



DEPARTMENT OF THE NAVY

NAVAL WEAPONS STATION SEAL BEACH
DETACHMENT CONCORD
10 DELTA STREET
CONCORD, CA 94520-5100

IN REPLY REFER TO:
5090
Ser N45WC/0091

Dear Restoration Advisory Board Member:

On April 5, 2004, Naval Weapons Station Seal Beach, Detachment Concord held a Restoration Advisory Board (RAB) meeting. Minutes from the meeting are in enclosure 1.

To improve communications and responsiveness between the community and the station, we welcome you to contact us either by telephone or e-mail. The primary points of contact are:

Margaret C. Wallerstein (562) 626-7838;
margaret.wallerstein@navy.mil

Gregg Smith (562) 626-7215;
gregg.smith@navy.mil

Message Line (925) 246-4020
(Response within 48 hours)

Please contact me if you should have any questions concerning the RAB or other environmental issues.

Sincerely,

A handwritten signature in blue ink, appearing to read "Margaret C. Wallerstein".

MARGARET C. WALLERSTEIN, Ph.D.
Installation Restoration Coordinator
By direction of
the Commanding Officer

Enclosure: 1. April 5, 2004 Meeting Minutes

**FINAL MEETING MINUTES
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH, DETACHMENT CONCORD,
CONCORD, CALIFORNIA
APRIL 5, 2004**

These minutes reflect general issues raised, agreements reached, and action items identified at the Restoration Advisory Board (RAB) meeting for the Naval Weapons Station (NWS) Seal Beach Detachment (SBD) Concord, California. The meeting was held from 6:30 p.m. to 9:00 p.m. on April 5, 2004, at the Adult School in Martinez, California. Agreements and action items are described by topic under Sections I through V and are summarized in Section VI. A list of participants and their affiliations is included as Attachment A, and the meeting agenda is included as Attachment B.

I. WELCOME, INTRODUCTION, AND PUBLIC COMMENT

Welcome and Introductions

RAB co-chair Mary Lou Williams (Concord resident) called the April 5, 2004, RAB meeting to order and initiated a round of introductions for participants. Margaret Wallerstein, PhD (Navy RAB co-chair) introduced Captain Robert Fowler, the new Commanding Officer of NWS Seal Beach. Captain Fowler said that he was glad to participate in the meeting and that he planned to visit the RAB quarterly, if possible.

Ms. Wallerstein reviewed the meeting agenda and asked whether there were any comments or additions. The RAB approved the April 2004 agenda.

Public Comments

Ms. Williams opened the floor to public comment; no public comments were provided.

May 2004 RAB Agenda Approval

Ms. Wallerstein reviewed the proposed May 2004 RAB meeting agenda and asked for comments. Ms. Wallerstein requested that the RAB change the meeting date from May 3, 2004 to May 10, 2004. The RAB agreed that the May 2004 meeting could be changed to May 10, 2004.

Ms. Wallerstein called for a vote to approve the May 10, 2004, RAB agenda. The RAB voted on and approved the agenda.

The revised schedule for 2004 RAB agenda topics are provided in Attachment C.

II. MARCH RAB MEETING MINUTES APPROVAL

Ms. Williams asked for comments on the RAB meeting minutes for March 1, 2004. Igor Skaredoff (Martinez resident) said that the transition from transcripts to meeting minutes was off to a good start. Ms. Williams called for a vote to approve the RAB meeting minutes for March 1, 2004. Gregory Glaser (Concord resident) moved to approve the meeting minutes, and Chris Boyer (Martinez resident) seconded the approval.

Action Item

- The Navy will distribute the final RAB meeting minutes for March 1, 2004.

III. COMMITTEE REPORTS AND ANNOUNCEMENTS

RAB Update

Ms. Wallerstein announced that the Navy has set up a local telephone number so that members of the community can contact the Navy without paying long-distance charges. Ms. Wallerstein said that there is a voicemail service for the local telephone number and that the Navy will check messages every other day. Ms. Williams thanked Ms. Wallerstein and Gregg Smith (Navy public affairs officer) for obtaining the local telephone number. Ms. Wallerstein agreed to send out the new telephone number to the RAB via e-mail. The local telephone number is (925) 246-4020.

Mr. Ray O'Brien (Bay Point resident) noted that the RAB meeting locations have been rotating every month, resulting in some confusion about where the meeting will take place. Mr. O'Brien recommended that the RAB settle on a more permanent location for the monthly meetings. Ms. Wallerstein responded that the Navy is seeking a permanent location for the RAB meetings and that many of the RAB members have been helpful in identifying possible venues. The RAB briefly discussed potential meeting venues, including Concord City Hall in Concord, California, and Shell Hall in Martinez, California.

Action Items

- Ms. Wallerstein will distribute the new Navy local telephone number to the RAB via e-mail.
- Mario Menesini, PhD (Walnut Creek resident) will look into the availability of the Concord City Hall for the monthly RAB meeting.
- Mr. Skaredoff will evaluate the availability of the Shell Hall for the monthly RAB meeting.

Ms. Williams also announced that the former Navy RAB co-chair, Theresa Morley, has recently received two prestigious honors for her support of environmental restoration projects for the Navy, which include the Chief of Naval Operations (CNO) award and the Secretary of the Navy award. Ms. Morley will receive these awards in Washington D.C. in May 2004.

