



TETRA TECH EM INC.

July 27, 2007

Dear RAB Members,

On behalf of the Navy, enclosed please find the May 2, 2007 final RAB meeting minutes for your information and records.

If there are any questions regarding the enclosed minutes, please contact Carolyn Hunter at (415) 222-8297 or Carolyn.hunter@ttemi.com.

Sincerely,

Carolyn Hunter
Community Relations Specialist
Tetra Tech EMI

FINAL
MEETING MINUTES
RESTORATION ADVISORY BOARD
INLAND AREA ENVIRONMENTAL RESTORATION PROGRAM
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD
CONCORD, CALIFORNIA
MAY 2, 2007

These minutes reflect general issues raised, agreements reached, and action items identified at the Restoration Advisory Board (RAB) meeting for the Inland Area Environmental Restoration (ER) Program at Naval Weapons Station Seal Beach Detachment Concord (NAVWPNSTA Seal Beach Det Concord), California. The meeting was held from 6:30 p.m. to 8:45 p.m. on May 2, 2007, at the Concord Police Department Community Meeting Room in Concord, California. Agreements and action items are described by topic under Sections I through VI and are summarized in Section VII. A list of participants and their affiliations is included as Attachment A, and the meeting agenda is included as Attachment B.

I. WELCOME, INTRODUCTIONS, PUBLIC COMMENT, AND AGENDA APPROVAL

Welcome and Introductions

The RAB Community Co-Chair, Mary Lou Williams (Concord resident) called the RAB meeting to order and initiated a round of introductions for attendees.

Rick Weissenborn (U.S. Department of the Navy [Navy]) announced he has been reassigned to another Navy Base Realignment and Closure (BRAC) team and Darren Newton (Navy) will be the Navy RAB Co-Chair and BRAC Environmental Coordinator (BEC) for NAVWPNSTA Seal Beach Det Concord Inland Area.

Public Comments

Ms. Williams opened the floor to public comments. No public comments were offered at this time.

July 2007 RAB Agenda Approval

Ms. Williams reviewed the proposed agenda for the July 11, 2007 RAB meeting.

The Navy plans to provide the following presentations at the July 11, 2007 RAB meeting:

- Military Munitions Response Program Update
- Solid Waste Management Units 2, 5, 7, and 18 Groundwater Pilot Study Field Work Update

Ms. Williams asked the RAB to approve the July 2007 agenda. The RAB voted to approve the July 11, 2007 meeting agenda.

II. MARCH 2007 RAB MEETING MINUTES APPROVAL

Mr. Weissenborn asked the RAB for comments on the minutes from the meeting held on March 7, 2007. No comments were received on the March 7, 2007 RAB meeting minutes. The Navy will finalize the minutes from the March 7, 2007 meeting and distribute them to the RAB.

Action Item

1. The Navy will finalize and distribute the March 7, 2007 RAB meeting minutes.

III. COMMITTEE REPORTS AND ANNOUNCEMENTS

RAB Meeting Advertisements

Gregory Glaser (Danville resident) stated he has been looking for ways to generate more community interest in RAB meetings. Mr. Glaser suggested the Navy purchase an advertisement at the Brendan Movie Theatre to announce RAB meetings. Mr. Glaser will look into the cost of running a notice for the RAB meetings at the Brendan Theatre and will report back at the July 2007 meeting.

Ms. Williams suggested RAB announcements be run on the local public access channel, which would be free. Kent Fickett (Mount Diablo Audubon Society) stated before the RAB decides where to advertise meetings, they should look at the audience they are trying to reach. Placing a notice in the *Contra Costa Times* or the *Concord Transcript* might be a good place to reach the audience the RAB is looking to attract. Carolyn Hunter (Tetra Tech EM Inc. [TtEMI]) indicated RAB meeting announcements are posted each month in the *Concord Transcript*. Cindy Welles (Clyde resident) stated KDV is a local radio station that reaches throughout Contra Costa County and might be a good medium to run a public service announcement about the RAB meetings. Robert Barnes (Concord resident) stated he is part of the Dana Estates Homeowners Association and they had a huge turnout for their first homeowners' association quarterly meeting after doing a lot of advertisements. After the first quarterly meeting, the interest in the homeowners association meetings waned. Dana Estates has a "night out" event each June where the Navy can host a booth to hand out information on the RAB.

