 26 was signed in August 2006. The selected remedy for Site 26 groundwater is active treatment along with short-term ICs and monitoring. Remedial action was started in July 2008, with agency approval, and the Final Remedial Design and Remedial Action Work Plan is expected out in October 2008. No action was deemed necessary for Site 26 soil.

The Navy prepared a Final ROD for Site 27 in February 2008. The preferred alternative for groundwater remediation for Site 27 is active treatment for the site-wide plume. A Draft Remedial Design/Remedial Action Work Plan is expected out in October 2008. An appendix to the RD/RAWP will include pre-design sampling and a bench test work plan. No action was deemed necessary for Site 27 soil.

The Final ROD for Site 28 was issued October 2007. Bench-scale testing was conducted from November 2007 to February 2008. The Draft Remedial Design/Remedial Action Work Plan, including a pilot test plan, was issued August 2008. The preferred alternative for groundwater remediation is excavation of shallow soil, application of metals immobilization compound, ICs, and monitoring. The preferred alternative for soil is excavation to a depth of 2 feet in designated areas and ICs. Pilot testing will begin in October 2009.

NEWER SITES

Current Status: IR Site 30 (Woodstock Child Development Center and Island High School): The

Final RI Addendum for this soil site was issued in July 2008. The preferred alternative for soil is no further action and the Draft Proposed Plan was also issued in July 2008. The groundwater contamination beneath this site is addressed as part of the OU-5/IR02 groundwater remedial action.

IR Site 31 (Soil at Marina Village (Coast Guard Housing)): The Final RI was submitted in August 2007 with concurrence from the agencies for no further action for soil. The Final ROD for no further action in soil is expected to be issued in September 2008. The groundwater contamination beneath this site is addressed as part of the OU-5/IR02 groundwater remedial action. Site 31 was transferred to the US Coast Guard in April 2008.

IR Site 32 (Northwest Ordnance Storage Area): A Final FS based upon the original boundary of Site 32 was issued in January 2008. A TCRA was completed in June 2008 with findings indicating that soil at Site 1, Site 32, and areas to the east and south are impacted with low levels of radium-226. A change in closure strategy involving delineation of the radium-226-impacted soil and incorporating the newly identified areas and portions of Site 1 into Site 32 is underway. A Draft Work Plan for radiological surface scanning (to identify the new boundary of Site 32) is expected out in December 2008. A Revised Draft RI/FS is expected in April 2009.

IR Site 33 (South Tarmac and Runway Wetlands): This site was identified as a CERCLA site for the purposes of long-range Navy budget planning, but is still in the SI phase of investigation, as part of the FED transfer parcels (discussed below). The decision to formally identify this site in the SMP will be made upon the completion of the FED SI report and based on a determination of whether significant human health and/or ecological risks exist at the site.

IR Site 34 (Former Northwest Shop Area): The Final RI for Site 34 was submitted in May 2008. A work plan for a data gap investigation will be completed in December 2008 with fieldwork starting immediately thereafter. A Draft FS is expected out in April 2009.

IR Site 35 (Areas of Concern in Transfer Parcel EDC-5): The combined Final RI/FS was submitted in April 2007. The public comment period for the Proposed Plan was May 28, 2008 through June 28, 2008 and a Draft ROD is expected out in September 2008. The preferred remedial alternatives for soil include remedial excavations at three Areas of Concern (AOCs). No action is recommended for groundwater at Site 35.

FED Parcels: A Draft Site Inspection (SI) report for transfer parcels FED 1A, 2B, and 2C and IR Site 33 was submitted in May 2008. Resolution of agency comments will be conducted through September 2008. A new contractor must be used to complete the SI report and the Draft-Final version is delayed until March 2009.

ATTACHMENT B-2

LIST OF REPORTS AND CORRESPONDENCE RECEIVED DURING SEPTEMBER 2008

(2 pages)

Restoration Advisory Board
Documents and Correspondence
Received during September 2008

Documents

1. August 2008 (received September 2, 2008), "Fact Sheet, Remedial Action at IR Site 14, Firefighter Training Area, Former Naval Air Station Alameda", Department of the Navy, BRAC Program Management Office West.
2. September 5, 2008, "Replacement Pages for Final Remedial Design, IR Site 17, Seaplane Lagoon, Former NAS Alameda, Alameda Point, Alameda, California", replacement pages and CD (July 31, 2008), prepared by SES-Tech for BRAC Program Management Office West.
3. September 4, 2008, "Draft Final, Remedial Investigation Report for Operable Unit 2C, Alameda Point, Alameda, California, Volumes I, II, and III", prepared by Bechtel Environmental, Inc. for BRAC Program Management Office West.
4. September 2008 (received September 11, 2008), "Revised Draft, Remedial Action Work Plan, Operable Unit 1, Installation Restoration Sites 6, 7, 8, and 16", prepared by Battelle for BRAC Program Management Office West.
5. September 2008 (received September 11, 2008), "Revised Preliminary (90%) Remedial Design, Operable Unit 1, Installation Restoration Sites 6, 7, 8, and 16, Alameda Point, Alameda, California", prepared by Battelle for BRAC Program Management Office West.
6. September 10, 2008, "Final Feasibility Study Report, IR Site 2, West Beach Landfill and Wetlands, Alameda Point, Alameda", prepared by Battelle and Blasland, Boack & Lee, Inc. for BRAC Program Management Office West.
7. September 11, 2008, "Final Work Plan, Time-Critical Removal Action, Installation Restoration Site 17, Construction Debris Piles, Alameda Point, Alameda, California", prepared by Weston Solutions, Inc. for BRAC Program Management Office West.
8. September 11, 2008, "Action Memorandum, CERCLA Time-Critical Removal Action, Installation Restoration Site 17, Construction Debris Piles, Alameda Point, Alameda, California", BRAC Program Management Office West.
9. September 15, 2008, "Draft Final, 2009 Amendment to the Site Management Plan, Alameda Point, Alameda, California", BRAC Program Management Office West.
10. September 17, 2008, "Draft Final, Feasibility Study Report, IR Site 24, Alameda Point, Alameda, California", prepared by Bechtel Environmental, Inc. for BRAC Program Management Office West.
11. September 18, 2008, "Final, Remedial Investigation Report for Operable Unit 2C, Alameda Point, Alameda, California", cover, replacement pages and CD, prepared by Bechtel Environmental, Inc. for BRAC Program Management Office West.