Contra Costa Times Newspaper Article

Mr. Smith discussed the April 4, 2004 *Contra Costa Times* newspaper article that described development plans proposed by the City of Concord for NWS SBD Concord if it is closed in the future. Mr. Smith said that the Secretary of Defense is assessing future needs for military bases throughout the United States. Mr. Smith said that joint use of bases between multiple branches of the military is being considered, as is closure and or enlargement of existing bases. In May 2005, the Secretary of Defense will publish a list of military base needs in the United States, including the bases that will begin the Base Realignment and Closure (BRAC) process. He cautioned the group that numerous false "BRAC lists" have been published on the Internet and emphasized that the official list will be published in May 2005 for a vote by Congress. Congress will either vote to accept the entire list as written or veto the entire list. Once the list is approved by Congress, the President of the United States will either approve or veto the list. At this time, no plan has been determined for the future of NWS SBD Concord, and all options are

under consideration by the Secretary of Defense.

Mr. O'Brien asked whether the Navy has participated in meetings with the city regarding future development plans. Mr. Smith replied that the Navy has not met with elected officials from the city to discuss development plans. Evelyn Freitas (Concord resident) said that the City of Concord will sponsor a study session at 5:00 p.m. on April 6, 2004, to discuss the City's upcoming housing development plans at NWS SBD Concord, should the base become available in the future. Ms. Freitas said that the *Contra Costa Times* article indicated the Navy has been working with the City of Concord for some time. Mr. Smith said that the newspaper article was the first time he has heard about this future base plan. Ms. Freitas asked whether the Navy planned to attend the April 6 meeting; Mr. Smith responded that the Navy was not. Captain Fowler said that the Navy is not allowed to work with other entities on the BRAC process. He added that the Navy has been meeting with the City of Concord to discuss joint use areas of the base only, which is a separate issue. Mr. Boyer suggested that Ms. Freitas discuss the reuse with the Contra Costa County Board of Supervisors at its monthly meeting.

IV. REMEDIAL PROJECT MANAGERS (RPM) UPDATE

Navy Update

Mr. Steve Tyahla (Navy) reviewed the RPM monthly update that was distributed during the RAB meeting (Attachment D). Mr. Tyahla said that he provided the RAB with more background information on each of the update items in this month's RPM update. Mr. Tyahla oriented the group to the tracking sheet for upcoming documents that will be available for review during the next 3 months (see Attachment E), and reviewed March 2004 RPM activities, which included the following:

- Submittal of the draft sampling and analysis plan (SAP) for Site 13; comments are due on May 7, 2004.
- Submittal of the draft feasibility study (FS) for the Litigation Area for review and comment; comments are due on May 18, 2004. Mr. Tyahla noted that this draft FS report is the topic of this meeting's presentation, and that the document has not yet been reviewed by the Agencies.
- The regular monthly RPM meeting on March 19, 2004.

Mr. Boyer asked whether the Navy has responded to U.S. Environmental Protection Agency (EPA) recommendation to sample the groundwater wells in the City of Concord Park, located across the boundary from Site 13. Mr. Tyahla replied that the Navy has requested information from the City of Concord about the wells and will be preparing written responses to all comments received on the draft SAP. He added that the Navy is likely to focus its groundwater quality characterization efforts on base, near the source site, prior to making any decisions for sampling off the base. He said this is particularly true given the low levels of perchlorate detections found in the June 2003 round of groundwater sampling at Site 13.

EPA Update

Phillip Ramsey (EPA) said that he provided the RAB with copies of the letters EPA has written to the Navy during March 2004 on the following topics:

- **Site Management Plan (SMP):** EPA sent the Navy a letter on March 11, 2004, granting a request on an extension for the SMP. He added that the SMP is scheduled for an annual review and update in June 2004, and he expects that there will be only very minor revisions during the update since the Navy and agencies have been coordinating closely on the SMP.

- **Draft SAP Addendum for Sites 22, 27, and 29:** On March 31, 2004, EPA provided the Navy a conditional approval letter on the draft SAP addendum for Sites 22, 27, and 29.
- **Site 13 Draft SAP:** On April 1, 2004, EPA provided a letter to the Navy with comments on the draft SAP for additional groundwater characterization at Site 13. EPA is requesting that groundwater samples be collected from the off site irrigation wells located in a City of Concord Park located just off base. He added that if the Navy does not agree to collect the samples, the EPA would attempt to conduct groundwater sampling.

Draft FS for the Litigation Area: EPA is currently dissatisfied with the conclusions of the Navy's draft supplemental FS for the Litigation Area. EPA feels that the cooperative work of multiple agencies was not acknowledged in the draft FS. Mr. Ramsey also said that the draft FS is currently biased toward a no further action (NFA) remedy, and that the agencies are concerned that additional remediation was not recommended in the draft FS for the Litigation Area. EPA plans to submit comments on the document to the Navy by the end of the review period and will continue to work with the Navy on issues identified on the draft FS.

San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Update

Laurent Meillier provided an update on the SFBRWQCB activities that occurred during March 2004.

- March 8, 2004: SFBRWQCB conducted a site visit to a surface water discharge from NWS SBD Concord at Olivera Road, across from Willow Pass Park. Mr. Meillier conducted the site visit based on community requests for information. He did not collect samples of the water, but noted an approximate flow rate of 1 gallon per minute of non-turbid water; no aquatic invertebrates were visible.
- March 12, 2004: SFBRWQCB conducted a site visit to oversee the removal of two extraction wells and the installation of two monitoring wells at the Port Chicago Highway underground storage tank (UST) site.
- March 19, 2004: Mr. Meillier attended the monthly RPM meeting.
- March 23, 2004: SFBRWQCB attended via teleconference a meeting with representatives of the Navy and neighboring properties of the Litigation Area sites to discuss data sharing.
- March 25, 2004: SFBRWQCB attend the monthly UST RPM meeting. During the UST meeting, the RPMs discussed the need for funding a follow-up investigation at Remedial Action Subsite (RASS) 3, formerly known as the Getty Oil Facility. At the meeting, the Navy noted that funding would not be available until 2010 for a new petroleum program site.
- SFBRWQCB issued comments to the Navy on the following documents:
 - Revised Draft Final Record of Decision for Site 17
 - Draft SAP for Site 13
 - Informal dispute resolution summary letter for sampling at Sites 22, 27, and 29
 - Navy's response the July 3 emergent chemical letter.

