



TETRA TECH EM INC.

October 27, 2011

Dear RAB Members,

On behalf of the Navy, enclosed please find the April 6, 2011 final RAB meeting minutes for your information and records.

If there are any questions regarding the enclosed minutes, please contact Carolyn Hunter at (916) 853-4556 or Carolyn.hunter@tetratech.com.

Sincerely,

Carolyn Hunter
Community Relations Specialist
Tetra Tech EMI

FINAL
MEETING MINUTES
RESTORATION ADVISORY BOARD
INLAND AREA ENVIRONMENTAL RESTORATION PROGRAM
FORMER NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD
CONCORD, CALIFORNIA
APRIL 6, 2011

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 the Former Naval Weapons Station Seal Beach Detachment Concord (NAVWPNSTA Concord), California. The meeting was held from 6:00 p.m. to 7:45 p.m. on April 6, 2011, at the Clyde Clubhouse in Clyde, 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](#). Handouts at the meeting also are included as attachments to these minutes.

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

Welcome and Introductions

The RAB First-Alternate Community Co-Chair, Igor Skaredoff (Martinez resident), called the RAB meeting to order and initiated a round of introductions for attendees.

Public Comments

Mr. Skaredoff opened the floor to public comments. No comments were received.

II. RAB ANNOUNCEMENTS

Mr. Skaredoff and Scott Anderson (Navy RAB Co-chair) opened the floor to RAB announcements.

Mr. Skaredoff announced that there were two RAB applicants for the board to consider: Dennis Geiser (Concord resident) and Jimm Edgar (Mount Diablo Audubon Society president). Mr. Geiser and Mr. Edgar introduced themselves to the RAB and provided information on their interest in joining the board. The RAB voted Mr. Geiser and Mr. Edgar onto the board. Mr. Skaredoff invited the applicants to also join the Military Ocean Terminal Concord (MOTCO) RAB, which is run by the Army.

Mr. Anderson announced that Rosanne Nieto (Concord resident) has resigned from the RAB for personal reasons.

Mr. Anderson reviewed the outstanding action items from the RAB meeting on February 2, 2011:

Mr. Anderson will work with the Army to address the pipeline issues: Mr. Anderson said the Navy has been working with the Army to address the pipeline issues. As information is available, he will provide it to the RAB. Edi Birsan (Concord resident) said that he has spoken to his contacts at the City of Concord and the Army's Commander, Chris Hart. Communication with the pipeline companies is moving along. Mr. Anderson said that when he spoke to the pipeline owners, they assured that the pipelines are checked regularly for leaks. Paul Choisser (Concord resident) said the City of Concord should be concerned about the pipelines because roads cross over them in the reuse plan for the Inland Area. Mr. Anderson said that he provided the Navy's contact information for the pipeline companies to Michael Wright (City of Concord). This action item is completed.

RAB Open Comment Period

Mr. Skaredoff opened the RAB comment period.

Mr. Birsan asked if there was a way to plant trees in areas that will be designated as open space in the reuse plan. Mr. Anderson said that there are numerous issues in regards to tree planting, from re-use concerns, to possible disruption of the current grassland habitat, however, if a proposal was presented the Navy would evaluate. The locations to plant trees would need to be presented to Navy management, and the funding for the trees would need to be provided. Mr. Birsan said he will look into areas where he would like to plant trees and funding sources and respond to Mr. Anderson. Mr. Edgar said the Mount Diablo Audubon Society may be interested in helping with a tree planting plan and will coordinate efforts with Mr. Birsan.

Mr. Choisser announced that the annual John Muir Earth Day celebration will take place in Martinez at the John Muir Center on April 16, 2011, from 10:00 a.m. to 4:00 p.m. Everyone is welcome to attend.

Shon Wolf (Clyde resident) said that the MOTCO Army Commander Hart has been a great addition to the community. Commander Hart has been involved since he came to MOTCO and Mr. Wolf appreciates the Army's support of the surrounding community.

RAB Meeting Minutes Approval

Mr. Anderson asked if the RAB had comments on the minutes for the meeting on February 2, 2011. Mr. Choisser provided verbal comments on the draft February 2, 2011, RAB meeting minutes that will be incorporated into the final version. The RAB approved finalizing the February 2, 2011, meeting minutes with the comments incorporated.

Action Item

1. The Navy will finalize the minutes for the RAB meeting on February 2, 2011.

III. RPM UPDATE

Navy Update

Mr. Anderson reviewed the Navy RPM update handout, which is included as [Attachment C](#).

Mr. Wolf asked if the state regulatory agencies have been participating in cleanup at former NAVWPNSTA Concord with the Navy. Mr. Anderson said that the state regulatory agencies have been participating in reviewing documents and attending meetings for the former NAVWPNSTA Concord. The Department of Toxic Substances Control Board, San Francisco Bay Regional Water Quality Control Board, and California Department of Fish and Game (CDFG) all participated in the Remedial Project Managers (RPM) meeting to held on April 6, 2011.

Ms. Wells asked if there are fire department activities in the Inland Area. Julie Crosby (Navy Lead RPM) said that the Contra Costa County Fire Department is holding fire safety training near the Solid Waste Management Unit (SWMU) Sites 2, 5, 7, and 18, however these activities are on Army property.