Mr. Weissenborn stated the Navy is updating the Community Involvement Plan (CIP) and looking at various ways to get information out to the community. Mr. Barnes stated the RAB can advertise in the Dana Estates Homeowners Association's quarterly newsletter. If the Navy is interested, they can send Mr. Barnes a short paragraph for the newsletter. Mr. Fickett stated the City of Concord sends out e-mail announcements and provides updates on their website which might be a good place to announce the RAB meetings. Ms. Welles stated the Navy can also advertise RAB meetings in Clyde's newsletter. Mr. Glaser stated he wants to make sure the RAB continues to be active and meet on a regular basis.

Document Distribution

Mr. Weissenborn requested feedback from RAB members on how they would like to receive documents from the Navy; he specifically asked if RAB members still want to receive copies of all Navy documents. Mr. Fickett stated it is important to him that he receives the figures from documents. Igor Skaredoff (Martinez resident) suggested the Navy upload documents to a website and send all of the RAB members the executive summary and a link to each document. Mr. Barnes stated receiving information on CD is a user friendly way to get documents, as opposed to trying to download large document files from a website. Mr. Weissenborn stated the Navy will need to look into website capacity to see if there is the possibility of posting documents for the RAB. The Navy will check into various methods of making

documents available to the RAB and report back with a summary of those methods. Ms. Williams stated she wants to make sure the RAB members who are not in attendance at the meeting have a chance to provide input on how they would like to receive documents, as well as to poll their interest in participating in the RAB meetings.

Action Items

2. Mr. Glaser will look into the cost for running a notice for the RAB meetings at the Brendan Theatre and report back at the July 2007 meeting.
3. The Navy will check into various methods of making documents available to the RAB and report back once an update is available.

IV. REMEDIAL PROJECT MANAGER (RPM) UPDATE

Navy Update

Mr. Weissenborn stated the Navy prepared an RPM Update handout for the Inland Area activities that have taken place since the last RAB meeting (Attachment C).

Mr. Weissenborn announced the Navy is currently preparing a general Inland Area Environmental Restoration Program update fact sheet.

Mr. Weissenborn stated the Navy conducted 24 interviews to update the CIP, which will be distributed for regulatory agency and public review on June 20, 2007. The Navy received many suggestions for future community involvement activities. Mr. Weissenborn stated he provided a presentation to the Bay Point Municipal Advisory Committee after the Navy interviewed the chair of that committee. The Navy has also been invited to present at a Contra Costa Resource Conservation District meeting.

Mr. Weissenborn stated the Navy distributed the Site 29 Work Plan for groundwater and soil sampling. Mr. Skaredoff asked if the Navy is going to sample for perchlorate at Site 29. Joanna Canepa (TtEMI) stated that in a previous round of sampling at Site 29, perchlorate was below the California Public Health Goal of 6 micrograms per liter. Mr. Weissenborn stated the Navy is going to conduct Site Characterization and Analysis Penetrometer System (SCAPS) sampling at Site 29. Mr. Glaser asked for clarification why SCAPS was proposed, as it provides data of lesser quality than traditional sampling. Mr. Weissenborn stated SCAPS samples have a quick turnaround for analysis, which helps eliminate the guess work in bounding a plume area. Phillip Ramsey (EPA) stated SCAPS sampling gives real time results, which helps decision makers determine where wells could be installed or samples could be collected.

RAB Education Agenda Topics

Mr. Weissenborn asked if the RAB had any suggestions for educational topics the Navy can add to the list for future presentations. Mr. Fickett stated he would be interested in a presentation on the Navy's funding for the cleanup program at the Inland Area. Mr. Fickett would like information specifically on:

- Where the Navy gets their funding
- The decision making process for funding according to project
- The Navy's cleanup priorities
- Public involvement in funding and priorities

Mr. Weissenborn stated a presentation on funding and priorities would be timely around the date when the letter on federal appropriations from the U.S. Congress is released. Mr. Ramsey stated this presentation also would be appropriate when the Navy and EPA are preparing the annual amendment to the Site Management Plan (SMP) for the Inland Area. Ms. Williams asked if Congress has passed the current budget. Mr. Weissenborn stated the Navy has not heard if the budget for cleanup activities has been passed by Congress. Mr. Weissenborn stated he has heard that the budget for the Navy's cleanup activities has been cut by 50 percent. Mr. Weissenborn stated the Navy estimates their budgets in increments of every 6 months for 3 years at a time and then a 7 year projection. Mr. Weissenborn stated the RAB can obtain information on the cleanup budget by reading the Annual Report to Congress. Mr. Ramsey stated the Navy and EPA are working on updating the Inland Area SMP, which will go out in June 2007.