Mr. O'Brien inquired about the nature of the teleconference call with the Department of Toxic Substances Control (DTSC), and Mr. Meillier explained that the call was held to discuss how to share data with the private companies that neighbor the Litigation Area in the future.

Action Item

- Mr. Meillier will distribute the SFBRWQCB RPM update to the RAB via e-mail.

Off-Site Groundwater Discussion

Mr. Glaser expressed concern that contaminated groundwater from on base at Site 13 may be flowing off site, and asked what the Navy would do if off site water is tested in the off-site City of Concord irrigation wells and perchlorate was detected. Ms. Wallerstein responded that the Navy will obtain information about the offsite wells from the City. Mr. Tyahla added that the Navy has not completed its review of EPA comments on the Site 13 SAP; once the review of EPA comments is complete, the Navy will describe how this concern will be addressed. He further explained how investigations first focus near potential sources prior to moving outward. Mr. Ramsey added that perchlorate is a drinking water concern, and that the existing wells are for irrigation. He added that the city could be analyzing samples from the wells already. Ms. Freitas said that the City of Concord and the Navy should investigate the human health risks from the spread of groundwater contamination into the community. Ms. Wallerstein explained that two ongoing investigations have been undertaken to evaluate perchlorate in groundwater to address this concern, one at Site 13, and one at Site 22. Ms. Williams asked if there is a concern of perchlorate absorption through the skin if the community comes into contact with groundwater. Ms. Williams responded stated that the potential exposure pathway to humans would be skin adsorption because the wells are used for irrigation. Mr. Ramsey also said that the levels of perchlorate detected at Site 13 are low; however, not much is known about the human health risk of exposure. Mr. Ramsey added that perchlorate generally is not an ecological concern and it does not volatilize. He added that risk assessments assume that a person is drinking 2 liters of groundwater for 30 years and that most Contra Costa County residents do not use groundwater for drinking; instead, their main source of drinking water is from surface delta water through the Contra Costa Water district. Mr. Meillier also noted that the State of California recently developed its public health goal for perchlorate of 6 parts per billion (ppb); the maximum concentration of perchlorate detected in groundwater at Site 13 is 2 ppb.

Mr. Skaredoff asked about the discharge of water at Olivera Road and whether the Navy is responsible for the quality of water as it moves off site. Ms. Wallerstein explained that that the Navy formerly sampled the discharge regularly as part of a permitted stormwater discharge. Ms. Joanna Canepa (TtEMI) added that sampling at that discharge was discontinued in the late 1990s in cooperation with the Regional Water Quality Control Board, as there were no ongoing upgradient industrial activities that required stormwater discharge permitting.

V. LITIGATION AREA DRAFT SUPPLEMENTAL FS PRESENTATION

Ray Bienert, Ph.D. (TtEMI), and Steve Delhomme (TtEMI) presented an overview of the draft supplemental FS for the Litigation Area and the upcoming milestones in the document review process. The Litigation Area FS presentation is provided at Attachment F. Comments and questions on the presentation are presented below.

Mr. Boyer asked whether any future work at the Litigation Area would occur during the summer when it is dry, and whether there is any time during the year that work cannot continue because of ecological concern for sensitive birds such as the black rail. Mr. Bienert said that work would need to continue during summer when the site is drier, and that care would be taken to avoid construction during breeding seasons for sensitive species. Mr. Ramsey said that the black rail is a year-round resident of the Litigation Area.

Kevin Cornish (Lafayette resident) asked the Navy about the value of preserving the mosquito ditches. Mr. Tyahla responded that he spoke with the Contra Costa County Mosquito Abatement District regarding the functionality of the mosquito ditches. The mosquito ditches are important to preserve to

reduce stagnant water in the area that facilitates mosquito reproduction. Mosquito ditches are also important in reducing risk for mosquito-borne viruses such as the West Nile Virus, which is expected to be a concern in Northern California in the next 6 months or so. Mr. Tyahla said that he was emphatically convinced from his conversation with the Contra Costa County Mosquito Abatement District expert that maintaining the functionality of the ditches is very important.

Mr. Skaredoff asked how the Navy selected the alternatives for remediation of the Litigation Area. Mr. Tyahla reviewed the steps of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) process that led to the supplemental FS for the Litigation Area. The Navy is requesting public comment on the draft supplemental FS by May 18, 2004. Mr. Tyahla clarified and emphasized that no decision on a remedy is truly made until a Record of Decision (ROD) is signed. A remedy is first officially proposed at the Proposed Remedial Action phase of the process. Ms. Canepa also noted that the Litigation Area was acquired by the Navy from private property owners in the 1970s as a buffer zone, and no Navy active operations have occurred on the site other than environmental remediation and monitoring.

Dean McLeod (Bay Point resident) asked whether the Navy will pursue future legal action with the neighbors of the Litigation Area. Mr. Tyahla responded the Navy will involve its legal team in the process, if necessary. Ms. Canepa said that the Navy is currently reviewing the Litigation Area consent decrees and evaluating whether past agreements were fulfilled. Mr. McLeod said that he is concerned that General Chemical Company will escape responsibility for cleanup of the Litigation Area.

Mr. O'Brien asked about Navy security on the Litigation Area and keep trespassers off the site. Mr. Boyer responded that the Contra Costa County Sheriff's Department has increased security on and around the Litigation Area and General Chemical Company to prevent trespass. Mr. Tyahla also said that the Navy will install additional fencing and signage at some portions of the site to prevent trespass, as was recommended in the 5-Year Periodic Review Assessment report for the Litigation Area.