IV. THE STATE OF THE STATION PRESENTATION

Mr. Anderson presented information on the state of the station ([Attachment D](#)).

Mr. Wolf asked how the Navy determined the Alameda whipsnake is present at former NAVWPNSTA Concord. Mr. Anderson said that CDFG had recently informed the Navy there is the potential for the Alameda whipsnake to be present at the base, which needs to be considered during field work.

Mr. Wolf asked who built the new fire station in the Inland Area. Mr. Anderson said the new fire station was built by the Army on land that has been transferred to the Army.

V. BASEWIDE BIOLOGICAL PROGRAM UPDATE PRESENTATION

Dennis Parker (Navy RPM) presented information on the basewide biological program update ([Attachment E](#)), and introduced Melissa Odell (Condor Country Consulting) as the technical lead on the project.

Mr. Birsan asked what is done with the animals that are trapped. Ms. Odell said that the trapped animals are relocated outside of the field work area. The sites are secured with fencing to keep the animals from returning to the area until the field work is complete. The relocation is not far from where the animals are found, so they are still in the same type of habitat.

Mr. Edgar asked if the Navy has encountered burrowing owls. Mr. Parker said the Navy has had limited burrowing owl sightings outside of the proposed field work areas. Mr. Choisser said that the City of Concord's redevelopment contractor saw burrowing owls near the former Coast Guard housing during a site tour. Burrowing owls were also seen in the Site 22A bunker area;

this sighting was reported in the Environmental Impact Report (EIR) prepared by the City of Concord. Mr. Choisser asked if fairy shrimp that have been previously found in the ephemeral ponds are being assessed. Mr. Parker said that the Navy is focusing its efforts on the animals that are affected by the proposed field work. Fairy shrimp were not considered since they do not live in the areas where the Navy has proposed field work. Mr. Anderson said that the Navy will have a biologist on site during field work to ensure the safety of the animals. Mr. Choisser asked if there was a plan to monitor animals that were relocated. Mr. Parker said the relocation will only be about 20 to 30 feet from where they were found, so no monitoring is necessary.

Mr. Birsan said that since the U.S. Forest Service removed trees on the perimeter of the Inland Area the neighbors are experiencing an increase of voles in their yards. Mr. Birsan asked if the Navy has noticed an increase in voles in the Inland Area. Mr. Parker said that voles are not a species of concern for the field work, so he is not sure if there has been an increase.

Mr. Birsan said that it seems there is a decrease in the raptor population in the area. Ms. Odell said that during her trapping on site she observed a large bird population, including raptors.

VI. OTHER TOPICS, NEXT MEETING, AND ACTION ITEMS

Mr. Anderson said the next official Inland Area RAB meeting will take place on June 1, 2011. Mr. Anderson asked if the RAB would be interested in a site tour in lieu of a meeting on June 1, 2011. The RAB agreed with a site tour in lieu of a meeting on June 1, 2011. Mr. Anderson agreed to distribute information on the RAB site tour tentatively scheduled from 5:00 p.m. to 7:00 p.m. on June 1, 2011.

Action Item

2. The Navy will distribute information to the RAB via e-mail on the upcoming site tour from 5:00 p.m. to 7:00 p.m. on June 1, 2011.

No.	Action Item	Target Date for Completion	Responsible Person	Completion Date (or Status)
1.	The Navy will finalize the minutes of the RAB meeting on February 2, 2011.	4/29/11	C. Hunter	This action item was completed.
2.	The Navy will distribute information via e-mail on the upcoming site tour on June 1, 2011 from 5:00 p.m. to 7:00 p.m. to the RAB.	5/14/11	S. Anderson	This action item was completed

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

APRIL 6, 2011

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**ATTENDEES AND AFFILIATIONS
 RESTORATION ADVISORY BOARD MEETING
 FORMER NAVAL WEAPONS STATION SEAL BEACH
 DETACHMENT CONCORD, CALIFORNIA
 APRIL 6, 2011**

<u>Name</u>	<u>Affiliation</u>	<u>Telephone</u>
Wayne Akiyama	Shaw Environmental	(925) 288-2003
Scott Anderson	Navy, BRAC PMO West	(619) 532-0938
Bryce Bartlema	Navy, BRAC PMO West	(619) 532-0975
Edi Birsan*	Concord Resident	(510) 812-8180
Beth Byrne	Concord Resident	(925) 686-4815
Harry Byrne	Concord Resident	(925) 686-4815
Joanna Canepa	Tetra Tech	(425) 877-2806
Paul Choisser*	Concord Resident	(925) 270-3096
Julie Crosby	Navy, BRAC PMO West	(619) 532-0929
Steve DelHomme	Tetra Tech	(852) 251-5163
Katherine Duno- Luttjoahon	Concord Resident	(925) 676-3111
Jimm Edgar	Mount Diablo Audubon Society	
Amy Estey	Shaw Environmental	(925) 288-2091
Melinda Garvey	EPA	(415) 947-4184
Dennis Geiser*	Concord Resident	(925) 692-2127
Carolyn Hunter	Tetra Tech	(916) 853-4556
Jackie Lane	EPA	(415) 972-3236
Melissa Odell	Condor Country Consulting	(925) 335-9308
Dennis Parker	Navy, BRAC PMO West	(619) 532-0954
Igor Skaredoff*	Martinez Resident	(925) 229-1371
Cindy Welles*	Clyde Resident	(925) 685-2698
Shon Wolf*	Clyde Resident	(925) 686-5924

Notes:

*	Community Restoration Advisory Board (RAB) Member
BRAC PMO	Base Realignment and Closure Program Management Office
EPA	U.S. Environmental Protection Agency
Tetra Tech	Tetra Tech EM Inc.

