



TETRA TECH EM INC.

August 24, 2010

Dear RAB Members,

On behalf of the Navy, enclosed please find the June 2, 2010 final RAB meeting minutes for your information and records.

If there are any questions regarding the enclosed minutes, please contact Carolyn Hunter at (510) 302-6297 or [Carolyn.hunter@tetratech.com](mailto: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**  
**JUNE 2, 2010**

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 June 2, 2010, at the Concord Police Station in Concord, California. Agreements and action items are described by topic under Sections I through IV and are summarized in Section V. 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 Community Co-Chair, Mary Lou Williams (Concord resident), called the RAB meeting to order and initiated a round of introductions for attendees.

**Public Comments**

Ms. Williams opened the floor to public comments. No comments were received.

**II. RAB ANNOUNCEMENTS**

Ms. Williams and Kathy Stewart (Navy co-chair) opened the floor to RAB announcements.

Ms. Stewart reviewed an ongoing action item from the RAB meeting on October 7, 2009. All action items were completed except for action item #2: *Charles Perry (Navy former Lead Remedial Project Manager [RPM]) will check Navy documentation on the burrowing owl in the Inland Area.* Ms. Stewart said that a small number of burrowing owls have been observed in the Inland Area. One sighting occurred southeast of Bailey Road in 2007. Burrowing owls were also observed in three locations in 1998/1999; six locations in the fall and winter of 1992/1993; and one location in 1981/1982. Additionally, during the 11 years of the Central Contra Costa County Christmas bird count, a burrowing owl was seen once. Overall, although the Inland Area seems like good habitat for burrowing owls, they have been seen in small numbers and only during the non-breeding season. Ms. Stewart said she will send the burrowing owl update to Kent Fickett (Mount Diablo Audubon Society) since he was not present at the meeting.

### **RAB Open Comment Period**

Ms. Williams opened the RAB comment period. Edi Birsan (Concord resident) said that he provided an article outlining the Site 22 Proposed Plan (PP) public meeting to the *Concordian*. Mr. Birsan asked for an update on when the Navy will respond to the public comments that were provided during the Site 22 PP meeting. Ms. Stewart said that the Navy is working on a responsiveness summary that will address all of the verbal and written comments that were provided on the Site 22 PP. The responsiveness summary will be an appendix to the Site 22 Record of Decision (ROD), which will be issued as a draft document in September 2010. Paul Choisser (Concord resident) asked how many public comments the Navy received on the Site 22 PP. Ms. Stewart said that approximately 15 people/organizations had commented on the Site 22 PP.

Mr. Birsan said that he received numerous telephone calls and e-mails at the end of May 2010, when the eucalyptus trees were being removed from the Inland Area. Mr. Birsan asked for an update on the project. Residents near the Inland Area are concerned with the tree removal project. Ms. Stewart said that the U.S. Forest Service is leading the tree removal project for fire safety and to comply with its lease with the Navy. The tree removal project will be completed by June 18, 2010. Ms. Stewart said the Forest Service prepared a fact sheet that she will provide electronically to the RAB. Michael Wright (City of Concord) said that the Forest Service is a tenant of the Navy. The tree removal was not a city project. Mr. Wright said that the city encouraged the Forest Service to notify the community of the tree removal before its start date. In February 2010, the Forest Service held a public meeting to review the tree removal project. Since the tree removal project did not begin immediately after the public meeting in February 2010, it may have been forgotten. Mr. Wright said that the city provided the Forest Service fact sheet on the tree removal project to its e-mail distribution lists. The Forest Service worked with the California Department of Fish and Game (CDFG) to ensure the tree removal project would not affect birds during the nesting season. Mr. Choisser said that endangered species may be in the trees, such as the white-tailed kite, which would be affected during the tree removal. Mr. Wright said that the Forest Service consulted CDFG in addition to other regulatory agencies before the tree removal began. Katherine Duno-Luttjoahon (Concord resident) thanked Mr. Wright for the tree removal information.

### **Action Items**

1. Ms. Stewart will provide an update on the burrowing owls in the Inland Area to Mr. Fickett in an e-mail.
2. Ms. Stewart will provide the RAB with the Forest Service fact sheet on the tree removal project via e-mail.

### **III. RPM UPDATE**

#### **Navy Update**

Ms. Stewart reviewed the Navy RPM update handout, which is included as Attachment C.