VI. NEXT MEETING AND ACTION ITEMS

The next RAB meeting will occur on May 10, 2004, from 6:30 to 8:30 p.m. at the Willow Pass Community Center in Concord, California.

The following action items and agreements were generated during the April 5, 2004 RAB meeting:

#	Action Item	Target Date for Completion	Completion Date (or Status)
1	The Navy will distribute the final RAB meeting minutes for March 1, 2004.	4/23/04	Completed on 4/30/04
2	Ms. Wallerstein will distribute the new Navy local telephone number to the RAB via e-mail. (925) 246-4020	4/19/04	Update on 5/10/04
3	Mr. Menesini will look into the availability of the City Hall in Concord, California for the monthly RAB meeting.	5/10/04	Completed on 4/23/04
4	Mr. Skaredoff will look into the availability of the Shell Hall in Martinez, California for the monthly RAB meeting.	5/10/04	Completed by Mr. Menesini on 4/23/04

#	Action Item	Target Date for Completion	Completion Date (or Status)
5	Mr. Meillier will distribute the SFBRWQCB RPM update to the RAB via e-mail.	4/19/04	Update on 5/10/04

ATTACHMENT A

**ATTENDEES AND AFFILIATIONS
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

APRIL 5, 2004

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**ATTENDEES AND AFFILIATIONS
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

APRIL 5, 2004

<u>Name</u>	<u>Affiliation</u>	<u>Telephone</u>
Ray Bienert	TtEMI	(415) 222-8296
Beth Byrne	Concord Resident	(925) 686-4185
Harry Byrne	Concord Resident	(925) 686-4185
Joanna Canepa	TtEMI	(415) 222-8362
David Cooper	EPA	(415) 972-3237
Kevin Cornish	RAB member	(925) 229-5540
Steve Delhomme	TtEMI	(713) 520-7667
Gregory Glaser	RAB member	(925) 363-5570
Evelyn Freitas	Concord Resident	(925) 671-9674
Tom Freitas	Concord Resident	(925) 671-9674
Carolyn Hunter	TtEMI	(415) 222-8297
Dean McLeod	Bay Point Resident	None provided
Laurent Meillier	SFBRWQCB	(510) 622-2440
Mario Menesini	RAB member	(925) 935-1168
Richard Pieper	NWS SBD Concord Caretaker	(925) 246-4011
Ray O'Brien	RAB member	(415) 385-9220
Phillip Ramsey	EPA	(415) 972-3006
Igor Skaredoff	RAB member	(925) 229-1371
Steve Tyahla	U.S. Navy, EFA West	(650) 746-7451
Margaret Wallerstein	U.S. Navy, Seal Beach	(565) 626-7838
Mary Lou Williams	RAB Community Co-chair	(925) 685-1415

Notes:

EFA West	Naval Facilities Engineering Command, Engineering Field Activity West
EPA	U.S. Environmental Protection Agency
RAB	Restoration Advisory Board
SFBRWQCB	San Francisco Bay Regional Water Quality Control Board
TtEMI	Tetra Tech EM Inc.

ATTACHMENT B

**AGENDA
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

APRIL 5, 2004

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AGENDA

NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD RESTORATION ADVISORY BOARD MEETING

Monday, April 5, 2004

6:30 p.m. – 8:30 p.m.

Martinez Adult School
600 F Street, Room 20
Martinez, CA 94553

- 6:30 – 6:40 Call to Order
- Welcome
 - Introductions – Capt. Robert W. Fowler
 - Public Comments
 - May Agenda Approval – Approval of Meeting date change
- Lead: Community and Navy Co-chairs
- 6:40 – 6:50 Approval of March 1, 2004 Meeting Minutes
Review Unresolved Business
Lead: Navy Co-chair
- 6:50 - 7:30 Committee Reports/Announcements
- RAB Report
 - Remedial Project Managers' Update (Navy/EPA/DTSC/RWQCB)
 - Draft SAP for Site 13 Groundwater work
- 7:30 – 7:40 Break
- 7:40 – 8:30 Litigation Area Draft FS Report
- 8:30 Adjourn

ATTACHMENT C

**PROPOSED RESTORATION ADVISORY BOARD AGENDAS FOR 2004
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA
APRIL 5, 2004**

(One Page)

PROPOSED RAB AGENDAS FOR 2004

JANUARY	1. Fate and Transport Training presented by Tetra Tech. 2. RPM - Reports on Site 17, 27 and 29
FEBRUARY	1. Site 1 ROD Discussion
MARCH	1. Litigation Area Presentation by Patrick Lynch 2. RPM – Tidal Area Update, ATSDR Update
APRIL	1. Litigation Area Draft FS Report 2. RPM – Draft SAP for Site 13 groundwater work
MAY	1. Draft RI Work Plan for Site 31 2. Litigation Area Draft Post-Remedial Action Monitoring Plan 3. RPM – Site 1 Remedial Design
JUNE	1. Site 22 Revised Draft Supplemental RI 2. RPM - Litigation Area data gaps technical memo
JULY	1. SWMU's 2, 5,7, 18 Draft Final RI 2. Taylor Blvd. Bridge Site 30 Draft FS 3. RPM - Draft Annual SMP Amendment
AUGUST	1. Tidal Area Sites 2, 9, 11 FS 2. RPM
SEPTEMBER	1. Litigation Area Final Monitoring Plan 2. Site 1 Draft RA Work Plan 3. Site 29 Draft ROD
OCTOBER	1. Site 27 Draft ROD 2. Draft RI Work Plan for Site 31 3. RPM
NOVEMBER	1. Litigation Area Draft Proposed Plan 2. RPM
DECEMBER	No Meeting