ATTACHMENT B

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

APRIL 6, 2011

(2 Pages)

INLAND AREA AGENDA

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

Wednesday, April 6, 2011
6:00 p.m. – 7:45 p.m.

Location: Clyde Clubhouse
109 Wellington Avenue
Clyde, CA 94520

- 6:00 – 6:15 Call to Order
- Welcome
 - Introductions/Agenda Review
 - Public Comment Period
 - Approval of the February 2011 Meeting Minutes
- Lead: Community Co-chair
- 6:15 – 6:20 Announcements
- Review of Action Items
- Lead: Navy Co-chair
- 6:20 – 6:40 Committee Reports/Announcements
- RAB Announcements, Reports or other business (Community Co-chair)
 - RAB Open Comment Period
 - Remedial Project Managers' (RPM) Update (Navy/EPA/DTSC/RWQCB)
 - City of Concord Update
- 6:40 – 7:15 Presentation: State of the Station
Navy: Scott Anderson, Navy RAB Co-chair
- 7:15 – 7:35 Presentation: Biological Program Update
Navy: Dennis Parker, Remedial Project Manager
- 7:35 – 7:45 Meeting Evaluation and Topic Suggestions of Future Meetings
Next RAB Meeting: June 1, 2011
- 7:45 Adjourn

Next RAB Meetings

- Inland Area: June 1, 2011

NAVWNPSTA CONCORD RAB Meetings are held the first Wednesday of every month, unless changed.

Information regarding the Environmental Restoration program at Former Naval Weapons Station Seal Beach Detachment Concord Inland Area can be found at:

<http://www.bracpmo.navy.mil/basepage.aspx?baseid=39&state=California&name=concord>

BRAC Environmental Coordinator: Mr. Scott Anderson (619) 532-0938,

scott.d.anderson@navy.mil

Community RAB Co-Chair: Ms. Mary Lou Williams, (925) 685-1415

ATTACHMENT C

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

APRIL 6, 2011

(2 Pages)



Navy Remedial Project Manager (RPM) Update for 6 April 2011 Meeting of Former Naval Weapons Station Seal Beach Detachment Concord

Summary of Navy Base Realignment and Closure (BRAC)
Inland Area RPM activities since the last RAB meeting held on
Wednesday, 2 February, 2011

Installation Restoration and Munitions Response Programs Sites

- February 9, 2011 – The Navy requested a 30-day extension on submittal of the Final Feasibility Study for Site 22A. The extension results in a revised milestone delivery date from 2/7/11 to 3/9/11.
- February 10, 2011 – Navy issued the Quarterly Groundwater Monitoring Report from groundwater monitoring in December 2010 conducted at Solid Waste Management Unit (SWMU) Sites 2, 5, 7, and 18.
- February 13, 2011 – The Navy issued the final Remedial Design for SWMU Sites 2, 5, 7, and 18.
- February 15, 2011 – The Navy requested a 30-day extension on submittal of the Draft Final Record of Decision for Site 22. The extension results in a revised milestone delivery date from 3/7/11 to 4/7/11.
- February 17, 2011 – RPMs held monthly teleconference call regarding the Treatability Study for Site 29.
- March 1, 2011 – Navy collected soil samples at the Former Inland Burn Area.
- March 4, 2011 – Navy issued the Final Remedial Investigation for IR Site 29.
- March 4, 2011 – Navy issued the Final Treatability Study Work Plan and Sampling and Analysis Plan for Site 29.
- March 7-11, 2009 – The Navy performed the first semi-annual basewide groundwater monitoring event for 2011.
- March 9, 2011 – Navy issued the Final Feasibility Study for IR Site 22A.

- March 15, 2011 – Navy requested a 30-day extension on submittal of Responses to Comments (RTC) on the Draft Engineering Evaluation/Cost Analysis for Site 24A (Pistol Range). The extension results in a revised milestone delivery date from 3/9/11 to 4/8/11.
- March 17, 2011 – RPMs held monthly teleconference call regarding the Treatability Study for Site 29.
- March 22, 2011 – Held kickoff meeting for the Remedial Action at SWMU Sites 2, 5, 7, and 18.
- March 23, 2011 – Navy met with California Department of Fish and Game representatives on site to observe biological trapping activities for the California tiger salamander and red-legged frog.
- March 30, 2011 – RPMs met to discuss the Proposed Plan for Site 22A.
- April 4, 2011 – Background data collection and bunker radiological surveys began for the radiological scoping survey program.
- April 6, 2011 – RPMs met for a bi-monthly RPM meeting.