12. September 19, 2008 (received September 22, 2008), "Draft, Technical Memorandum for Data Gap Sampling at Operable Units 2A and 2B", prepared by Tetra Tech EC, Inc. for BRAC Program Management Office West.
13. September 25, 2008, "Final, Sampling and Analysis Plan Addendum #3, (Field Sampling Plan/Quality Assurance Project Plan) Final Sampling and Analysis Plan, Petroleum Corrective Action Areas 3A, 3B, 3C, 5B West, ~~C~~ and 13 East, Alameda Point, California", prepared by Shaw Environmental, Inc. for BRAC Program Management Office West.
14. September 25, 2008, "Draft Addendum #2 to Final Project Plans, Utility Corridor Investigation at Petroleum Corrective Action Area 3, Alameda Point, Alameda, California", prepared by Shaw Environmental Inc. for BRAC Program Management Office West.
15. September 15, 2008(received September 22, 2008), "Draft-Final 2009 Amendment to the Site Management Plan, Alameda Point, Alameda, California, including Responses to Comments", prepared by BRAC Program Management Office West.
16. September 19, 2008 (received September 23, 2008), "Final, Feasibility Study Report, IR Site 24, Alameda Point, Alameda, California, cover, replacement pages and CD", prepared by Bechtel Environmental Inc. for BRAC Program Management Office West.
17. September 29, 2008 (received September 30, 2008), "Re-issuance, Final, Feasibility Study Report, IR Site 24, Alameda Point, Alameda, California", cover, replacement pages and CD, prepared by Bechtel Environmental, Inc. for BRAC Program Management Office West.

Correspondence

1. September 4, 2008, "Draft Pilot Test Work Plan, IR Site 28, Alameda Point", letter from Ms. Anna-Marie Cook, U.S. EPA, Region IX, to Mr. George Patrick Brooks, BRAC Program Management Office West.
2. September 15, 2008, "Draft Final Site Management Plan, Alameda Point, Alameda, California, response to comments", letter from Mr. George Patrick Brooks, BRAC Program Management Office West to Ms. Anna-Marie Cook, Ms. Xuan-Mai Tran, and Ms. Dot Lofstrom.
3. September 29, 2008, "Concurrence with Finding of Suitability to Transfer Public Benefit Conveyance 1 at the Former Naval Air Station Now Referred to as Alameda Point, Alameda, California", letter from Ms. Dot Lofstrom, P. G., DTSC, to Mr. George Patrick Brooks, BRAC Program Management Office West.

ATTACHMENT B-3

RESPONSE TO EVALUATION OF RAB COMMENTS ON SITE-1

(5 pages)

Some Thoughts on Dr. Peter Russell's Evaluation of RAB Comments on Site-1 October 1, 2008

In general, Dr. Russell's evaluation concurs with most of the RAB's comments. We appreciate that he sat down with four of the RAB members and went over his analysis before issuing the document. As an individual, I submit the following thoughts for your consideration.

1. I agree with his conclusion that the Site-1 landfill contents should be properly characterized. This is necessary to fill in data gaps. He proposes to transfer most of Site-1 (except for the burn area and the contaminant plume) to the enlarged Site-32 for further evaluation.
2. I concur that the excavation of the material from the burn area and treatment of the groundwater solvent plume should proceed immediately, before the proposed 200-ft cutback of the shoreline. Otherwise some portion of the contaminant plume would likely be excavated and other portions exposed to bay waters before backfilling is accomplished.
3. There is doubt about whether we can confidently conclude that all of the landfilled wastes have already been excavated or burned. Note that the amount of material excavated by the exploratory trenching represents only about 0.2% of the estimated total volume of the waste cells. If the Navy excavated wastes under the runway area, it seems illogical that they would have excavated the remaining two-thirds of the area for no apparent reason. Also, the exploratory trenching revealed widespread radiological contamination within the cells. One must ask why the radium wouldn't have been removed along with the rest of the wastes if, in fact, all wastes were excavated and moved to Site-2, or incinerated.
4. I still feel that some of the waste cells are adjacent to or very close to the shoreline. Dr. Russell correctly states that the boundary shown on the plot plan is not the site boundary, but rather an RMA boundary. The RMA (radiological management boundary) probably coincides with the exclusion fencing, which is located only a few feet from where the land surface drops off sharply to the beach area. The Navy includes the beach as part of the site and can be 50 to 60 ft wide in certain areas.
5. Dr. Russell characterizes the RAB recommendation as being "that the landfill be completely excavated and hauled off Alameda Island for appropriate disposal". Actually, we recommended excavation, characterization, and removal of the <u>contaminated-portion</u> of the landfill contents, with the inert materials being returned to the excavated area. This is a subtle, but important, distinction.
6. Dr. Russell states, " ...none of the trenches found any landfilled wastes". It is unclear what the definition of "landfilled wastes" is. Certainly the concrete, wood, metal, and other debris found would normally be called construction wastes. I think he is referring to municipal, or household, wastes, because no

cans, broken bottles, newspapers etc. were found. Note that certain toxic metals, PCB's etc. in the soil would not appear any different than clean soil. Also, none of the trenches showed any airplane parts, transformers,engines etc., but these could be in other portions of landfill that weren't sampled. He further distinguishes the contaminated groundwater plume as not being part of the landfill wastes, even though it is mixed with and within the waste cell volume.

7. Dr. Russell didn't address the example of the Connaught Military Landfill near Ottawa, Canada. It appears to show that the Canadian military and environmental authorities have more stringent cleanup standards than are being applied at Alameda Point.