Ric Notini (City of Concord) stated the City Council monitors the SMP and reviews it in conjunction with preparing the reuse plan for the Inland Area. Mr. Newton agreed to prepare an overview of the BRAC budgetary process to give to the RAB at a future meeting.

Lisa Anich (Friends of Mount Diablo Creek) requested an educational presentation on contaminants found in the Inland Area and their structure.

Mr. Glaser requested an educational presentation on the practicality of the coordination of site cleanup with all of the stakeholders.

Mr. Skaredoff asked the Navy to provide a status update to the RAB on the big ticket items to make sure the cleanup is on track. Mr. Skaredoff wanted to make sure efforts on lower priority projects are not compromised.

Ms. Anich asked for information on whether any of the Navy's cleanup activities at NAVWPNSTA Seal Beach Det Concord are impacting Suisun Bay.

Action Item

4. Mr. Newton agreed to prepare an overview of the BRAC budgetary process presentation to give to the RAB at a future meeting.

City of Concord Update

Mr. Notini stated the City of Concord is on track for developing a reuse plan as the Local Reuse Authority. The City of Concord had a community outreach workshop on April 21, 2007 that at least 100 members of the public attended. There is a substantial amount of public interest in the reuse of the Inland Area.

Mr. Notini stated the City of Concord's Community Advisory Committee (CAC) has begun meeting on a regular basis to develop the reuse plan. The CAC meets the third Tuesday of each month at the City of Concord Senior Center at 6:30 p.m. If anyone is interested in more information on the CAC or the reuse plan, they can check the City of Concord website. The City of Concord is planning additional community outreach workshops in the upcoming months.

V. SITE 24A WORK PLAN UPDATE

Greg Peterson (Earth Tech) provided a presentation on the Site 24A Work Plan. The presentation is

included as Attachment D.

VI. SITE 27 WORK PLAN UPDATE

Mr. Weissenborn provided a presentation on the Site 27 Work Plan. The presentation is included as Attachment E.

Mr. Skaredoff asked what is a hazard index. Mr. Weissenborn stated anything that registers above 1.0 indicates a non-carcinogen risk. A hazard index below 1.0 indicates an acceptable risk.

Mr. Skaredoff asked how the Navy knows that the chlordane was no longer present near the former underground storage tank at Site 27. Mr. Ramsey stated all the soil in the tank excavation area was removed and backfilled with clean soil. Mr. Skaredoff expressed his support for the common sense approach used to complete the cleanup at Site 27.

Ms. Welles asked if ingestion is the most common exposure to risk. Mr. Weissenborn stated that exposure may be from ingestion, as well as inhalation and dermal contact. The Navy uses very conservative numbers when assessing risk.

Mr. Glaser asked if EPA concurs with the Navy's approach to the cleanup of Site 27. Mr. Ramsey stated the contaminants at Site 27 are not complex and are being addressed. The Navy has already installed a fence and posted signs at the site.

VII. OTHER TOPICS, NEXT MEETING, AND ACTION ITEMS

Ms. Williams thanked Mr. Weissenborn for his efforts on the NAVWPNSTA Seal Beach Det Concord Inland Area team and wished him well.

The next Inland Area RAB meeting is scheduled for 6:30 to 8:30 p.m. on Wednesday, July 11, 2007.

The following action items were generated during the RAB meeting on May 2, 2007.