- The Navy issued the Draft Final Remedial Investigation Work Plan for the Eagle's Nest Explosive Ordnance Disposal Site and Former Inland Burn/Railroad Sidings Excavations Site.
- The Navy met with the U.S. Fish and Wildlife Service (FWS) and CDFG to discuss ways to address the presence of the California tiger salamander and the California red-legged frog during upcoming field work.
- Lora Battaglia (Navy RPM) announced that she will be moving to support the Alameda team. Ms. Battaglia thanked the regulatory agencies and RAB for their support. Ms. Stewart introduced Valerie Harris (Navy RPM) as a new member to the Inland Area team.

#### **Department of Toxic Substances Control (DTSC)**

Jim Pinasco (DTSC RPM) said that he has been working on obtaining DTSC management signatures for the Solid Waste Management Unit (SWMU) Sites 2, 5, 7, and 18 ROD.

#### **San Francisco Bay Regional Water Quality Control Board (Water Board)**

Alan Friedman (Water Board RPM) said that he has been reviewing Navy documents and attending various meetings. Mr. Friedman said the Water Board signed the SWMU Sites 2, 5, 7, and 18 ROD. Mr. Friedman said he also attended a city reuse meeting for the Inland Area.

#### **City**

Mr. Wright said the city is commencing the study sessions for amending the Inland Area reuse plan. The City Council will be voting on the reuse plan in the first quarter of fiscal year 2011. Once the City Council votes on the reuse plan, the city will begin working with the Navy to draft the environmental impact statement.

### **IV. SITE 24A PISTOL FIRING RANGE FIELD WORK UPDATE PRESENTATION**

Dennis Parker (Navy RPM) presented an update on the field work at the Site 24A Pistol Firing Range (Attachment D).

Shon Wolf (Clyde resident) asked if the Navy used metal detectors at Site 24A to locate items beneath the soil. Mr. Parker confirmed the Navy used metal detectors at Site 24A. Metal was detected beneath the soil at 35 locations at Site 24A. Mr. Wolf asked if the Navy found brass since it is used in ammunition casings. Mr. Parker said that brass is not a metal of concern at Site 24A and that brass casings are not considered munitions and explosives of concern (MEC).

Ms. Williams asked if the firing range was used in 2005. Mr. Parker said the Navy has documentation that the Site 24A Pistol Firing Range was used in 2005. Mr. Wright said that the Concord and Pittsburg Police Departments previously used the firing range.

Ms. Williams asked why there was timber soaked in creosote at the site. Mr. Parker said former railroad ties were used to support the berm. The ties were soaked with creosote to deter termites from damaging the railroad lines. The target railroad ties are in poor condition from being hit by bullets and general wear and tear.

Mr. Birsan said the firing range was used for at least 50 years. He asked whether there were past cleanup actions at the site and if the Navy has a record of where the debris was taken. Mr. Parker stated there are Navy records indicating soil on the target berm was changed in the late 1970s or early 1980s. However, there is no record of where soil and debris from the old berm was disposed. Disposal areas located in the Inland Area may contain debris from the firing range. Mr. Birsan asked if there were records for grenade launching at the firing range. Mr. Parker did not know of any specific records regarding grenade launching activities. Metal detectors should be able to detect the fragments of grenades that remain at the firing range.

Mr. Parker said the Navy plans to remove all munitions debris, regardless of whether it still contains explosives, at the Site 24A Pistol Firing Range. Mr. Friedman said that, regardless of the city's reuse plan, the Navy will remove all of the munitions found at the site. Beth Byrne (Concord resident) said that she hopes the Navy will recycle any metal that is found during the removal action.

Mr. Wright asked how the Navy delineated the boundary of Site 24A. Mr. Parker said the Navy reviewed past records and drawings and conducted visual inspections of the site to establish the boundary. The Navy has also visually inspected some areas just outside the boundary of Site 24A to ensure all of the munitions are found and removed.

Mr. Wright asked when the wildlife agencies become involved in a non-time critical removal action. Mr. Parker said the Navy has been in communication with FWS and CDFG throughout the process. Mr. Wright asked if the Navy takes on the responsibility for munitions found at the site in the future. Mr. Parker said the Navy will be responsible for addressing any munitions or munitions debris found during future actions.