NEED TO SCHEDULE:

INRMP PRESENTATION
ATSDR PRESENTATION

ATTACHMENT D

**NAVY REMEDIAL PROJECT MANAGER'S UPDATE
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

APRIL 5, 2004

(One Page)



***Navy RPM Update for 5 April 2004 meeting of
Naval Weapons Station Seal Beach, Detachment Concord
Restoration Advisory Board (RAB)***

Prepared by Steve Tyahla, Navy Lead Remedial Project Manager

- Summary of Navy Remedial Project Manager (RPM) Activities since the last RAB Meeting, held on Monday, 1 March 2004.
 - **1 March-** The Navy issued a letter distributing the “*Draft Final Record of Decision Installation Restoration Program Inland Area Site 17, Naval Weapons Station Seal Beach, Detachment Concord, Concord, California (01 March 2004).*” [The comment period ended on 1 April; however, the Navy is anticipating comments from the Agencies that it plans to address in order to finalize this No Further Action ROD.]
 - **3 March-** The Navy issued a letter distributing the “*Final Meeting Minutes, Remedial Project Managers’, Installation Restoration Site 22 Sampling and Analysis Plan Addendum Meeting, Naval Weapons Station Seal Beach, Detachment Concord, Concord, California.*” [That was held on 21 January 2004.]
 - **5 March-** The Navy issued a letter distributing the “*Draft Sampling and Analysis Plan (Field Sampling Plan/Quality Assurance Project Plan) Additional Characterization at Site 13, Naval Weapons Station Seal Beach, Detachment Concord, Concord, California (05 March 2004).*” [This work plan is for the additional assessment of perchlorate in groundwater at Site 13.]
 - **5 March-** The Navy issued a letter to the U.S. EPA requesting numerous extensions to the Site Management Plan (SMP), which is our schedule for the cleanup per the Federal Facility Agreement. [On 11 March, the U.S. EPA issued a letter granting approval of this extension request. Thus, the SMP issued via this letter became the current SMP.]
 - **15 March-** The Navy issued a letter which distributed an enclosure entitled “*Informal Dispute Resolution Summary and Proposed Sampling at the Magazine Area and Installation Restoration Sites 22, 27, and 29 Naval Weapons Station Seal Beach, Detachment Concord, Concord, CA.*” [As stated in the letter, the intent was to provide the Agencies with changes to the 12 December 2003 Draft Final Sampling and Analysis Plan (SAP) for investigating arsenic in soil at Site 22 that it thought would resolve an “informal dispute” with the U.S. EPA based on an informal dispute resolution meeting held between the Navy and Agencies on 21 January 2004. During that meeting, the technical differences were discussed and



essentially resolved. The letter documents those agreements and provided the needed amendments to the 12 December SAP. Based on additional discussions during our regular monthly Project Managers' meeting, the U.S. EPA requested additional changes which the Navy has agreed to make. They focus on the arrangement of soil samples we will collect near our fence line for arsenic analysis.]

- **17 March-** The Navy issued a letter distributing the "*Remedial Project Managers' Meeting Minutes, Naval Weapons Station Seal Beach, Detachment Concord, Concord, California*" that was held on 18 February 2004. [This was our regularly scheduled monthly meeting.]
- **17 March-** The Navy issued a letter to the U.S. EPA finalizing the "Draft Final Amendment to the SMP" per the FFA. [Basically, this "finalization," which is required by the FFA, indicates that the Navy has sufficient funds to perform the work scheduled for the current fiscal year (in this case, fiscal year 04'). Per the FFA, by 15 June of each year, the Navy must produce a "Draft Amendment to the SMP" which eventually gets finalized in this manner once the Navy has determined it has adequate funds to accomplish what the Amendment has scheduled for the current fiscal year. Should there be a funding shortfall, there are steps in the FFA for resolving such shortfalls in consultation with the U.S. EPA and State.]
- **19 March-** The Navy issued a letter distributing the "*Draft Supplemental Feasibility Study Litigation Area, Naval Weapons Station Seal Beach, Detachment Concord, Concord, CA (19 March 2004).*" [This draft Supplemental FS is being briefed to the RAB on 5 April and has not yet gone through regulatory Agency review. The brief to the RAB will be aimed at orienting the RAB members to the report contents.]
- **19 March-** The Navy and Agencies held our regular Monthly RPM meeting.
- **23 March-** The Navy, DTSC, and representatives for Honeywell and General Chemical Corporation met to coordinate data sharing for our sites which are adjacent to one another (Navy's Litigation Area). [This meeting was very beneficial to all of us as it opened up good lines of communication and facilitated our ability to share data that could be helpful to each of our investigations. For example, groundwater level data sharing gives us all a better picture of implied groundwater flow directions.]

ATTACHMENT E

**SIMPLE DOCUMENT TRACKING SHEET
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

APRIL 5, 2004

(One Page)

Document Tracking Schedule for March 2004 through June 2004
Installation Restoration Program
Naval Weapons Station Seal Beach Detachment Concord