No.	Action Item	Target Date for Completion	Responsible Person	Completion Date (or Status)
1	The Navy will finalize and distribute the March 7, 2007 RAB meeting minutes.	5/16/07	C. Hunter	This action item was completed.
2	Mr. Glaser will look into the cost for running a notice for the RAB meetings at the Brendan Theatre and report back at the July 2007 meeting.	7/11/07	G. Glaser	This action item was completed.
3	The Navy will check into various methods of making documents available to the RAB.	7/11/07	D. Newton	This action item was completed.
4	The Navy will prepare an overview of the BRAC budgetary process presentation to give to the RAB at a future meeting.	7/11/07	D. Newton	This action item was completed.

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

May 2, 2007

(One Page)

**ATTENDEES AND AFFILIATIONS
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA
May 2, 2007**

<u>Name</u>	<u>Affiliation</u>	<u>Telephone</u>
Wayne Akiyama	Shaw Group	(925) 288-2003
Lisa Anich*	Friends of Mount Diablo Creek	(925) 689-2642
Robert Barnes	Concord Resident	(925) 686-0106
Beth Byrnes	Concord Resident	(925) 686-4815
Harry Byrnes	Concord Resident	(925) 686-4815
Joanna Canepa	TtEMI	(425) 877-2806
Wilson Doctor	U.S. Navy, BRAC PMO West	(619) 532-0928
Kent Fickett	Mount Diablo Audubon Society	(925) 254-5156
Alan Friedman	Water Board	(510) 622-2347
Gregory Glaser*	Danville Resident	(925) 363-5570
Scott Gromko	U.S. Navy, BRAC PMO West	(619) 532-0933
Carolyn Hunter	TtEMI	(415) 222-8297
John Kaiser	Water Board	(510) 622-2368
La Rae Landers	U.S. Navy, BRAC PMO West	(619) 532-0970
Katherine Lutjoharn	Concord Resident	(925) 676-3717
Darren Newton	U.S. Navy, BRAC PMO West	(619) 532-0963
Rick Notini	City of Concord	(925) 671-3024
Greg Peterson	Earth Tech	
Jim Pinasco	DTSC	(916) 255-3719
Phillip Ramsey	EPA	(415) 972-3006
Igor Skaredoff*	Martinez Resident	(925) 229-1371
Eli Vedagiri	Barajas and Associates	(213) 924-8563
Rick Weissenborn	U.S. Navy, BRAC PMO West	(619) 532-0952
Cindy Welles*	Clyde Resident	(925) 685-2698
Mary Lou Williams*	Concord Resident	(925) 685-1415

Notes:

* Community Restoration Advisory Board (RAB) Member

BRAC PMO Base Realignment and Closure Program Management Office

DTSC Department of Toxic Substances Control

EPA U.S. Environmental Protection Agency

TtEMI Tetra Tech EM Inc.

Water Board San Francisco Bay Regional Water Quality Control Board

ATTACHMENT B

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

MAY 2, 2007
(One Page)

AGENDA

NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD RESTORATION ADVISORY BOARD (RAB) MEETING

Wednesday, May 2, 2007
6:30 p.m. – 8:30 p.m.

Location: Concord Police Department Community Meeting Room
1350 Galindo Street, Concord, CA 94520

- 6:30 – 6:45 Call to Order
- Welcome
 - Introductions
 - Public Comments
 - July 2007 Agenda Approval
- Lead: Community Co-chair
- 6:45 – 6:50 Approval of March 2007 Meeting Minutes (Last Inland Area Meeting)
Review Unresolved Business
Lead: Navy Co-chair
- 6:50 – 7:30 Committee Reports/Announcements
- RAB Announcements, Reports or other business
 - Remedial Project Managers' Update (Navy/EPA/DTSC/RWQCB)
 - City of Concord Update
 - Document Distribution
 - RAB Educational Agenda Topics
- 7:30 – 7:40 Break
- 7:40 – 8:00 Presentation: Site 24A Work Plan
Presenter: Greg Peterson (Earth Tech)
- 8:00 – 8:30 Presentation: Site 27 Work Plan
Presenter: Rick Weissenborn (Navy)
- 8:30 Adjourn
-

*NAVWPNSTA Seal Beach Det Concord RAB Meetings are held the first Wednesday of every month, unless changed.
Information regarding the Environmental Restoration program at NAVWPNSTA Seal Beach Det Concord can be found at:*