Mr. Birsan asked if there was another firing range in the Inland Area. Mr. Wolf said that the other firing range is in the Tidal Area. Mr. Birsan suggested the Navy investigate the past removal practices of the firing range in the Tidal Area.

Mr. Choisser asked where the munitions debris will be taken. Mr. Parker said they will be transported to an off-site location that is qualified to accept munitions.

## **V. OTHER TOPICS, NEXT MEETING, AND ACTION ITEMS**

Ms. Stewart said the next official Inland Area RAB meeting will take place on August 4, 2010.

### **RAB Site Tour**

Ms. Stewart asked if the RAB would be interested in attending a site tour. Mr. Birsan said that

he would be interested in a tour of a bunker in Site 22A. The RAB agreed that Saturdays and evenings during the summer would be good times for a site tour.

Mr. Choisser asked if the fairy shrimp in the vernal pools in the Inland Area are being monitored since they are an endangered species. Ms. Stewart said the regulatory agencies are engaged in site-specific biological issues related to the various Navy projects.

Mr. Birsan asked for an update on the site that Phillip Ramsey (U.S. Environmental Protection Agency [EPA] RPM) was interested in adding to the Navy's environmental restoration program. Melinda Garvey (EPA RPM) said that it is being addressed as an Area of Potential Interest site called the Guam Way Storage Area.

Ms. Stewart asked for a list of topics for the RAB meeting on August 4, 2010. Presentation topics suggested include:

- Former Inland Burn Site update
- Site 22 update

Mr. Birsan asked for an update on the railcar asbestos project. Ms. Stewart said that the Navy's contractor assessed the amount of asbestos in the railcars. More asbestos will require removal than was originally expected. The Navy's contractor will need to rebid the project as a result. Details on how the asbestos will be removed and disposed of will be provided in the work plan once a contract is awarded. Ms. Stewart will provide an update to the RAB when more information is available.

Ms. Williams said that if anyone is interested in visiting the Golden Gate Cemetery where victims of the Port Chicago explosion are buried, maps of the gravesites are available at the cemetery's office.

Ms. Stewart reminded the RAB that she is available between meetings to answer questions and to contact her with any questions or concerns. The RAB can contact Ms. Stewart via telephone or e-mail.

| <b>No.</b> | <b>Action Item</b>  | <b>Target Date for Completion</b> | <b>Responsible Person</b> | <b>Completion Date (or Status)</b> |
|------------|---|-----------------------------------|---------------------------|------------------------------------|
| 1          | Ms. Stewart will provide an update on the burrowing owls in the Inland Area to Mr. Fickett in an e-mail.    | 6/3/10                            | K. Stewart                | This action item was completed.    |
| 2          | Ms. Stewart will provide the RAB with the Forest Service fact sheet on the tree removal project via e-mail. | 6/3/10                            | K. Stewart                | This action item was completed.    |

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

**JUNE 2, 2010**

(1 Page)

**ATTENDEES AND AFFILIATIONS  
 RESTORATION ADVISORY BOARD MEETING  
 FORMER NAVAL WEAPONS STATION SEAL BEACH  
 DETACHMENT CONCORD, CALIFORNIA  
 JUNE 2, 2010**

| <u>Name</u>                   | <u>Affiliation</u>  | <u>Telephone</u> |
|-------------------------------|---------------------|------------------|
| Wayne Akiyama                 | Shaw Environmental  | (925) 288-2003   |
| Lora Battaglia                | Navy, BRAC PMO West | (619) 532-0968   |
| Beth Byrne                    | Concord Resident    | (925) 686-4815   |
| Harry Byrne                   | Concord Resident    | (925) 686-4815   |
| Edi Birsan*                   | Concord Resident    | (510) 812-8180   |
| Joanna Canepa                 | Tetra Tech          | (425) 877-2806   |
| Paul Choisser                 | Concord Resident    | (925) 270-3096   |
| Julie Crosby                  | Navy, BRAC PMO West | (619) 532-0929   |
| Katherine Duno-<br>Luttjoahon | Concord Resident    | (925) 676-3111   |
| Amy Estey                     | Shaw Environmental  | (925) 288-2091   |
| Alan Friedman                 | Water Board         | (510) 622-2347   |
| Melinda Garvey                | EPA                 | (415) 972-4184   |
| Valerie Harris                | Navy, BRAC PMO West | (619) 532-0981   |
| Carolyn Hunter                | Tetra Tech          | (510) 302-6297   |
| John Kaiser                   | Water Board         | (510) 622-2368   |
| Dennis Parker                 | Navy, BRAC PMO West | (619) 532-0954   |
| Jim Pinasco                   | DTSC                | (916) 255-3719   |
| Kathy Stewart                 | Navy, BRAC PMO West | (415) 743-4715   |
| Mary Lou Williams*            | Concord Resident    | (925) 685-1415   |
| Shon Wolf*                    | Clyde Resident      | (925) 686-5924   |
| Michael Wright                | City of Concord     | (925) 671-3019   |