Acronyms

BRAC – Base Realignment and Closure Commission
EE/CA– Engineering Evaluation/Cost Analysis
EPA – United States Environmental Protection Agency
RAB – Restoration Advisory Board
RPM – Remedial Project Managers
RTC – Responses to Comments
SWMU – Solid Waste Management Unit

ATTACHMENT D

**THE STATE OF THE STATION PRESENTATION
RESTORATION ADVISORY BOARD MEETING
FORMER NAVAL WEAPONS STATION SEAL BEACH
DETACHMENT CONCORD, CALIFORNIA**

APRIL 6, 2011

(11 Pages)



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Former Naval Weapons Station Seal Beach Detachment Concord

State of the Station

Inland Area Environmental Program Brief

Restoration Advisory Board Meeting

Scott Anderson

Base Realignment and Closure Environmental Coordinator

April 6, 2011



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Program Activities

Basewide Projects (Inland Area)

- Groundwater
- Radiological
- Biological
- AOPs
- Compliance

Installation Restoration (IR) Program Sites

- IR Site 22
- IR Site 22A
- IR Site 27
- IR Site 29
- SWMUs 2, 5, 7, 18

Military Munitions Response Program (MMRP) Sites

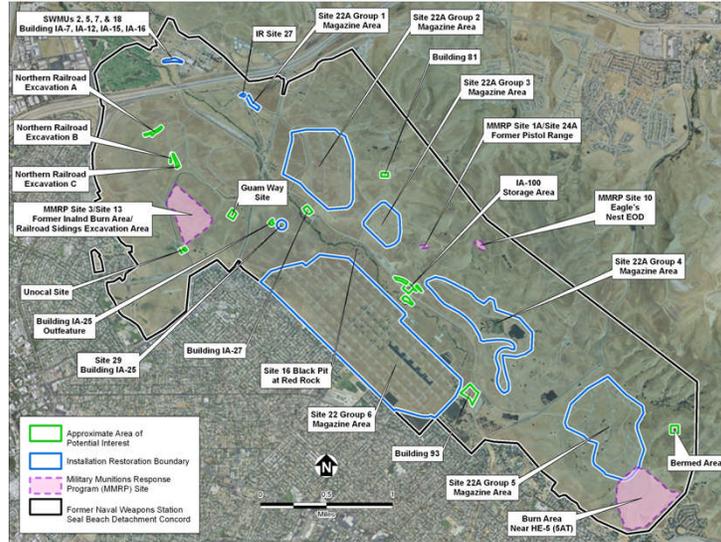
- MMRP Site 3/IR Site 13 - Former Inland Burn (FIB) Area/Railroad Sidings Excavation Area
- MMRP Site 10 - Eagle's Nest EOD
- MMRP Site 1A/Site 24A - Former Pistol Range
- Black Pit at Red Rock - No Further Action
- HE-5 Burn Area - No Further Action





Site Map

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Basewide Projects – Groundwater

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Purpose

- Supplement site specific groundwater (GW) monitoring - SWMUs, Site 29
- Provide GW data to support future decisions - Site 13, Site 22
- Update GW elevation maps - Sites 13, 17, 22, 29, SWMUs

Recent Accomplishments

- First year complete (2 rounds GW sampling, 4 rounds GW elevation measurements)
- Two quarterly GW sampling events at SWMUs 2, 5, 7, 18
- Final GW sampling report – December 2011

Next Steps

- Quarterly GW sampling at SWMUs site – June and September 2011
- GW elevation measurements - September 2011



Basewide Projects - Radiological

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Radiological Scoping Surveys Overview

- Evaluate sites designated as “impacted” in Historical Radiological Assessment
 - Buildings 81, 87, IA-20, IA-21, IA-21A, IA-22, IA-58
 - 35 special weapons magazines
 - 6 depleted uranium magazines
- Obtain “free release” if sites not contaminated
- Begin characterization surveys if sites are contaminated

Recent Accomplishments

- Final Historical Radiological Assessment – March 2010
- Final Scoping Survey Work Plan – January 2011
- Scoping surveys initiated - April 2011

Next Steps

- Scoping surveys results report – Fall 2011



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Basewide Projects - Biological

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Purpose

- Minimize impacts to federally and state threatened, endangered, or proposed species and their habitat

Recent Accomplishments

- Informal consultation letter – August 2010
- Biological Assessment – September 2010
- Trapping Plan – December 2010
- Trapping work for California Tiger Salamander (CTS) and California Red-legged Frog (CRLF) – March 31, 2011



Next Steps

- Perform Alameda whipsnake trapping – Spring 2011
- Obtain Biological Opinion from US Fish and Wildlife Service

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Basewide Projects - AOPIs

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AOPI Overview

- 9 areas throughout Concord

AOPIs:

- IA-25 Outfeature
- Northern RR Excavation A,B,C
- Building IA-27
- Unocal Site
- IA-100 Storage Area
- Bermed Area
- Building 81
- Building 93
- Guam Way

Recent Accomplishments:

- Final Site Inspection Work Plan – July 2010
- Field work at AOPI sites – September to November 2011
- Trapping for CTS and CRLF – March 31, 2011