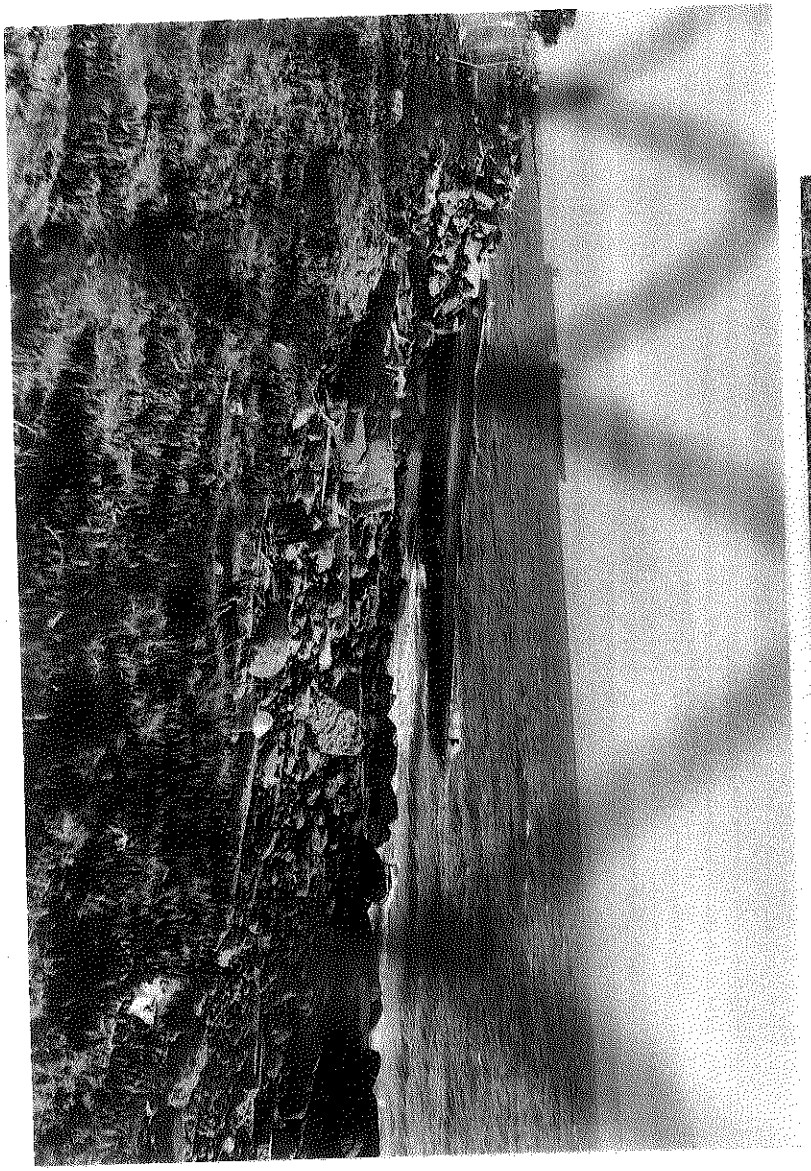
Some photos are attached that show the short distance from the exclusion fence to the shoreline and the exposed barges along the beach. Also, I have included two illustrations from the September RAB meeting that show the Navy's latest concept for cutting back the shoreline and covering the landfill.