---

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                   |
| Tetra Tech  | Tetra Tech EM Inc.                                     |
| Water Board | San Francisco Bay Regional Water Quality Control Board |

**ATTACHMENT B**

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

**JUNE 2, 2010**

(2 Pages)

## INLAND AREA AGENDA

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

Wednesday, June 2, 2010  
6:00 p.m. – 7:45 p.m.

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

---

- 6:00 – 6:15 Call to Order
- Welcome
  - Introductions/Agenda Review
  - Public Comment Period
- Lead: Community Co-chair
- 6:15 – 6:25 Announcements
- Review of Action Items
- Lead: Navy Co-chair
- 6:25 – 6: 50 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
- 6:50 – 7:20 Presentation: Site 24A Pistol Firing Range Field Work Update  
Navy: Dennis Parker, Remedial Project Manager (RPM)
- 7:20 – 7:35 Discussion: Possible Future RAB Tour  
Lead: Navy and Community Co-Chair
- 7:35 – 7:45 Meeting Evaluation and Topic Suggestions of Future Meetings  
Next RAB Meeting: August 4, 2010
- 7:45 Adjourn

*\*Next RAB Meeting\**

- *Inland Area: August 4, 2010*

-----  
*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: Ms. Kathy Stewart (415) 743-4715, [kathryn.stewart@navy.mil](mailto:kathryn.stewart@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**

**JUNE 2, 2010**

(1 Page)



***Navy Remedial Project Manager (RPM) Update for 2 June 2010 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, April 14, 2010

**Installation Restoration/Munitions Response Programs Sites**

- April 19, 2010 – Navy issued the Draft Final Remedial Investigation Work Plan for the Eagle's Nest Explosive Ordnance Disposal Site and the Former Inland Burn/Railroad Sidings Excavations Site.
- April 27, 2010 – EPA requested a 4-day extension on their review of the Draft Final Remedial Investigation Work Plan for Eagle's Nest Explosive Ordnance Disposal Site and the Former Inland Burn/Railroad Sidings Excavations Site. The extension resulted in a revised milestone delivery date from 17 May 2010 to 24 May 2010.
- May 11, 2010 – Navy met with the U.S. Fish and Wildlife Service and the California Department of Fish and Game to discuss ways to address the presence of the California tiger salamander and California red-legged frog during upcoming field work efforts.
- May 21, 2010 – EPA requested a 30-day extension on their review of the Draft Final Remedial Investigation Work Plan for Eagle's Nest Explosive Ordnance Disposal Site and the Former Inland Burn/Railroad Sidings Excavations Site. The extension resulted in a revised milestone delivery date from 24 May 2010 to 21 June 2010.
- June 1, 2010 – Navy requested a 47-day extension on submittal of the Draft Remedial Design for Solid Waste Management Unit Sites 2, 5, 7, and 18. The extension results in a revised milestone delivery date from 23 May 2010 to 9 July 2010.
- June 2, 2010 – RPMs met for a bi-monthly RPM meeting.