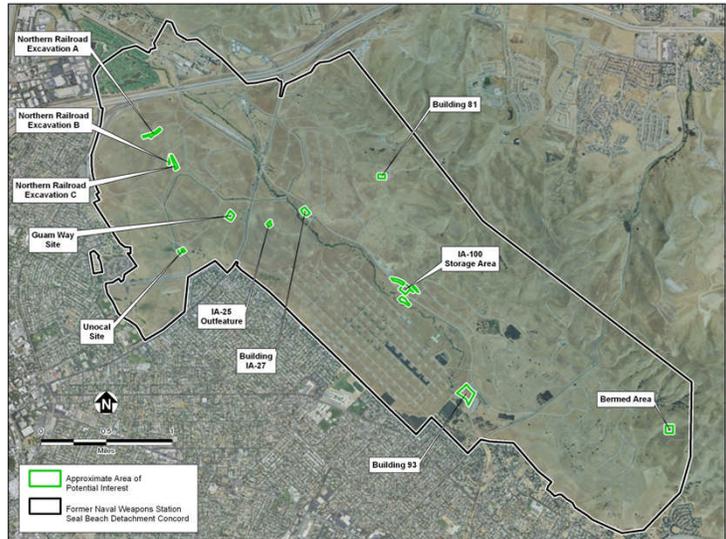
Next Steps:

- Trapping for Alameda Whipsnake in Bermed Area – April to June 2011
- Field work – Summer 2011
- Site Inspection report – Winter 2012



Areas of Potential Interest

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Basewide Projects – Compliance

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IA-17 Underground Storage Tank

- Low-risk closure report submitted to the Water Board
- Navy determined that site meets the Water Board’s low-risk soil and groundwater closure criteria (6 criteria)
- Awaiting response from Water Board

Building 522 Underground Storage Tanks

- Five 12,000-gallon tanks, approximately 400 feet of piping
- Emptied and cleaned in 2002 - temporary closure from Contra Costa County
- Final Work Plan – January 2011
- Removal scheduled in 2011 (avoid rainy season)
- Goal is to achieve closure from the County



Installation Restoration Projects

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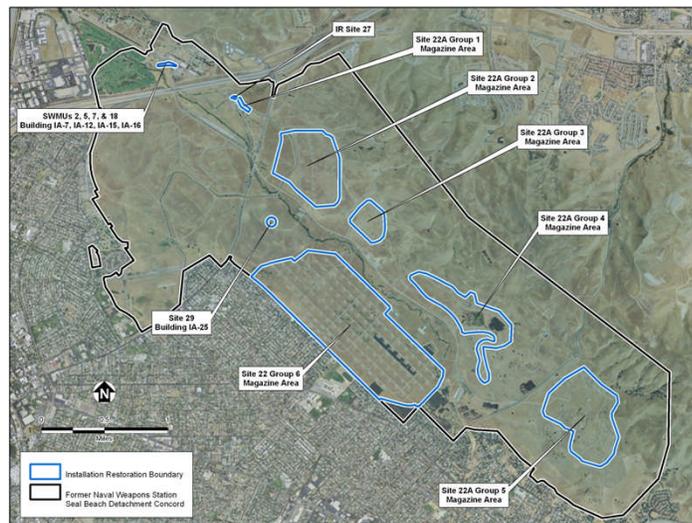
IR Site 22

IR Site 22A

IR Site 27

IR Site 29
(Building IA-25)

SWMUs 2, 5, 7, 18





IR Projects – Site 22

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Site 22 Overview

- 531 acres
- 14 buildings
- 116 magazines
- Arsenic & endrin in surface soil

Recent Accomplishments

- Final Proposed Plan – March 2010
- Public Meeting – April 14, 2010
- Draft Record of Decision – October 2010

Next Steps

- Draft Final Record of Decision – April 2011
- Final ROD – May 2011
- Draft Remedial Design – August 2011



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IR Projects – Site 22A

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Site 22A Overview

- 504 acres
- 5 magazine areas (Groups 1-5)
- 103 magazines
- Arsenic in surface soil

Recent Accomplishments

- Final Feasibility Study – March 2011

Next Steps

- Proposed Plan – November 2011
- Draft Record of Decision – May 2012



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IR Projects – Site 27

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Site 27 Overview

- Buildings IA-20 and IA-36
- PCBs and metals in soil

Recent Accomplishments

- TCRA field work – Oct 2008 to September 2010
- Draft Removal Action Completion Summary Report – January 2011



Next Steps

- Final Removal Action Completion Summary Report – May 2011
- Proposed Plan– March 2012

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IR Projects – Site 29

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Site 29 Overview

- Former munitions re-work facility
- VOCs in soil and groundwater

Recent Accomplishments

- Final Remedial Investigation – March 2011
- Final Treatability Study Work Plan – March 2011



Next Steps

- Treatability Study field work – Spring 2011
- Draft Feasibility Study – September 2011

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IR Projects – SWMUs 2, 5, 7, 18

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SWMUs 2, 5, 7, and 18 Overview

- Groundwater contamination (VOCs)
- SWMU 2 –Fire Station
- SWMU 5 –Locomotive Repair Shop
- SWMU 7 –Paint Shop
- SWMU 18 –Steam Cleaning Facility