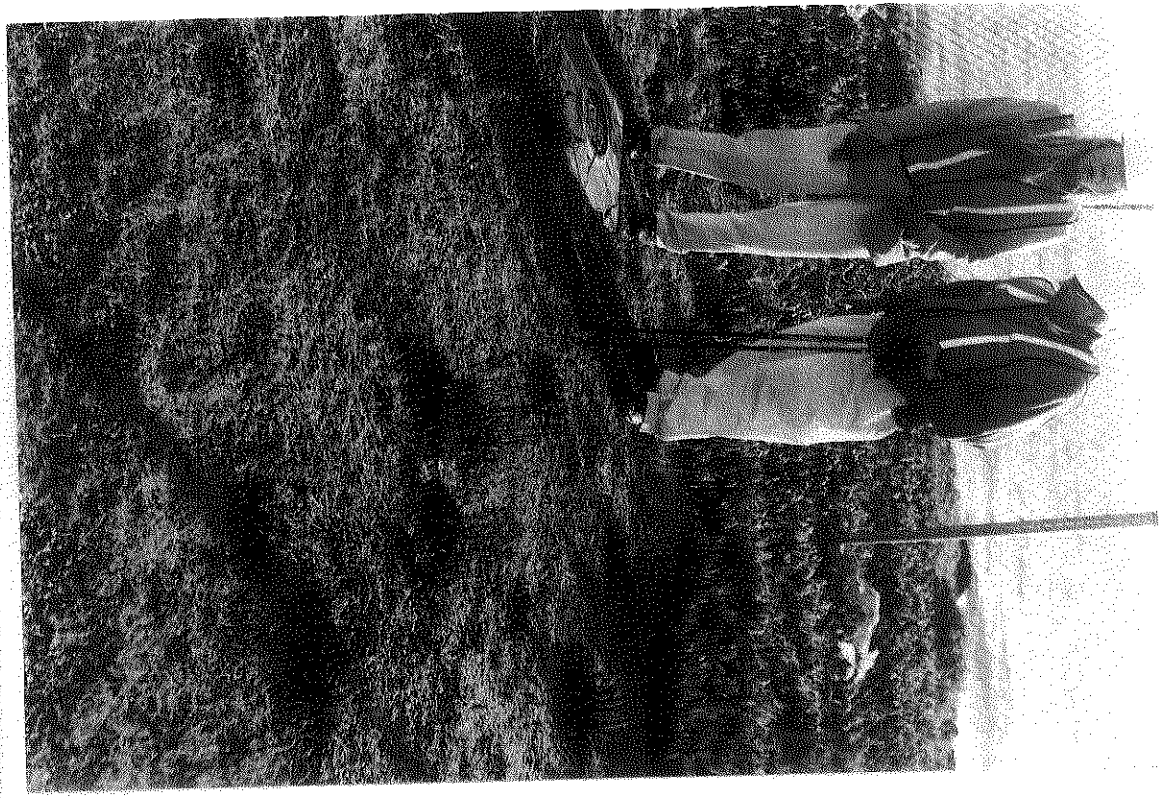
Sincerely,

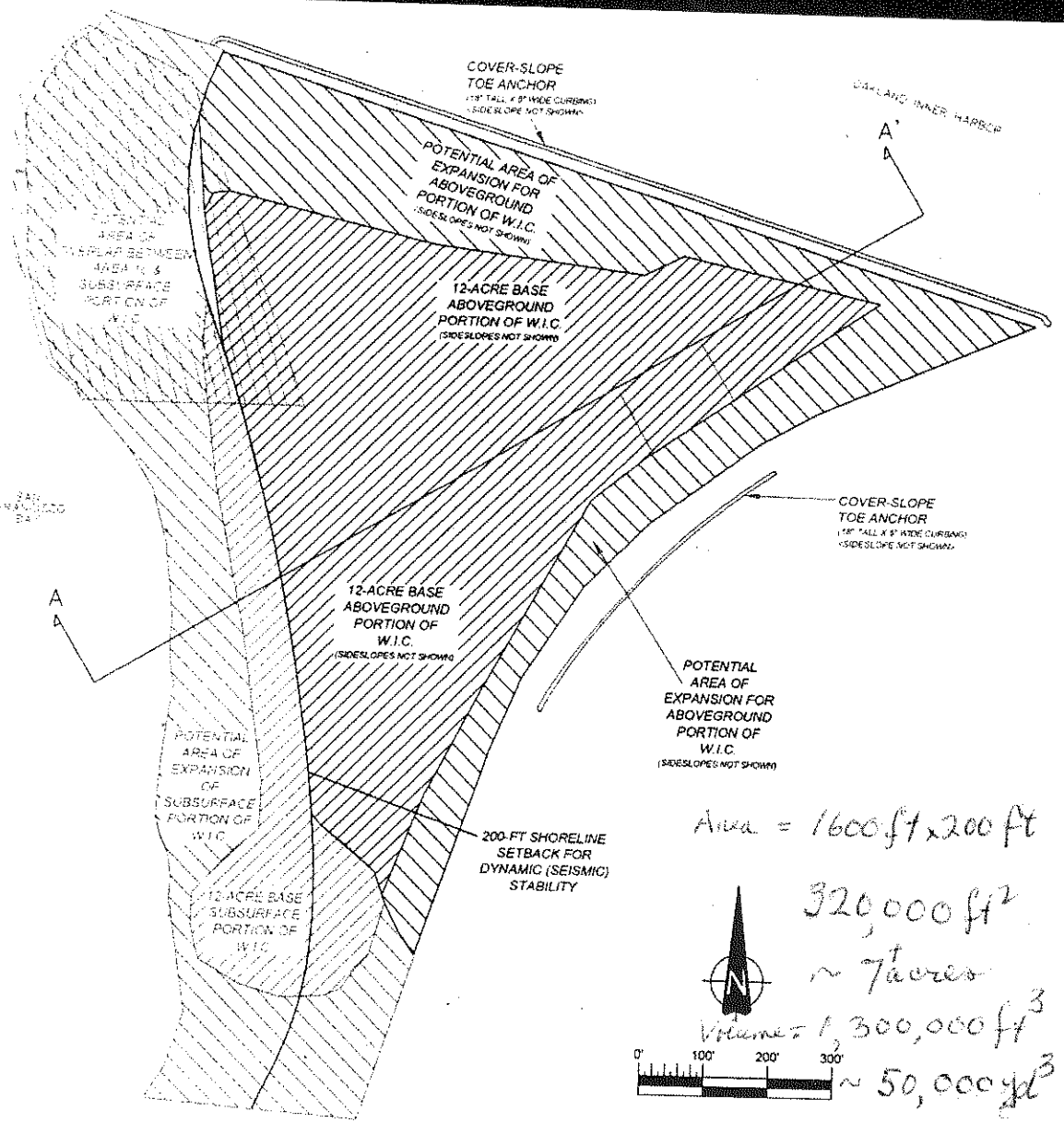
George B Humphreys

George B. Humphreys

PICTURES TAKEN DURING JULY 17, 2008 RAB TOUR OF SITE 1. NOTE PROXIMITY OF RADIOLOGICAL MANAGEMENT AREA FENCE TO SHORELINE DROP-OFF. (10-15 FT). MONITORING WELL NEAR EDGE OF CHLORINATED VOLATILES/ BENZENE-TOLUENE PLUME. NOTE TWO EXPOSED BARGES THAT ARE SITTING ON BEACH AT LOW TIDES. ROW OF BARGES EXTENDS ALL ALONG WESTERN SHORE LINE.