**Acronyms**

BRAC – Base Realignment and Closure Commission  
EPA – United States Environmental Protection Agency  
EOD – Explosive Ordnance Disposal  
RAB – Restoration Advisory Board  
RPM – Remedial Project Managers

**ATTACHMENT D**

**SITE 24A PISTOL FIRING RANGE FIELD WORK UPDATE PRESENTATION  
RESTORATION ADVISORY BOARD MEETING  
FORMER NAVAL WEAPONS STATION SEAL BEACH  
DETACHMENT CONCORD, CALIFORNIA**

**JUNE 2, 2010**

(18 Pages)



# Site 24A Former Pistol Range Site Inspection

Former Naval Weapons Station  
Seal Beach Detachment Concord

Restoration Advisory  
Board Meeting  
June 2, 2010



# Presentation Overview



- Site History
- Conceptual Site Model
- Site Inspection
- Path Forward
- Questions



## Site History



- Pistol Range active from 1950s to 2005
- Also used for training on 40-mm Grenade Launchers
- Fill material placed on Target Berm in late 1970s or early 1980s
- Remedial Investigation performed in 1995 under IR Program
  - Limited Scope did not address munitions concerns
- Primary site features
  - Firing Line/Range Floor
  - Target Berm
  - Grenade Impact Area

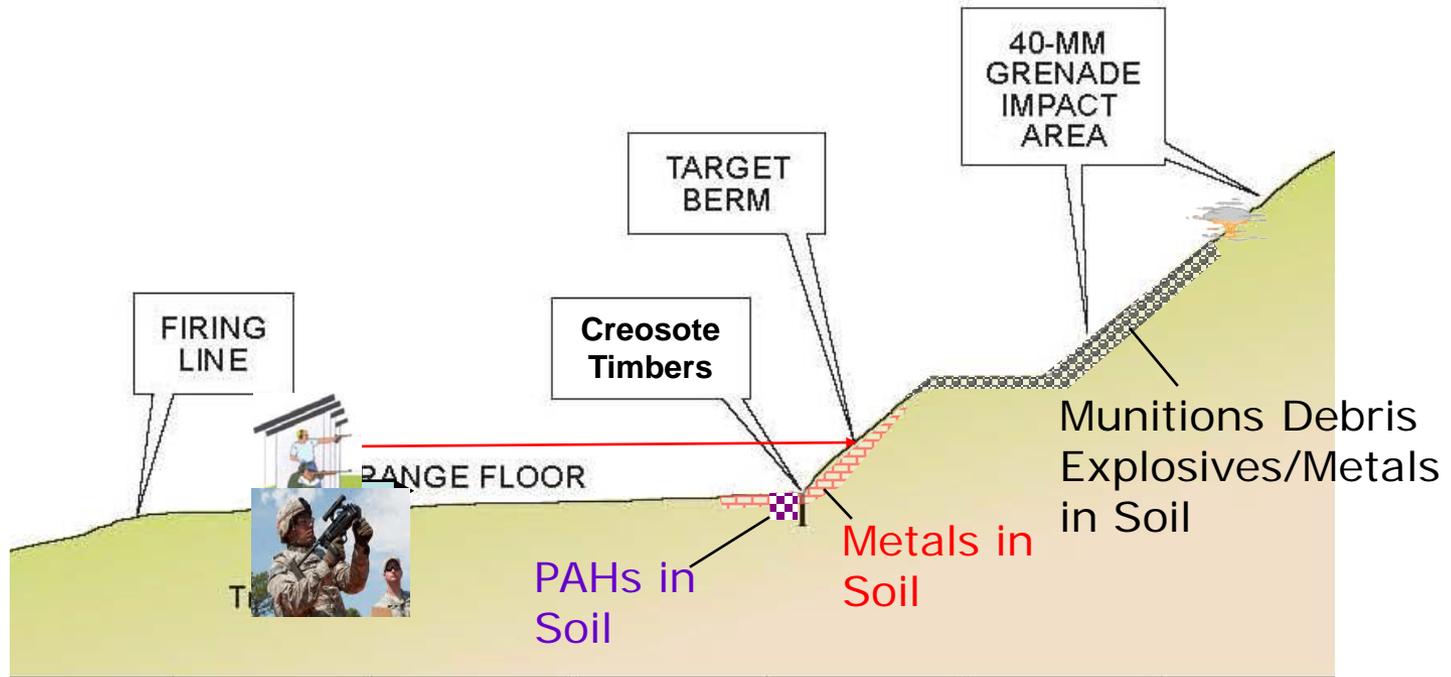


# Site Features





# Site Conceptual Model





# Site Inspection Field Work



- Surface Sweep for Grenades/Munitions Debris
  - Transects with visual observations of surface
  - Metal detector to locate buried Munitions Debris
  - Results used to support locations for soil sampling
- Soil Sampling
  - Metals
  - Explosives
  - Polynuclear aromatic hydrocarbons (PAHs) – Adjacent to Target Berm retaining wall
- Test Pits
  - 5 pits dug in Target Berm