Recent Accomplishments

- Final Record of Decision – July 2010
- Final Remedial Design – February 2011

Next Steps

- Final Remedial Action Work Plan – October 2011
- Remedial action (air sparging, soil vapor extraction) – Begin Construction in October 2011

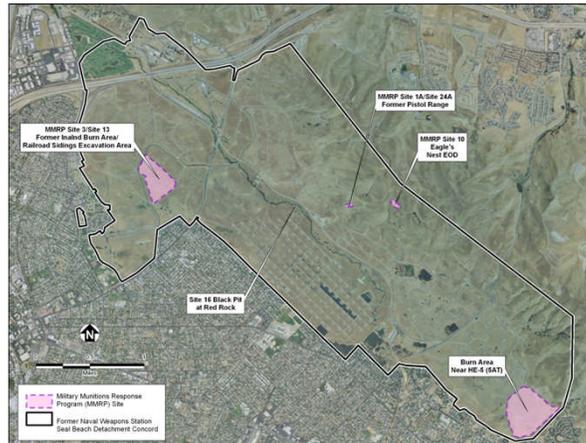
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Munitions Response Program Projects

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- MMRP Site 3/Site 13 - Former Inland Burn (FIB) Area/Railroad Sidings Excavation Area
- MMRP Site 10 - Eagle's Nest EOD
- MMRP Site 1A/Site 24A – Former Pistol Range
- Site 16 Black Pit at Red Rock (No Further Action)
- Burn Area Near HE-5 (5AT) (No Further Action)



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MMRP Projects – Site 24A

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Site 24A Former Pistol Firing Range Overview

- Approximately 2 acres
- Used as a pistol range - early 1950s - 2005

Recent Accomplishments

- Final Site Inspection Report – August 2010
- Draft Engineering Evaluation/Cost Analysis (EE/CA) – November 2010
- Trapping for CTS and CRLF



Next Steps

- Final EE/CA – May 2011
- Final Action Memo and Removal Action Work Plan – November 2011
- Perform removal action – September 2011

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MMRP Projects – Black Pit and HE-5

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Black Pit At Red Rock and HE-5 Burn Area Overview

- Suspected munitions areas – no munitions or contamination identified

Recent Accomplishments

- Final Site Inspection – June 30, 2010
- No further action concurrence – December 2010

Next Steps

- None, sites are closed with no further action



Geophysical work at HE-5



Debris unearthed at Black Pit

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QUESTIONS?

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ATTACHMENT E

**BASEWIDE BIOLOGICAL PROGRAM UPDATE PRESENTATION
RESTORATION ADVISORY BOARD MEETING
FORMER NAVAL WEAPONS STATION SEAL BEACH
DETACHMENT CONCORD, CALIFORNIA**

APRIL 6, 2011

(12 Pages)



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Former Naval Weapons Station Seal Beach Detachment Concord

Biological Program Update

Restoration Advisory Board Meeting

Dennis Parker

BRAC Project Manager

April 6, 2011



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Presentation Overview

- General purpose of Biological Program
- General approach
- Target species
- Consultation with U.S. Fish and Wildlife and Cal Fish and Game
- Trapping Activities



General Purpose

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- Minimize potential impacts to listed species and critical habitats from planned environmental field work
 - State and/or Federally Threatened, Endangered, Proposed Threatened, Proposed Endangered
 - Bald and Golden Eagle Protection Act
 - Migratory Bird Treaty
- Coordinate efforts with U.S. Fish and Wildlife Service (USFWS) and California Department of Fish and Game (CDFG)

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General Approach

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- Evaluate if listed species may be present at each site
 - Are there barriers to dispersal?
 - Are burrows present/what is their density?
- Designate which field work activities are likely to adversely impact listed species or critical habitats
- Evaluate how proposed field work may impact listed species
- Document Determinations
 - Informal Consultation
 - Formal Consultation
- Develop and implement a plan to mitigate potential impacts to listed species

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California Tiger Salamander (CTS)

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- **Ambystoma Californiense**
 - Federal Threatened
 - State Threatened
- Aquatic breeding habitat
 - Stock ponds
 - Vernal pools**
 - Slow-moving streams
- Upland Aestivation habitat
 - Annual Grasslands**
 - **Ground Squirrel Burrows**
 - Savannah
- Basewide



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California Red-Legged Frog (CRLF)

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- **Rana draytonii**
 - Federal Threatened
 - State Species of Special Concern
- Aquatic breeding habitat
 - Perennial and ephemeral ponds
 - Slow-moving creeks
- Upland Aestivation habitat
 - Annual Grasslands**
 - **Ground Squirrel Burrows**
 - Savannah
- Basewide



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Golden Eagle

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- **Aquila Chrysaetos**

- Bald Golden Eagle Protection Act (Federal)
- Migratory Bird Treaty Act (Federal)
- State Fully Protected

- **Habitat**

- Desert scrub
- Grasslands
- Savannas

- **Nesting**

- Oaks
- Pines
- Power towers
- Cliff Faces
- **Eucalyptus (Nest near Eagle's Nest)**



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Alameda Whipsnake (AWS)

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- **Masticophis lateralis euryxanthus**