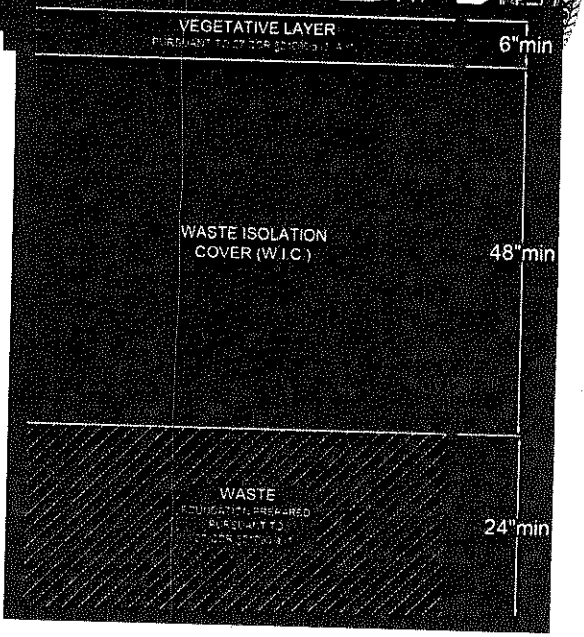
Area = 1600 ft x 200 ft

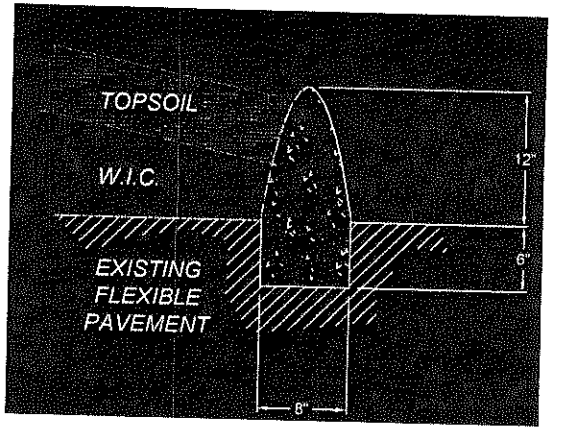
320,000 ft²

~ 7 acres

Volume = 1,300,000 ft³

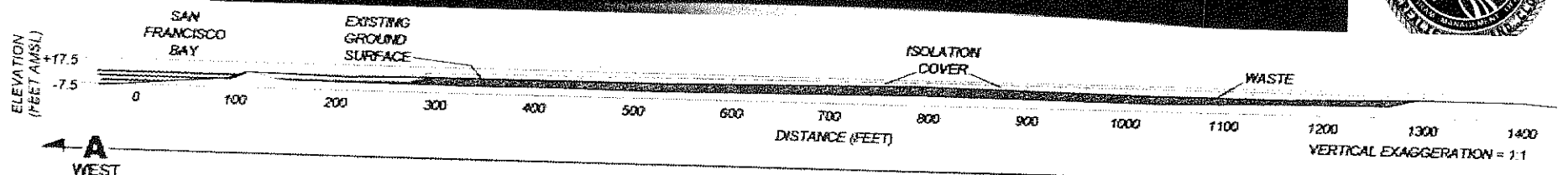
~ 50,000 yd³

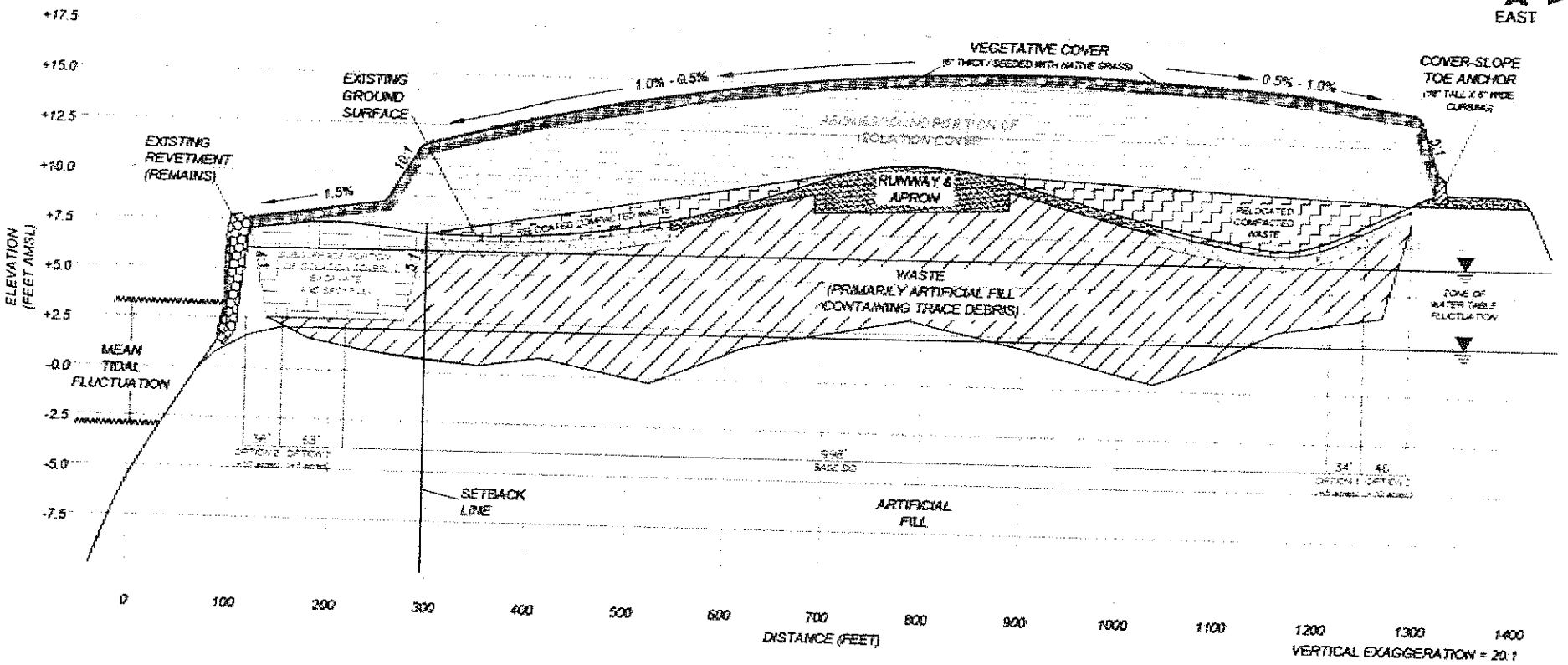




SOURCE: NAVY PRESENTATION SEPT 4, 2008

[redacted]





SOURCE: NAVY PRESENTATION SEPT. 4, 2008

ATTACHMENT B-4

2008 ALAMEDA POINT ACCOMPLISHMENTS

(45 pages)

Alameda Point Accomplishments

RAB Meeting
October 2, 2008

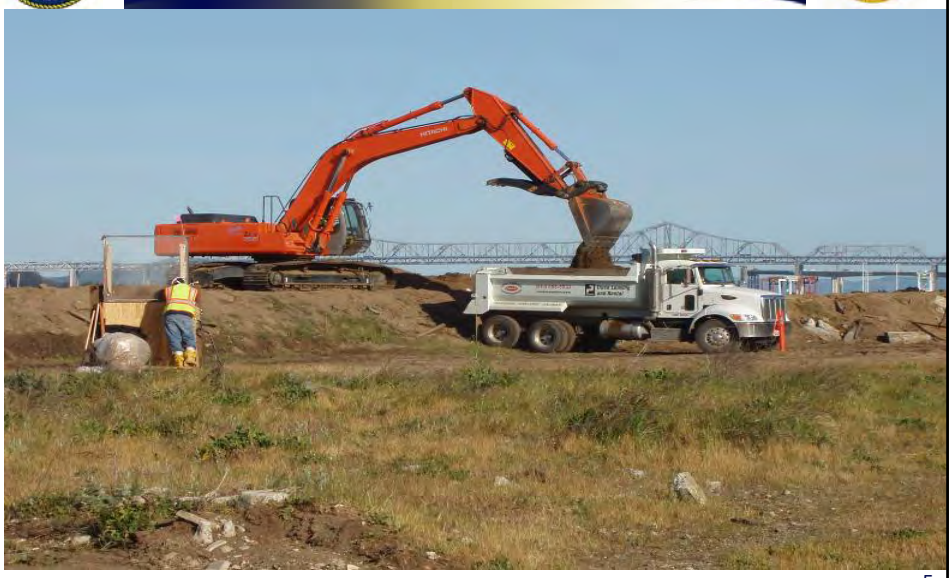
TOP 10 Fiscal Year 2008

1. Site 1, 2, and 32 Removal Action
2. Site 2 Wetlands Water Supply Culvert Repair
3. Site 5 Six Phase Heating – Groundwater Cleanup
4. Site 26 In-situ Chemical Oxidation – Groundwater Cleanup
5. Site 14 In-situ Chemical Oxidation – Groundwater Cleanup
6. Storm Drain Removal – Radium Paint Cleanup
7. Site 17 Debris Piles Removal
8. TERM-1 Aboveground Storage Tank Removal
9. Corrective Action Area 3 – Soil and Groundwater Cleanup
10. Corrective Action Area C – Soil and Groundwater Cleanup

Firing Range Berm Area

Excavating Firing Range Berm

Excavating Firing Range Berm



5

Dust Control

6

Completed Berm Removal

7

Screening Soil for Metal and Debris

8

Screened Soil Free of Debris

9

Sorting Debris to Remove Metal

0

Site 1 Debris Pit Excavation

11

20 mm Projectiles in Concrete

12

Managing Projectile Waste

13

Firing Range Berm Summary

- **Disposed 4,600 cubic yards of lead contaminated soil**
- **Metal was recycled**
- **Concrete was reused / recycled**