## Site Inspection Results



- Surface Sweep
  - 269 pieces of munitions debris associated with 40-mm grenades identified on surface
  - None contained unused explosive component
  - Approximately 35 subsurface anomalies were identified



# Site Inspection Results



## Munitions Debris on Surface





# Site Inspection Results



## Munitions Debris Examples





# Site Inspection Results



- Soil Sampling
  - Explosives only detected in 2 samples
    - Only detected in 2 samples
      - 2,4-Dinitrotoluene (Range Floor) and 4-Nitrotoluene (Target Berm)
    - Below applicable screening levels
    - None detected in Grenade Impact Area
  - PAHs
    - Detected in samples collected adjacent to creosote-treated timbers
    - Concentrations exceed screening levels
    - Result of disintegration of creosote-treated timbers



# Retaining Wall (Creosote-Treated Timbers)





## Site Inspection Results

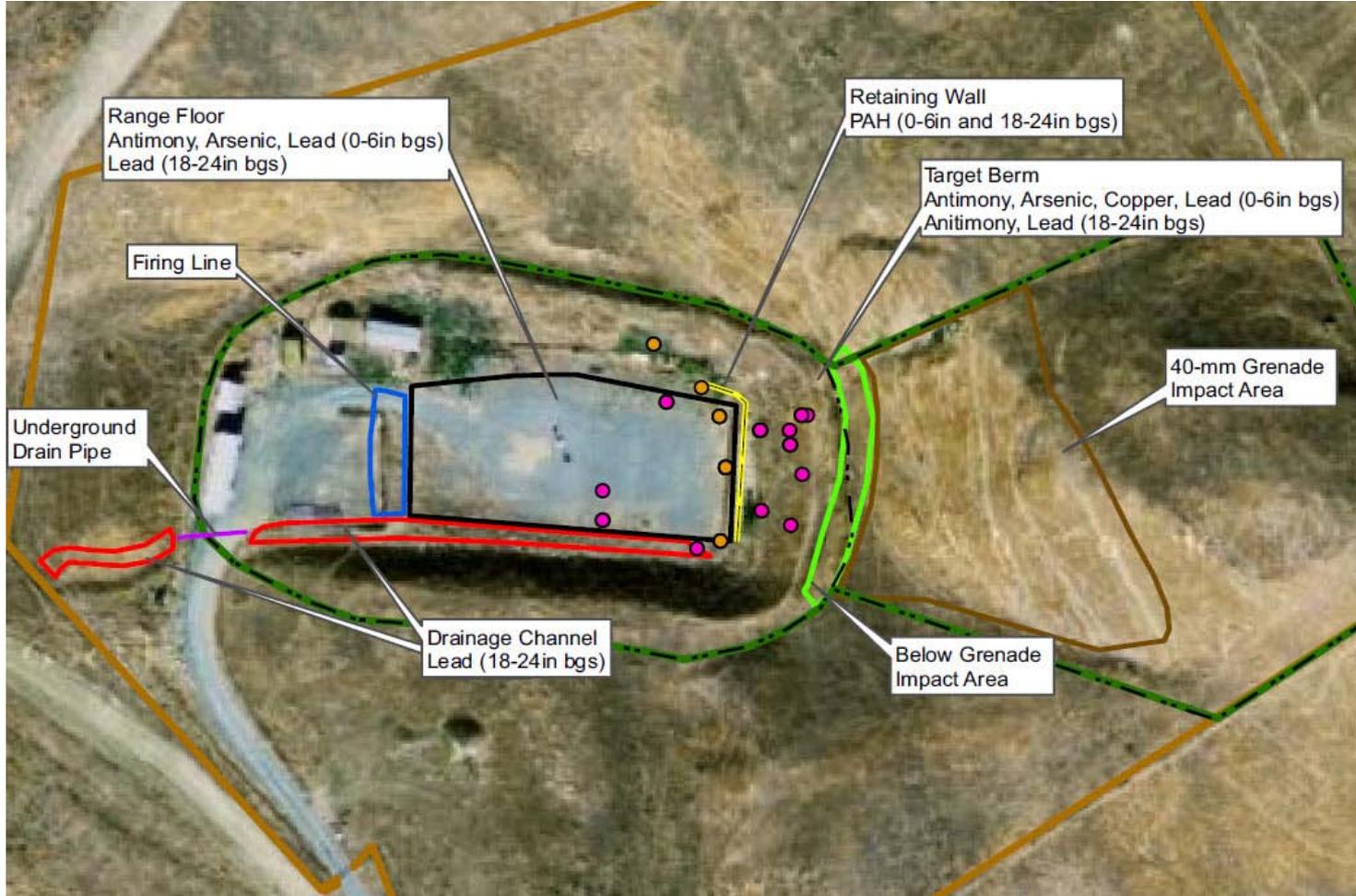


- Soil Sampling (cont.)
  - Metals
    - 10 metals detected at concentrations exceeding human-health and/or ecological screening levels
    - 4 metals (Antimony, Arsenic, Copper, Lead) were detected at concentrations exceeding both human-health and/or ecological screening levels
    - These four metals are associated with bullets
    - Highest concentrations are in Target Berm and adjacent areas