- Federal Threatened
- State Threatened

- **Habitat**

- Coastal scrub
- Chaparral
- Rocky outcrops
- Forest/woodland
- **Annual Grassland**
- Riparian

- **South of Bailey Road**



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Consultation

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- In accordance with Section 7 of Endangered Species Act
- Evaluated potential effects to listed species and critical habitats from intrusive activities to be performed in 2011
- Determined non-intrusive activities and intrusive activities on paved surfaces will have no impact on listed species
- Informal Consultation
 - Field work that is “not likely to adversely impact” listed species
 - August 2010 - Letter to USFWS and CDFG August 2010
- Formal Consultation
 - September 2010 - Biological Assessment
 - Biological Opinion

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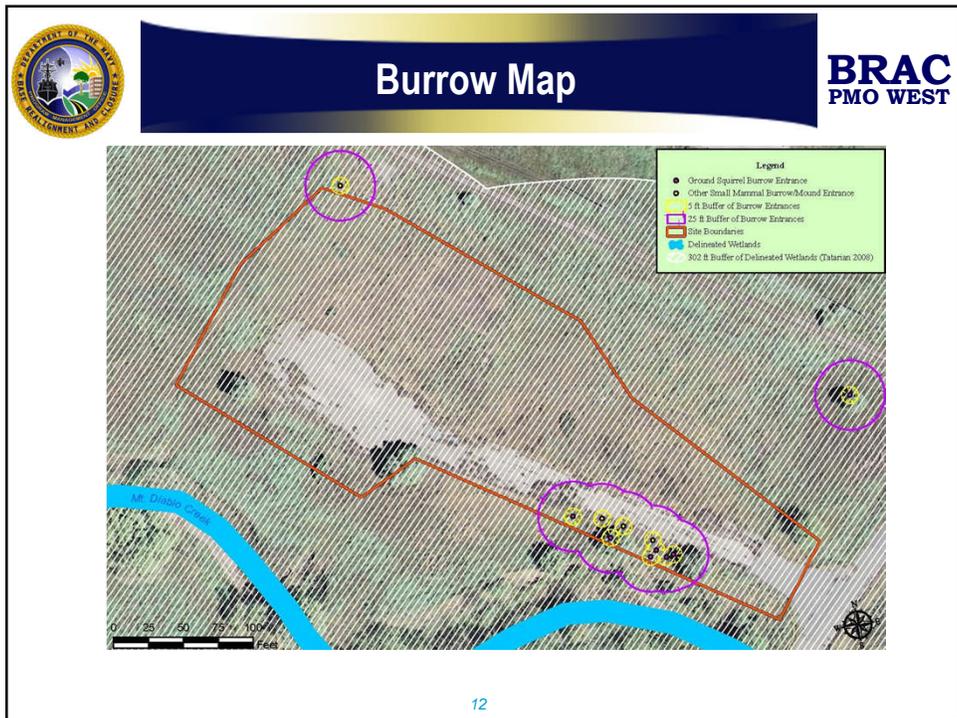
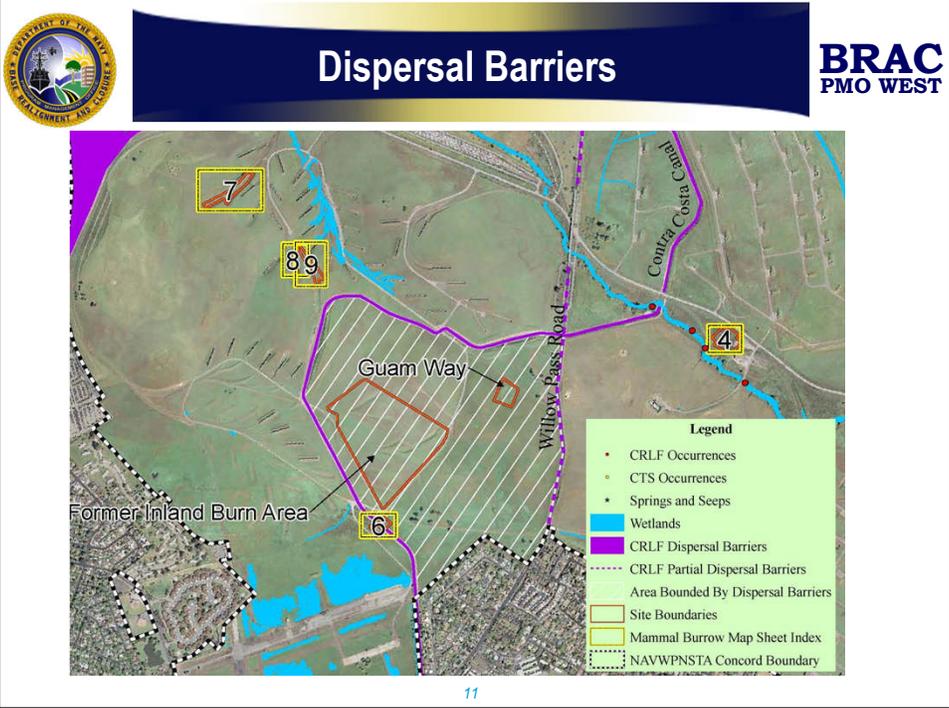