Document	Submittal Date*	Agency and RAB Comments Due
March 2004		
Draft sampling and analysis plan for supplemental sampling at Site 13	3/8/04	5/7/04
Revised draft final record of decision for Site 17	3/1/04	4/2/04
Letter to summarize revisions to the draft final sampling and analysis plan addendum for additional sampling at Sites 22, 27, and 29	3/16/04	4/15/04
Draft supplemental feasibility study for Litigation Area sites	3/19/04	5/18/04
April 2004		
Final Site 1 record of decision signature date	TBD	Not applicable; final document
Draft addendum to draft final remedial investigation at Site 30	4/12/04	5/12/04
Draft Litigation Area monitoring plan	4/30/04	6/29/04
May 2004		
Draft remedial design for Site 1 landfill	5/3/04	7/2/04
Draft Site 1 Groundwater Sampling and Analysis Plan	5/14/04	7/13/04
Draft Final Taylor Boulevard Bridge Remedial Investigation	5/27/04	6/28/04
June 2004		
Draft data gaps technical memorandum, Litigation Area sites	6/7/04	8/6/04
Draft sampling and analysis plan for data gaps, Tidal Area Sites 2, 9, and 11	6/10/04	8/9/04
Draft final remedial investigation for SWMUs 2, 5, 7, and 18	6/14/04	8/13/04
Draft SMP Amendment	6/14/04	7/14/04

Notes:

* Date is based March 5, 2004 version of the Site management plan

TBD Submittal date is to be determined.

SWMU Solid waste management unit

Last updated 5/26/2004

ATTACHMENT F

**LITIGATION AREA DRAFT FEASIBILITY STUDY PRESENTATION
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

APRIL 5, 2004

(Fifteen Pages)



**Overview of Draft Litigation Area
Supplemental Feasibility Study
Naval Weapons Station Seal Beach,
Detachment Concord**



4/5/04



Presentation Overview



- **Orientation to Litigation Area Sites and History**

- **Overview of Draft Supplemental FS**
 - Objectives
 - Alternatives evaluated for each study area
 - Slough
 - Mosquito Ditches
 - Nichols Creek

- **Questions and Answers**

4/5/04

2



Litigation Area Ecosystem



- Complex of tidal marshes
- Surrounding upland grasses and riparian areas
- Support significant populations of sensitive species
 - Salt Marsh Harvest Mouse
 - California Black Rail
 - Soft Bird's Beak and other rare plants

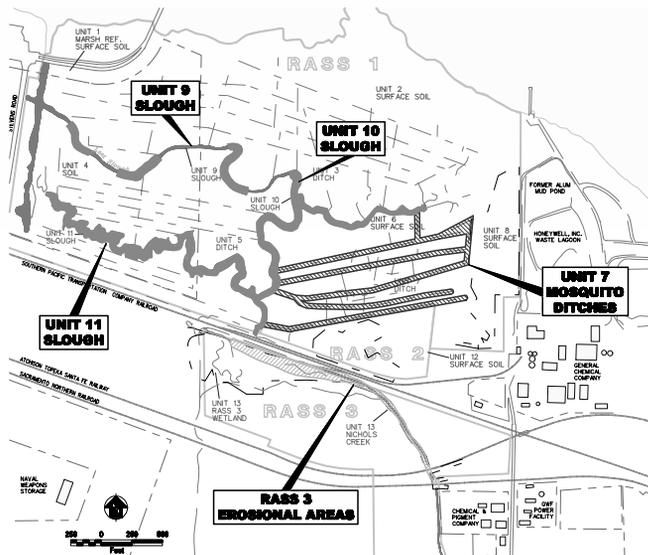


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Focus Areas for Supplemental FS



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Litigation Area Site Chronology



- 1983: Sites identified by Navy
- 1988: Remedial Investigation/ Feasibility Study (RI/FS) completed
- 1989: Record of Decision (ROD) and Remedial Action Plan (RAP) documented selected remedy
- 1991: Pre-remediation monitoring
- 1993-96: Remediation and restoration conducted
- 1995-2000: Post-remediation monitoring
- 2001-2003: First post-remediation five year review
- 2003 to present: Supplemental FS, monitoring plan, and data gaps study

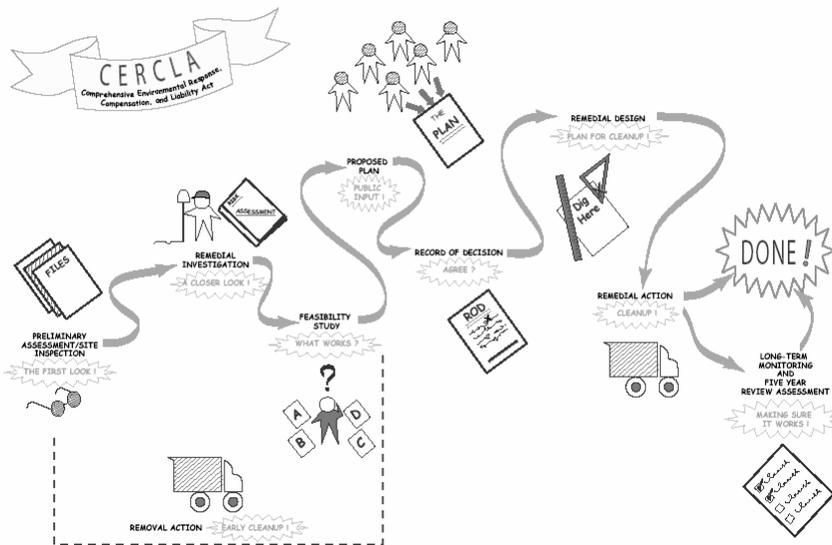
For original remedial action, the most contaminated portion of each site was cleaned up; some contamination was left in place to avoid destruction of sensitive habitat

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CERCLA Process



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Final Five Year Periodic Review Assessment June 30, 2003



Purpose

- Evaluate implementation and effectiveness of selected remedy
- Determine whether additional actions are necessary

Recommendations:

- Conduct data gaps evaluation – draft due June 7, 2004
- Prepare monitoring plan – draft due April 30, 2004
- Conduct supplemental FS to evaluate additional remedial options for portions of the site where either ongoing contaminant migration exists or ecological risk warranted FS evaluation. Areas included in FS
 - Sloughs
 - Unit 7 Mosquito Ditches
 - Nichols Creek