14

Sites 1, 2, and 32 Removal Action

Locating Anomalies

16

Collecting Field Screening Data

17

Removing Discrete Item

18

Removing Disseminated Material

19

Receiving Disposal Bins

20

Disposal Bins Ready For Shipment

21

Non-Rad Soil for Disposal

Loading Stockpile for Disposal

23

Site 2 Wetlands Water Supply

Site 2 Culvert Blocked by Storm Debris

25

Assessing Culvert Blockage

26

Improvising a Solution

27

Attaching Cable to Backhoe

28

Pulling Block to Open Culvert

29

Water Supply Restored

30

Six Phase Heating – Soil/Groundwater Cleanup

Building 5 – Six Phase Heating

33

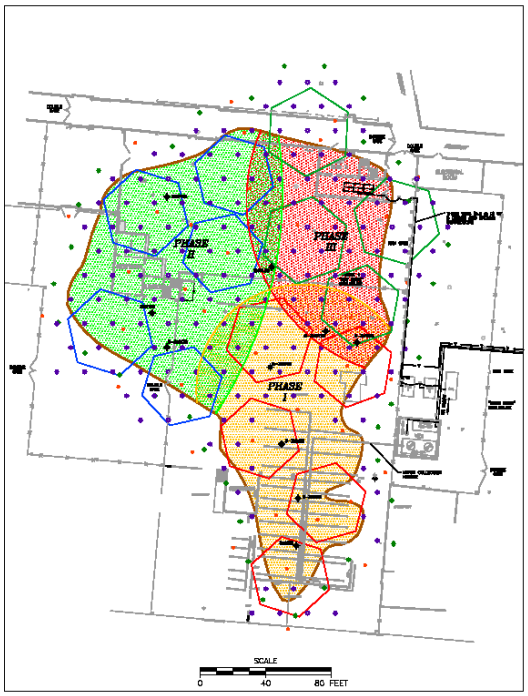
Breaking Concrete for Electrodes

4

Driving Electrode

35

Phase III Expansion



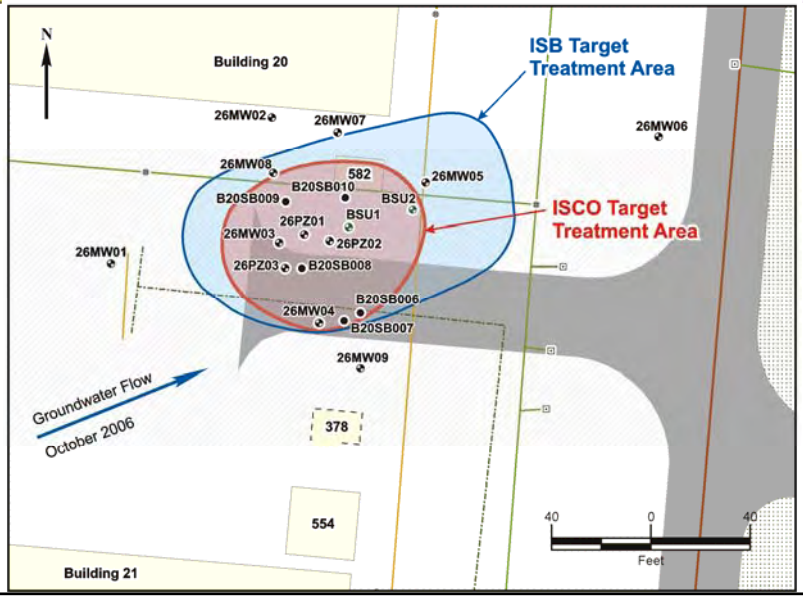
Six Phase Heating Summary

- Groundwater contamination reduced by over 100 times
- 250 pounds removed
- Phase III will address eastern part of plume

37

Site 26 Groundwater Cleanup

Site 26 Groundwater Cleanup



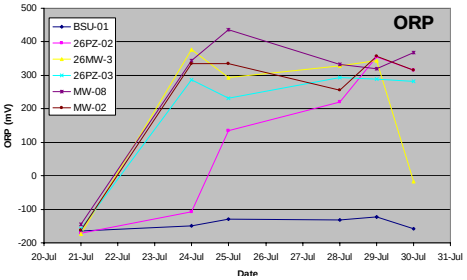
Setting up Injection Equipment

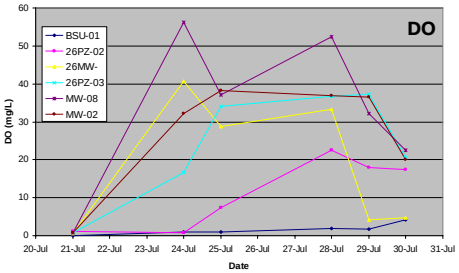
Wellhead Setup

Reagent Tanks

Measuring Field Parameters

Field parameter sampling during injection





Site 26 Summary

- Chlorinated solvent contamination
- 29,000 gallons of reagent injected to destroy contaminants
- Unrestricted Reuse

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Site 14 Groundwater Cleanup

Site 14 Groundwater Cleanup

Before Cleanup Work

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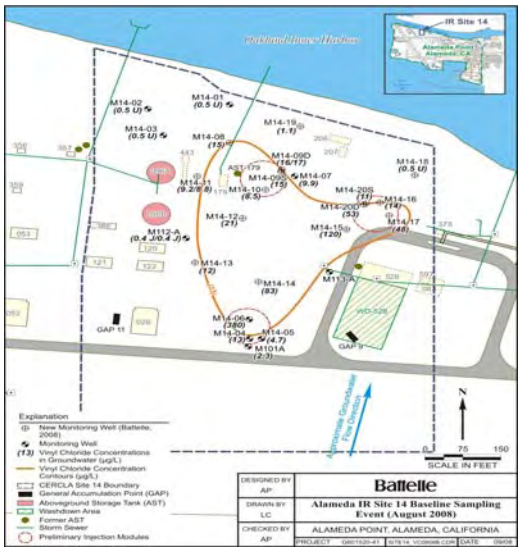
Site 14 Treatment Area



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Re-circulation Equipment Setup

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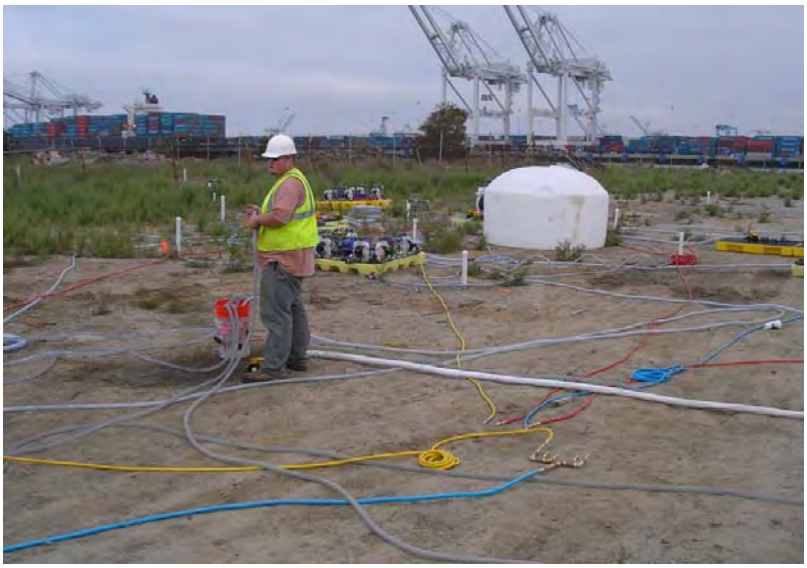
Preparing for Recirculation