Informal Consultation

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- Letter to USFWS and CDFG in August 2010
 - Reasons “Not Likely to Impact”
 - Site is surrounded by dispersal barriers
 - Contra Costa Canal (complete)
 - Willow Pass Road (partial)
 - Intrusive Work can be performed at a sufficient distance from burrows
 - Keep 25 feet away from burrows for intrusive activities extending greater than 1 foot below ground surface
 - 5 feet away from burrows for intrusive activities less than 1 foot below ground surface
- Field work identified in letter was performed in September/October 2010

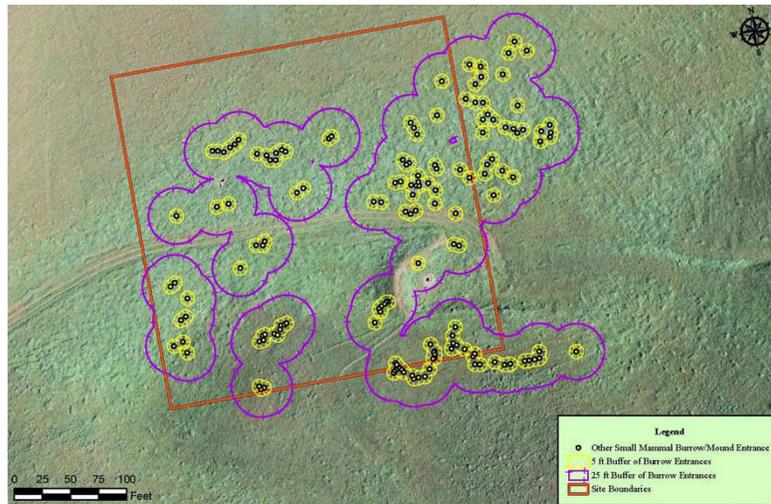
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Burrow Map

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Formal Consultation

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• **Biological Assessment** issued in September 2010

–Likely to adversely impact

- CTS – basewide
- CRLF – basewide
- AWS – south of Bailey Road

–Not likely to adversely impact

- Golden Eagle - basewide

–Recommendations to minimize impacts

- Trap for CTS and CRLF in Winter 2010-2011
- Trap for AWS at Bermed Area in Spring 2011
- Avoid field work at Eagle's Nest during nesting season

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Trapping

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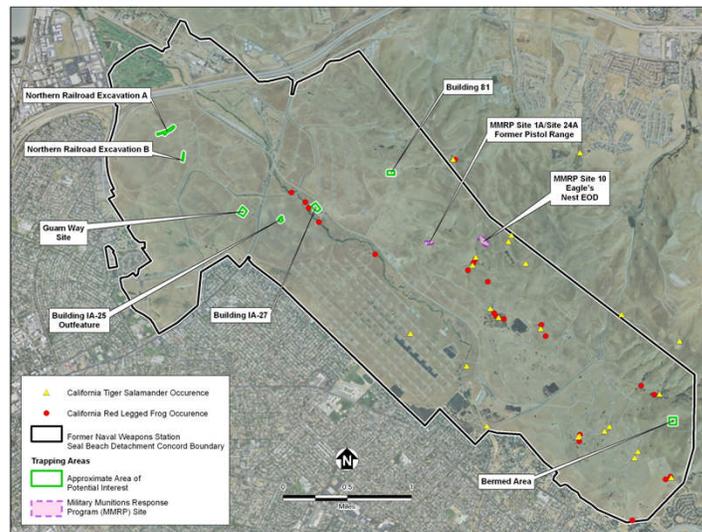
- Met with USFWS November 2010 to discuss trapping strategy
- December 6, 2010 - Submitted Trapping Plan for CTS and CRLF to USFWS
 - 40-inch ERTEC (mesh) fence, buried 6 inches, folded over top to discourage climbing into exclusion area
 - Traps every 30 feet along fence
 - Two gallon buckets buried flush with ground
 - Lids to exclude animals when not trapping
 - Electric fences also installed at most sites to exclude cattle
- December 7, 2010 - USFWS authorized performing trapping activities
- Trapping originally planned at 8 sites
- One site (Guam Way) added in Mid-January
- Trapping plan for AWS is currently being developed

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Trapping Sites

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Trapping Setup

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Trapping Setup

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Trapping Procedures

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- Open traps in afternoon
 - If 70% or greater chance of rain
 - If 90% or greater relative humidity (first 20 trapping days only)
- Next Morning
 - Examine each trap
 - Identify and weigh any trapped animals
 - Move CTS and CRLF to nearest burrow outside of fence
 - Move any other trapped animals outside of fence

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CTS/CRLF Trapping Activities

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CTS/CRLF Trapping Activities

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CTS/CRLF Trapping Activities

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Trapping Results

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- Seventeen CTS have been trapped at Eagle's Nest
 - 8 adults: 4 male and 4 female
 - 6 sub-adults
 - 3 young of the year
- No CTS have been trapped at any other sites
- No CRLF have been trapped at any sites
- Other non-target species have been trapped
 - Botta's pocket gopher
 - California vole
 - Deer/pocket mouse
 - California slender salamander
 - Sierran tree frog
 - Western toad

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QUESTIONS?

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