# Site Inspection Results

## Metals and PAHs Exceeding Screening Levels





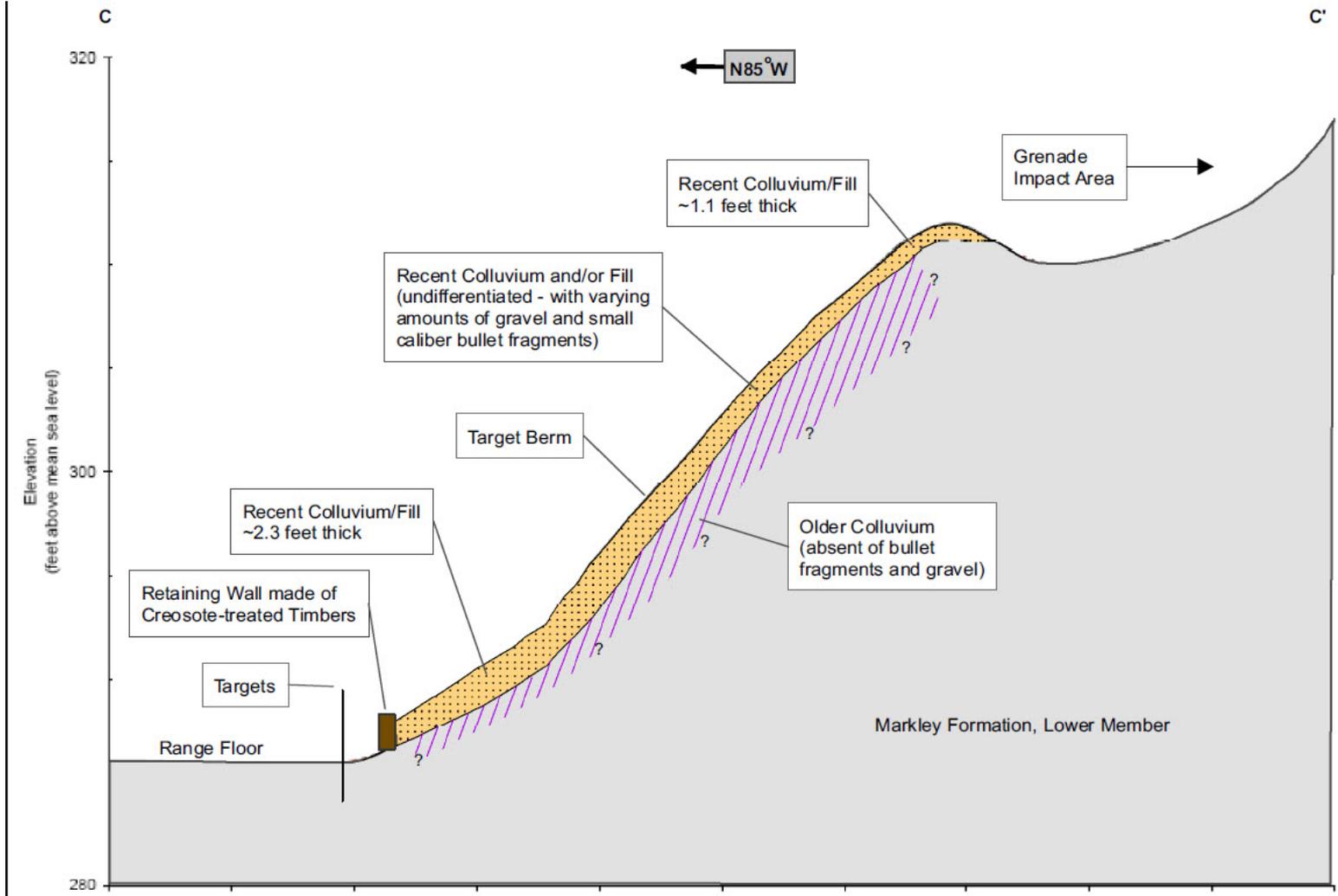
## Site Inspection Results



- Test Pits
  - 5 test pits excavated in the Target Berm to evaluate the depth and nature of fill material placed on target berm
  - Thickness of fill ranges from 1.1 (top) to 2.3 (bottom) feet
  - Fill has varying amounts of bullets and gravel
  - Native material has no bullets or gravel



# Target Berm Profile





## Conclusions

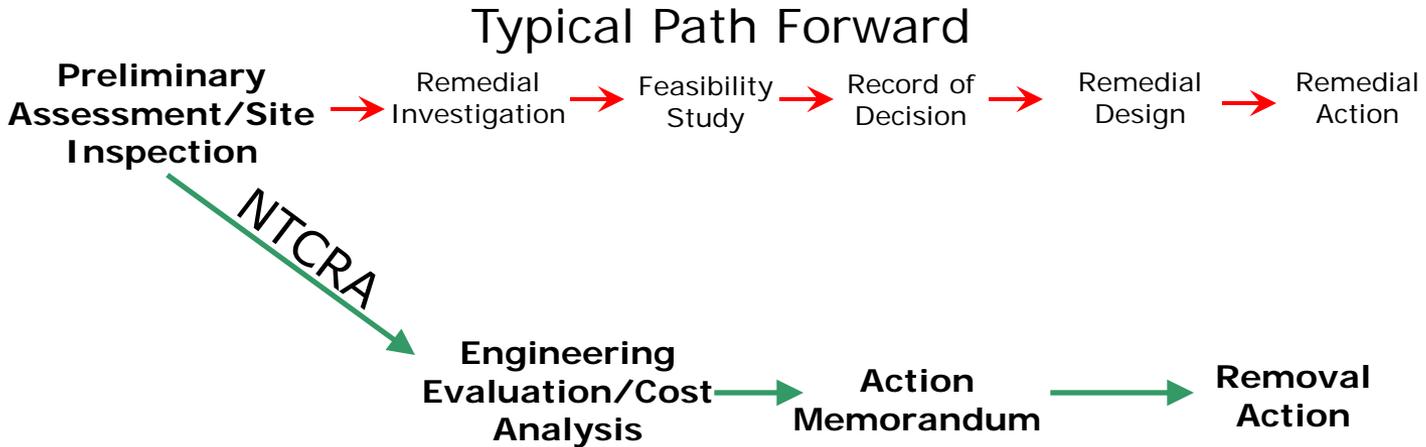


- Munitions debris is present at Site 24A
  - Unlikely to present an explosive hazard
  - Explosive contamination not an issue
- Metals concentrations exceed screening levels
  - May present unacceptable risks to human health and/or the environment
  - Bullets in and adjacent to Target Berm source of metals contamination
- PAH concentrations exceed screening levels
  - Leaching from creosote-treated timbers is source



# Path Forward

## Non Time-Critical Removal Action



- Why is NTCRA appropriate for Site 24A
  - Source of contamination can be removed quickly and effectively
  - Can limit human exposure to site risks
  - Removal Action is most expeditious way to remediate site



## Path Forward



# Non Time-Critical Removal Action (Steps)

- **Engineering Evaluation/Cost Analysis (EE/CA)**
  - Elements of RI and FS
  - Baseline risk assessment to determine clean-up levels for soil
  - Identify Removal Action Objectives
  - Evaluate removal alternatives and recommend
  - Public comment
- **Action Memorandum**
  - Similar to ROD
  - Document approval and describe the Removal Action
- **Removal Action**
  - Remove munitions debris and Target Berm fill material
  - Remove soil if contaminant concentrations indicate unacceptable risk



# Questions



# Questions?