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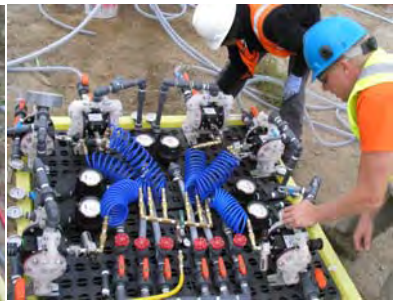
Recirculation Equipment



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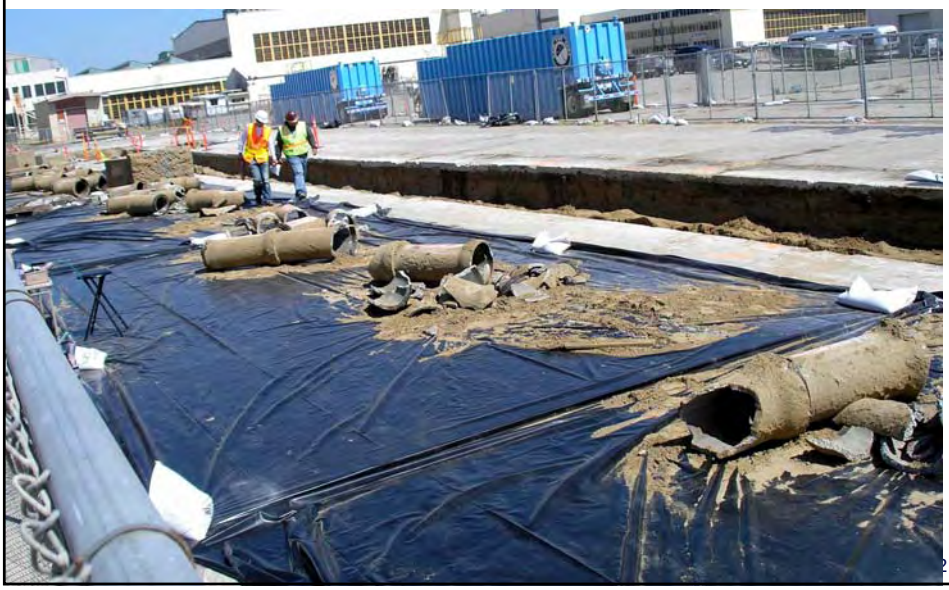
Site 14 Summary

- **Chlorinated solvent contamination**
- **Re-circulated 126,000 gallons of reagent-amended groundwater to destroy contaminants**
- **Unrestricted Reuse**

50

Storm Drain Line Removal Action

Storm Drain Removal



Measuring Background

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Exposing Storm Drain Line

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Excavating Storm Drain Line

Field Screening Equipment

Storm Drain Removal Summary

- Storm drain removal 20 percent complete
- Storm drain replacement 13 percent complete
- 4,100 cubic yards soil excavated for disposal
- Unrestricted reuse

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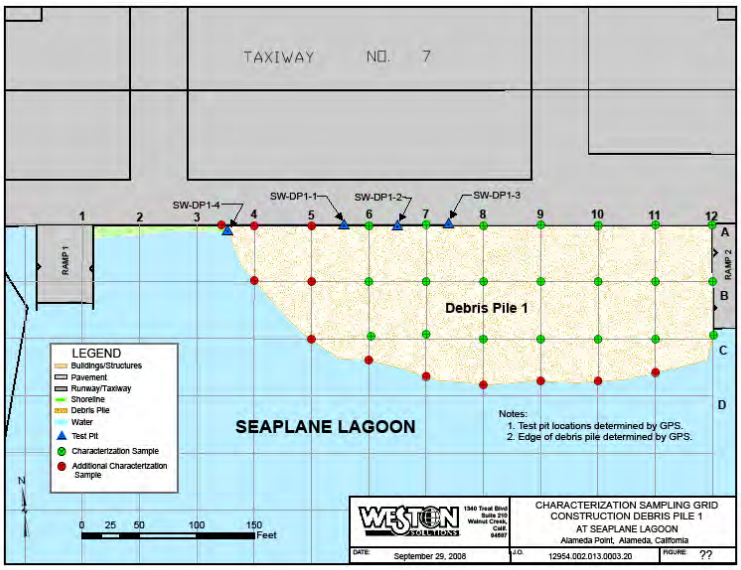
Seaplane Lagoon Debris Piles Removal Action

Seaplane Lagoon Debris Piles Removal



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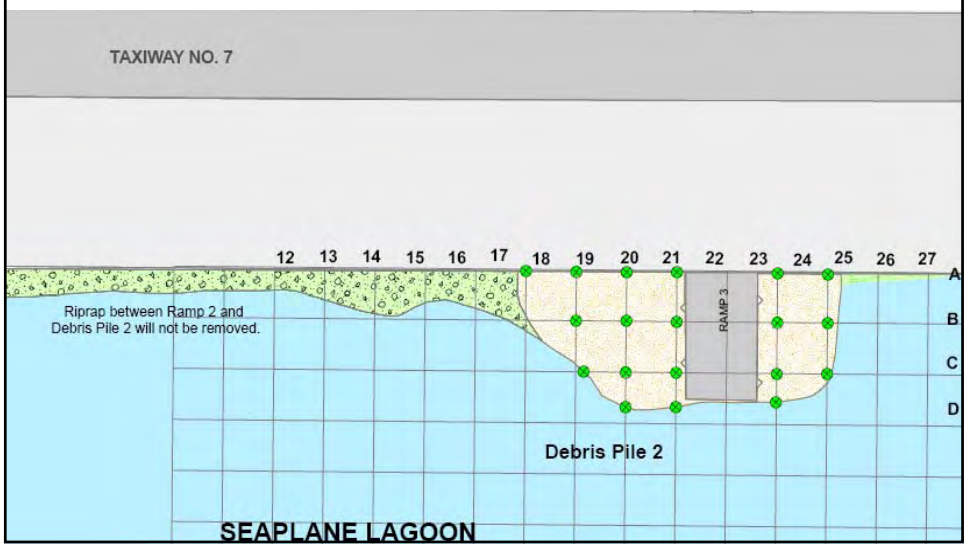
Seaplane Lagoon Debris Piles Removal