Components of a Feasibility Study Per Guidance



- **Development and Screening of Alternatives**
 - Develop remedial action objectives (RAO), or specific goals for protection of human health and the environment
 - Develop general response actions to meet RAOs
 - Identify volumes or areas to which general response actions might be applied
 - Identify and Screen technologies
 - Assemble technologies into alternatives
- **Detailed Analysis of Alternatives**
 - **Nine evaluation criteria that cover:**
 - Effectiveness of protecting human health and the environment
 - Technical and administrative implementability
 - Cost
 - Acceptability to agencies and community



Threshold Criteria

- Overall protection of human health and the environment
- Compliance with ARARs

Balancing Criteria

- Long-term effectiveness and permanence
- Reduction in toxicity, mobility, or volume through treatment
- Short-term effectiveness
- Implementability
- Cost

Modifying Criteria

- State acceptance
- Community acceptance



- Eliminate or reduce exposure to contaminated sediments above ecological risk thresholds
- Eliminate or reduce mobilization of contaminated sediments above ecological risk thresholds
- Minimize effects of contaminants on the environment
- Comply with applicable or relevant and appropriate requirements (ARARs)
- Evaluate alternatives that are feasible, implementable, and cost effective
- Evaluate benefit of remediation of slough and ditch habitat against destruction of adjacent marsh habitat



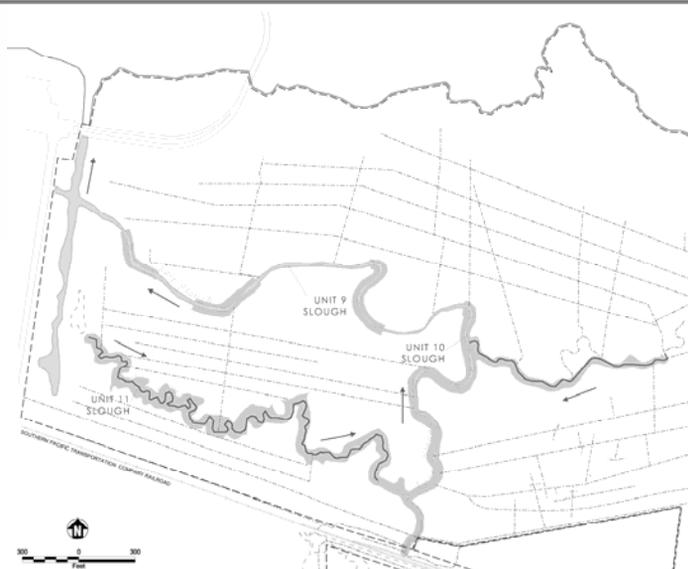
Habitat Impact Issues to Consider



- Depending on the remedial action, complete removal of aquatic habitat and associated biota in the Lost Slough or ditches
- Construction activities including road building will cause severe impacts on adjacent sensitive marsh habitat
- Alteration of the hydrology and geomorphology of the slough and ditches
- Re-contamination of the waterways from upstream on- and off-site sources
- Populations and diversity of existing populations in the slough and ditches may be permanently altered following a remedial action



Sloughs Evaluated in Supplemental FS





View of Site Sloughs



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Remedial Action Objectives or Goals for Slough



Reduce or eliminate exposure to ecological receptors by preventing direct contact with and mobilization of sediments in the Slough Area (parts of Units 9, 10, 11 in RASS 1) that contain concentrations of arsenic, cadmium, copper, lead, and zinc in excess of risk thresholds.

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Alternatives Evaluated for Lost Slough



- **Alternative 1: No action (includes monitoring)***
 - will be revised for draft final FS
- **Alternative 2A: Active removal using conventional excavation**
- **Alternative 2B: Active removal using excavation in Unit 11 and hydraulic dredging in Units 9 and 10**
- **Alternative 3: Physical barrier (12-inch, cement-stabilized, sand cover)**
- **Alternative 4: In-situ solidification/stabilization (S/S)**
- **Alternative 5: Relocation of the Slough**

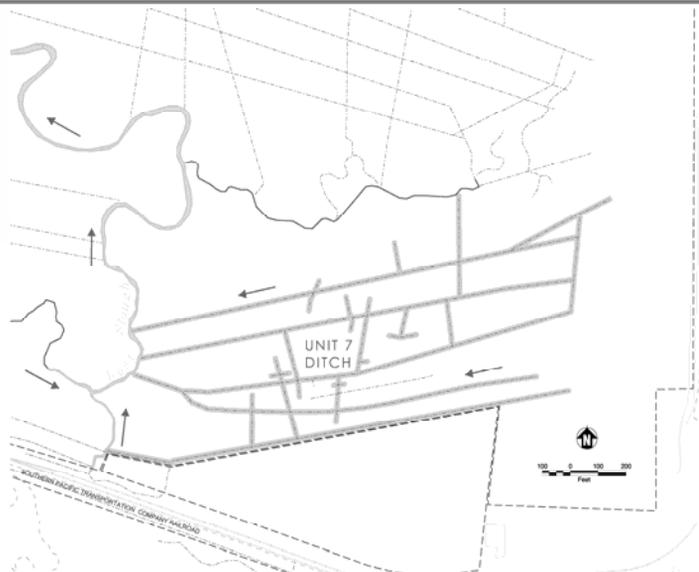


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Unit 7 Mosquito Ditches



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Mosquito Ditch View



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Remedial Action Objectives for the Mosquito Ditches



Reduce or eliminate exposure to ecological receptors by preventing direct contact with and mobilization of sediments in the mosquito ditches and related spurs in Unit 7, RASS 1 that contain concentrations of arsenic, cadmium, copper, lead, and zinc in excess of risk thresholds.