- NAVWPNSTA Seal Beach Det Concord program prior to December 2005:
<http://www.sbeach.navy.mil/Programs/Environmental/IR/IR.htm>
- NAVWPNSTA Seal Beach Det Concord program after December 2005:
<http://www.bracpmo.navy.mil/brac2005/bracbases/ca/concord/default.aspx>

In addition, a public voicemail is available for questions at (925) 246-4020

*BRAC Environmental Coordinator: Mr. Rick Weissenborn (619) 532-0952, richard.weissenborn@navy.mil
Community RAB Co-Chair: Mary Lou Williams, Mlou1015@aol.com*

ATTACHMENT C

**NAVY AND U.S. ENVIRONMENTAL PROTECTION AGENCY REMEDIAL PROJECT
MANAGER'S UPDATES
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

MAY 2, 2007
(2 Pages)



Navy RPM Update for 2 May 2007 Meeting of Naval Weapons Station, Detachment Concord Restoration Advisory Board (RAB)

Summary of Navy BRAC Inland Area Remedial Project Manager (RPM) activities since the last RAB meeting held on Wednesday, 7 March 2007

Installation Restoration/Munitions Response Programs Sites

- 28 March 2007 - The Navy submitted the Draft Site 27 Buildings IA-20 and IA-36 Chlordane Investigation Work Plan to the regulatory agencies and the RAB for review. Comments are due 28 May 2007.
- April 2007 – The Draft FSP/QAPP for Site 22A Arsenic Investigation for Magazine Areas 1 through 5 was submitted to the regulatory agencies and the RAB for review. The Navy received comments from DTSC on 4 April 2007, from the Water Board on 10 April 2007, and from the EPA on 13 April 2007. The Navy is currently preparing responses to these comments and plans to submit the Draft Final Site 22A FSP/QAPP by 13 June 2007.
- 5 April 2007 – The Navy submitted the Draft Inland Area Environmental Restoration Program fact sheet to the regulatory agencies and the RAB for review. Comments were received from the California Department of Fish and Game on 5 April 2007 and from the EPA on 24 April 2007. No other comments were received.
- 11 April 2007 – The Navy held a Military Munitions Response Program (MMRP) Site Inspection (SI) work plan scoping meeting with the regulatory agencies and conducted a site visit for Site 24A, Small Arms and Grenade Launching Range.
- 12 April 2007 – The Navy held a follow-up Data Quality Objectives (DQO) scoping meeting conference call with the regulatory agencies on the MMRP SI Work Plan project for four MMRP sites.
- 23 April 2007 – The Navy conducted a site walk with the regulatory agencies at the MMRP site Burn Area near HE-58.
- 19 April 2007 – The Navy distributed the Draft Final Site 29 Work Plan for soil and groundwater investigation at Building IA-25. The work plan will become final on 20 May 2007. Field work is scheduled to begin 23 May 2007.
- 27 April 2007 – The Navy completed community interviews which were being conducted to facilitate an update to the Inland Area Community Involvement Plan (CIP). The Draft CIP will be distributed for regulatory agency and RAB review on 20 June 2007.
- 30 April 2007 – The Navy has received a proposal for the Site 22 Main Munitions Area Feasibility Study (FS) from the Navy request for a proposal (RFP) and is in the process of negotiating a contract. The Navy plans to award the contract by mid-May 2007.

Solid Waste Management Units (SWMUs) 2, 5, 7 & 18

- 15 March 2007 – Completed the field work for the air sparge/soil vapor extraction groundwater pilot study at SWMUs 2, 5, 7, and 18. The Navy is currently evaluating the pilot study results.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

U.S. Environmental Protection Agency
Restoration Advisory Board Update
May 2, 2007

Correspondence Issued:

- April 6, 2007: EPA Review of Site 1 Landfill Redesign Technical Memorandum, dated March 5, 2007.
- April 19, 2007: EPA Review of Draft Site 22A Sampling Plan, dated February 2, 2007.
- April 24, 2007, email: EPA reviewed Draft Inland Area Fact Sheet, dated April 5, 2007

Meetings/Site Visits:

- April 4, 2007: RPM Meeting:
Major Topics: Tidal Area focus - Litigation Area FS; Tidal Area Landfill Update
- April 4, 2007: RAB Meeting:
Major Topic: Tidal Area focus- Site 30 (Taylor Boulevard Bridge Disposal Site)
Removal Action Work Plan.
- April 5, 2007: Litigation Area - Feasibility Study Alternatives Screening.
- April 11, 2007: Pistol Range (Site 24A) Scoping Meeting and Site Tour.
- April 12, 2007: Inland Area Burn Area Near HE-58 Scoping Meeting.
- April 16, 2007: U.S. EPA basewide update to the Environmental Alliance at John Muir National Historic Site.
- April 25, 2007: Tidal Area Munition Sites Scoping Meeting.
- May 2, 2007: RPM Meeting:
Major Topics: Inland Area focus - Resources; Site Management Plan; Site Updates.
- May 2, 2007: RAB Meeting:
Major Topics: Inland Area focus -RAB Interests, Site 24A Update; Site 27 Sampling Plan

Prepared by:

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ATTACHMENT D

SITE 24A WORK PLAN PRESENTATION
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA

MAY 2, 2007

(9 Pages)



Munitions Response Site Inspection

**BRAC
PMO**

**Site 24A – Former Pistol Range
Naval Weapons Station Seal Beach Detachment Concord
Restoration Advisory Board (RAB) Meeting
May 02, 2007**

1



Site Background

**BRAC
PMO**

- Site 24A former pistol firing range
- Located near Building IA-57, approximately 1.5 acres
- Range established in the 1950s and active until January 2005
- Ammunition found at the site has ranged from small arms caliber to .50-caliber
- Visual evidence of shotgun use was found at the site
- Site also used for training security personnel in the use of 40mm grenade launchers
- 40mm M781 and M-407A1 practice grenades have been located at the site in the past and are visible on the target hill just behind the small arms firing range target berm

2

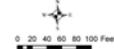


Site 24A – Former Pistol Range

**BRAC
PMO**



Site 24A - Former Pistol Range
Naval Weapons Station
Seal Beach Detachment
Concord, California



Discussion Points

**BRAC
PMO**

- Previous Investigations Conducted at the Site
- Project Description and Management
- Purpose and Objectives
- Site Inspection Field Activities



Previous Investigations

**BRAC
PMO**

- In approximately 1978, high lead levels were observed in the soil that made up the target berm.
 - Target berm was re-capped with clean soil.
- The IAS concluded NFA under the NACIP program was warranted (Ecology and Environment 1983).
 - The type of metallic lead used at the firing range was not thought to cause a threat to groundwater (Ecology and Environment 1983).
- Inland Area SI report recommended further investigation based on elevated concentrations of lead in soil and a potential stormwater pathway (PRC 1993).
- A RI was conducted at Site 24A to evaluate the nature and extent of metals present in the firing range berms and drainage features (Tetra Tech 1997).
 - The RI found no metals leaching from site soils into storm water or groundwater.

5



Project Description

**BRAC
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- The SI will be conducted in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) for uncontrolled hazardous substance release sites.
- The purpose of this SI is not intended as a full-scale study of the nature and extent of contamination or explosive hazards, but involves the generation of sampling and other field data necessary to evaluate if further investigation or response action is warranted.

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Purpose and Objectives:

**BRAC
PMO**

- The information gathered during the SI will be used to:
 - Estimate site boundaries
 - Collect broad site information
 - Assess the risk/hazards posed by any located munitions and explosives of concern (MEC)
 - Assess the risk/hazards posed by detected munitions constituents (MC) and/or metals
 - Prepare an SI Report

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Site Inspection Field Activities

**BRAC
PMO**

- Visual Field Inspection
- Land Surveying
- Soil Sampling
- Site Restoration

8



Visual Field Inspection

**BRAC
PMO**

- **Visual Inspection Team**
 - UXO III Qualified Team Leader
 - Project Scientist
 - Team Equipment:
 - GPS GARMIN WASS capable
 - EM hand held all metal detectors
 - Radio and cell phone
 - Level D PPE

9



Visual Inspection Proposed Transects

**BRAC
PMO**

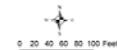


Legend

- Fences
- Pistol Range Firing MRS
- Visual Inspection Transect

**Pistol Range Firing MRS
Visual Inspection Transects**

Site 24A - Former Pistol Range
Naval Weapons Station
Sea Beach Department
Concord, California