Excavating Debris Piles

61

Segregating Debris

Debris Covered Prior to Disposal

Debris Piles Removal Summary

- Work is underway
- About 15,000 – 18,000 cubic yards to be removed
- Debris to be disposed or recycled
- Unrestricted Reuse

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TERM-1 Aboveground Storage Tanks
Demolition and Removal

TERM-1 Demolition Before/After

68

TERM-1 Demolition In Progress

Bringing down the tank walls

69

TERM-1 Demolition In Progress

Preparing metal for recycling

Loading metal on trucks for recycling

70

TERM-1 Demolition In Progress

Removing Blacktop from berm

Removing berm

71

TERM-1 Demolition In Progress

Removing rebar from concrete pad

Rebar to recycle

72

TERM-1 Confirmation Sampling

Sampling beneath removed fuel pipeline

Marking sample locations

73

TERM-1 Demolition Before / After

Removing Refueling Island

74

TERM-1 Tanks Summary

- Demolished and recycled ASTs 342-A and 342-B
- Site has been turned back over to the City of Alameda
- Unrestricted reuse

75

Corrective Action Area 3 Soil/Groundwater Cleanup

Corrective Action Area 3 Expansion

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CAA 3 Treatment System

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CAA 3 Expansion

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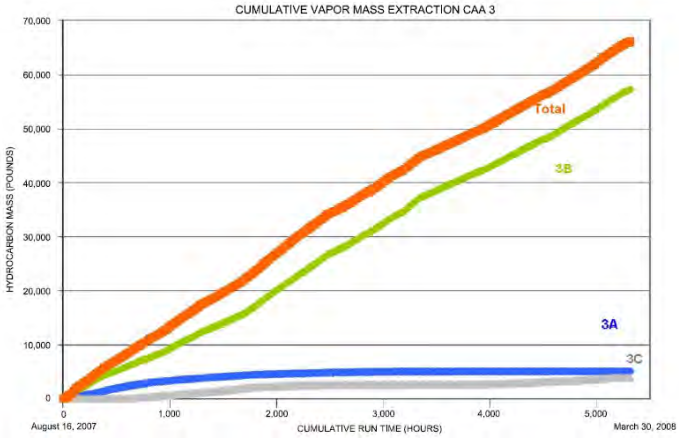
Piping New Wells

80

Repairing Roadway

81

Graph of Contaminant Removal



DEPARTMENT OF THE NAVY
BASE REALIGNMENT AND CLOSURE
PROJECT MANAGEMENT OFFICE – WEST
SAN DIEGO, CALIFORNIA

FIGURE 2

CUMULATIVE VAPOR MASS EXTRACTION
CAA 3
ALAMEDA POINT
ALAMEDA, CALIFORNIA

Shaw Environmental, Inc.

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Corrective Action Area 3 Summary

- Increased effectiveness by expanding treatment system
- Over 60,000 pounds hydrocarbons removed

83

Corrective Action Area C Soil/Groundwater Cleanup

CAA C Petroleum Cleanup

85

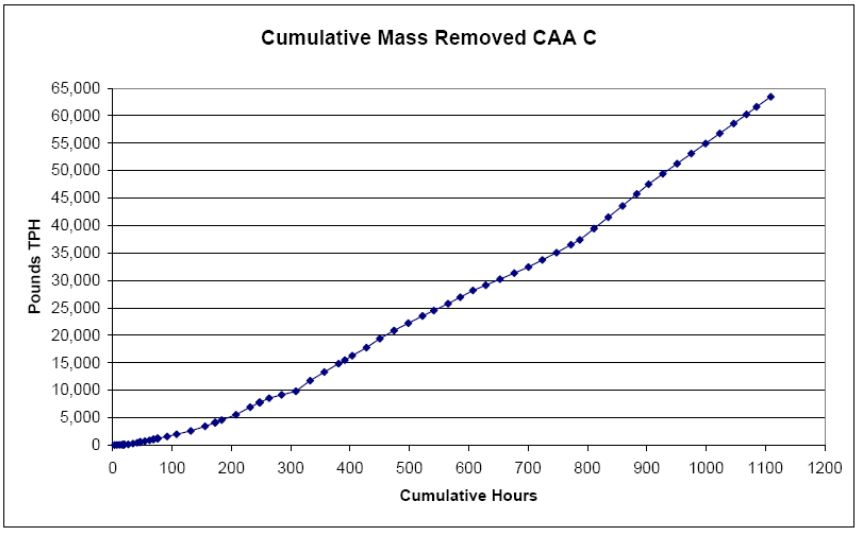
CAA C Petroleum DVE and Biosparge

Installing Wellfield

86

Connecting Wellfield to Treatment System

87



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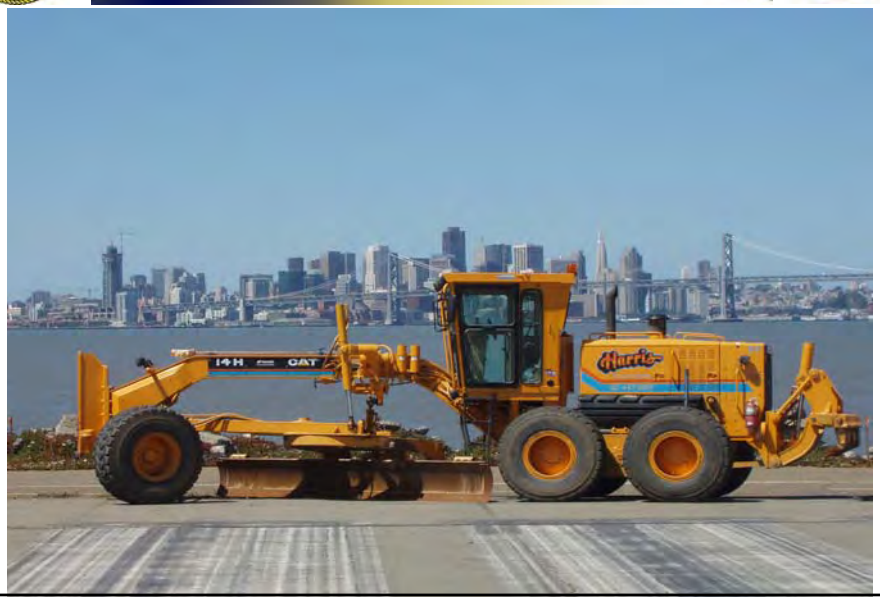
Corrective Action Area C Summary

- Removes and destroys contamination
- Promotes biodegradation
- Over 65,000 pounds removed

89

Questions



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