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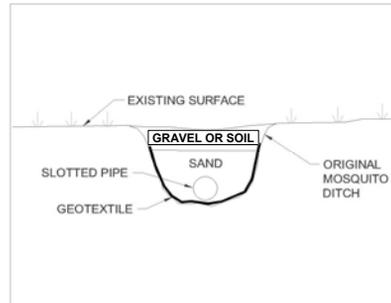
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Alternatives Evaluated for Mosquito Ditches



- **Alternative 1: No action (includes monitoring)***
 - will be revised for draft final FS
- **Alternative 2: Active removal using conventional excavation**
- **Alternative 3: Physical barrier (cement cover)**
- **Alternative 4: In-situ solidification and stabilization (S/S)**
- **Alternative 5: Underground drainage system**
- **Alternative 6: Assisted passive filling**

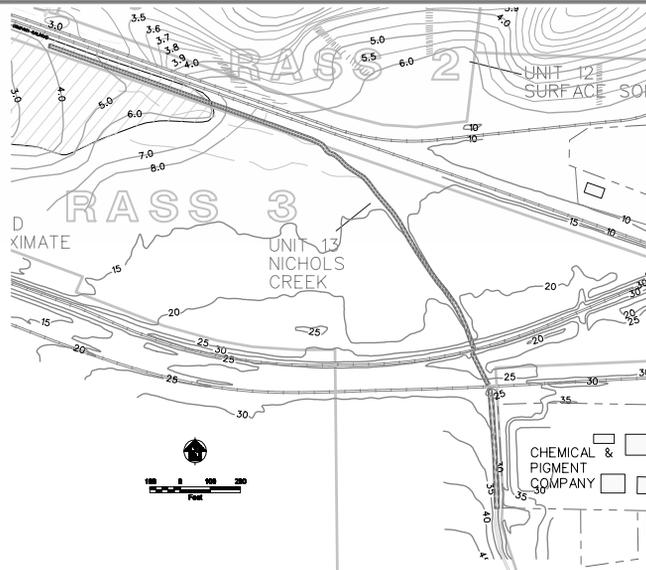


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Nichols Creek Erosional Areas



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Railroad Culvert Outlet into Nichols Creek



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RAO for Nichols Creek Areas with Significant Erosion



Prevent or decrease erosion of the creek bed and banks in the Unit 13 area of Nichols Creek in RASS 3 – to prevent mobilization of sediments with elevated levels of arsenic, cadmium, copper, lead, and zinc.

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Railroad Culvert Discharge Into Nichols Creek



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Alternatives for the Nichols Creek Area



- **Alternative 1: No action (includes monitoring)***
– will be revised for draft final FS
- **Alternative 2: Restore riparian vegetation**
- **Alternative 3: Re-contour creek bed**
- **Alternative 4: Stabilize creek bed**
- **Alternative 5: Channelize creek**
- **Alternative 6: Combine Alternatives 2 and 4: Restore riparian vegetation and stabilize creek bed**



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Environmental Benefits of Active Remediation Versus Habitat Impacts



Secondary evaluation of most feasible alternatives for Sloughs and Ditches compared with no further action alternative. This step was not conducted for Nichols Creek.

- **Used a range of cleanup goals to give best and worst case volume and cost scenarios**
- **Quantified the areas of marsh directly impacted by alternative**
 - Example: 13 acres of road, laydown, and excavation areas on sensitive marsh surface and slough necessary for slough excavation
- **Considered uncertainties associated with cleanup and restoration**
 - Example: Potential loss of critical habitat for endangered species and questionable success of marsh restoration projects



Environmental Benefits of Active Remediation Versus Habitat Impacts – Slough



NO ACTION

- Pros:**
- High value marsh undisturbed
- Cons:**
- No risk reduction
 - High value slough contaminated with metals
 - Continued exposure to species in contact with the slough

EXCAVATION AND DREDGING

- Pros:**
- Potential risk reduction
 - Slough may be restored to higher habitat value
- Cons:**
- Potential loss of critical habitat for endangered species
 - Invasive species
 - Potential for permanent and short term habitat loss
 - Increased bioavailability during construction
 - Hydrologic changes – can have long-term impacts to distribution of flora and fauna
 - Restoration of equivalent habitat value uncertain
 - Incidental takes



Environmental Benefits of Active Remediation Versus Habitat Impacts – Mosquito Ditches



NO ACTION

- Pros:**
- Mosquito ditches continue to function
 - Marsh undisturbed
- Cons:**
- No risk reduction
 - No reduction in contaminant mobility
 - Potential continued exposure to species

EXCAVATION

- Pros:**
- Potential risk reduction
 - Reduced contaminant migration
- Cons:**
- Extreme disturbance of marsh surface
 - Invasive species
 - Potential for permanent habitat loss
 - Potential loss of endangered species
 - Increased bioavailability during construction
 - Hydrologic changes

PHYSICAL BARRIER

- Pros:**
- Risk reduction
 - Reduced contaminant migration
- Cons:**
- West Nile Virus
 - Disturbance of marsh surface
 - Invasive species
 - Potential for permanent habitat loss
 - Potential loss of endangered species
 - Increased bioavailability during construction
 - Hydrologic changes



Overall Summary



- Draft Supplemental FS prepared that focused on areas recommended from the final 5-year periodic review assessment
- Identified RAOs
- Identified general response actions and technologies
- Identified and screened appropriate remedial alternative technologies
- Assembled alternatives from technologies
- Reviewed alternatives against 9 CERCLA criteria
- Conducted secondary evaluation of habitat impacts versus benefits of action (unique aspect of this FS)
- Agency and RAB comments are due May 18, 2004

Questions