Visual Inspection Proposed Transects

**BRAC
PMO**

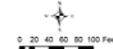


Legend

- Fences
- 40mm Grenade Impact MRS
- Visual Inspection Transect

40mm Grenade Impact MRS Visual Inspection Transects

Site 24A - Former Patrol Range
Naval Weapons Station
Sea Beach Detachment
Concord, California



Land Surveying

**BRAC
PMO**

- Position of located MEC and munitions debris (MD)
- Position of each soil sample location
- Equipment:
 - GPS GARMIN WASS capable



Sampling and Analysis Plan

**BRAC
PMO**

- Sampling Methods
- Sample Locations
- Sample Quantities

13



Soil Sampling Proposed Locations

**BRAC
PMO**

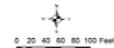


Legend

- Fences
- Pistol Range Firing MRS
- Soil Sampling Locations

Pistol Range Firing MRS Soil Sampling Locations

Site 24A - Former Pistol Range
Naval Weapons Station
San Bruno Ordnance
Concord, California





Soil Sampling Proposed Locations

**BRAC
PMO**

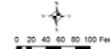


Legend

- Fences
- 40mm Grenade Impact MRS Soil Sampling Locations

40mm Grenade Impact MRS Soil Sampling Locations

Site 24A - Former Pistol Range
Naval Weapons Station
Sea Beach Detachment
Concord, California



Site Restoration

**BRAC
PMO**

- Each sampling location will be restored to match pre-sampling conditions



Project Schedule

**BRAC
PMO**

- **Completed Tasks:**
 - **Project Meeting/Site Visit with Project Team and Regulators:
April 11, 2007**

- **Future Tasks:**
 - **Draft Work Plan and Sampling and Analysis Plan submitted for
Regulator review: July 16, 2007**

ATTACHMENT E

**SITE 27 WORK PLAN PRESENTATION
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

MAY 2, 2007

(8 Pages)



Site 27 Sampling and Analysis Plan

Naval Weapons Station Seal Beach
Detachment Concord

Restoration Advisory Board Meeting

May 2, 2007



- Historical Background
- Remedial Investigation (RI) and Feasibility Study (FS)
- Sampling and Analysis Plan
- RI Addendum
- Schedule
- Questions





Historical Background

**BRAC
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Building IA-20 Chemical and Materials Testing Laboratory

- Built in 1947; operations ended in 1999
- Oil/hydraulic fluid testing and materials structural testing



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Historical Background

**BRAC
PMO**

Building IA-36 Boiler House

- Built in 1946; operations ended in 1999
- Adjacent 10,000 gallon diesel tank removed in 1997 after the boiler was converted to operate using natural gas
- The boiler provided energy to 3 buildings for heating and domestic hot water use



4



Remedial Investigation

**BRAC
PMO**

RI field work conducted in 1996 and 1997

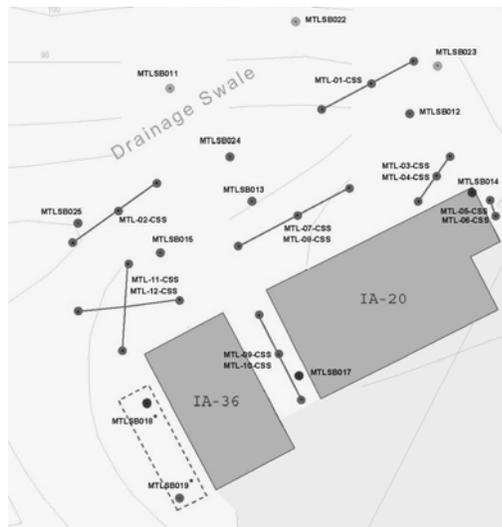
- Soil was analyzed for:
 - Petroleum
 - Volatile organics
 - Semivolatile organics
 - Pesticides
 - Polychlorinated biphenyls and
 - Arsenic
- Chlordane, DDD, and PCBs were detected at elevated concentrations

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Previous Sample Locations

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- REMEDIAL INVESTIGATION SAMPLING LOCATION
- SITE INVESTIGATION COMPOSITE SAMPLING LOCATION

NOTES:
 1. GREEN SYMBOL INDICATES PESTICIDES NOT DETECTED IN SAMPLE.
 BLUE SYMBOL INDICATES PESTICIDES DETECTED AT CONCENTRATIONS LESS THAN RESIDENTIAL PRG.
 RED SYMBOL INDICATES PESTICIDES DETECTED AT CONCENTRATIONS EXCEEDING RESIDENTIAL PRG.
 2. RESID. PRG - RESIDENTIAL PRELIMINARY REMEDIATION GOAL.

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Remedial Investigation

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Results

- Chlordane detected in 13 of 19 samples
 - concentrations ranging from 0.002 to 47 mg/kg
- Three chlordane samples exceeded the EPA Residential PRG
- Screening level human health risk assessment performed
- Residential Hazard Index (HI) for Chlordane was 2
- Chlordane only chemical identified as a Chemical of Concern

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Feasibility Study

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The 2003 Final FS remedial action objectives:

- Protect human health and the environment
- Comply with ARARs

Three remedial alternatives evaluated:

- Alternative 1, No Action (CERCLA-required benchmark evaluation)
- Alternative 2, Land Use Controls (LUCs)
- Alternative 3, Building Demolition, Disposal, and Contaminated Soil Removal

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Proposed Plan

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- **Proposed Plan Public Comment Period was held between September 20, 2005 and October 20, 2005**
- **Proposed Plan Public Meeting was held on October 5, 2005**
- **The Proposed Plan recommended Alternative 2, Land Use Controls**

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Re-evaluation of Data

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- **Navy BRAC reviewed existing data:**
 - **Three surface soil samples exceeding the residential PRG for chlordane**
 - **One sample has been removed**
- **The distribution of samples is not sufficient to accurately delineate the lateral extent and depth of chlordane contamination or assess human health risk**
- **Additional soil samples need to be collected to fully characterize and delineate chlordane contamination and assess human health risk at Site 27**

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Sampling and Analysis Plan

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Objectives for soil sampling at Site 27

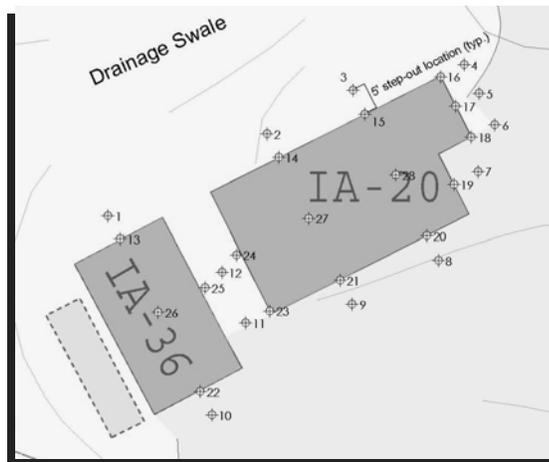
- Determine lateral extent of chlordane
- Determine vertical extent of chlordane
- Determine if the distribution of chlordane was applied uniformly across each of the two building foundations
- Calculate more exact volume estimates of contaminated soils to refine the cost of Remedial Alternative 3, if needed

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Proposed Sampling Locations

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Collect 84 soil samples and analyze in sequence:

1. Near surface samples below building and at perimeter
2. Adjacent and deeper samples where chlordane exceeds PRGs.

LEGEND:

- ⊕ PROPOSED CHLORDANE ANALYSIS LOCATION; SAMPLE DEPTH INTERVALS (FT BGS): 0-0.5, 1-1.5, 2.5-3.0
- FORMER UNDERGROUND STORAGE TANK
- EXISTING BUILDING
- HARD SURFACE

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RI Report Addendum

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- **Reevaluate the exposure point concentrations**
- **Determine if samples collected to date represent the true risk posed by the site**
- **Recalculate human health risk posed by chlordane**
- **Amend the RI report**

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Schedule

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- **May 28, 2007** **Regulatory agencies and RAB complete review of draft SAP**
- **July 27, 2007** **Draft final SAP to regulatory agencies and RAB**
- **August 29, 2007** **Final SAP**
- **September 2007** **Conduct soil sampling**
- **February 2008** **Draft remedial investigation report addendum to regulatory agencies and RAB**

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QUESTIONS???