



REMEDIAL ACTION PROPOSED FOR

GROUP 2:

CALIFORNIA STATE UNIVERSITY

MONTEREY BAY OFF-CAMPUS MUNITIONS

RESPONSE AREA

Former Fort Ord, Monterey County, California

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PUBLIC MEETING – WEDNESDAY, JUNE 19, 2013

Agenda

- 6:00 – 6:15 Open House
- 6:15 – 7:00 Presentation
- 7:00 – 7:15 Question and Answer
- 7:15 – 7:20 Break
- 7:20 – 8:00 Public Comment Period

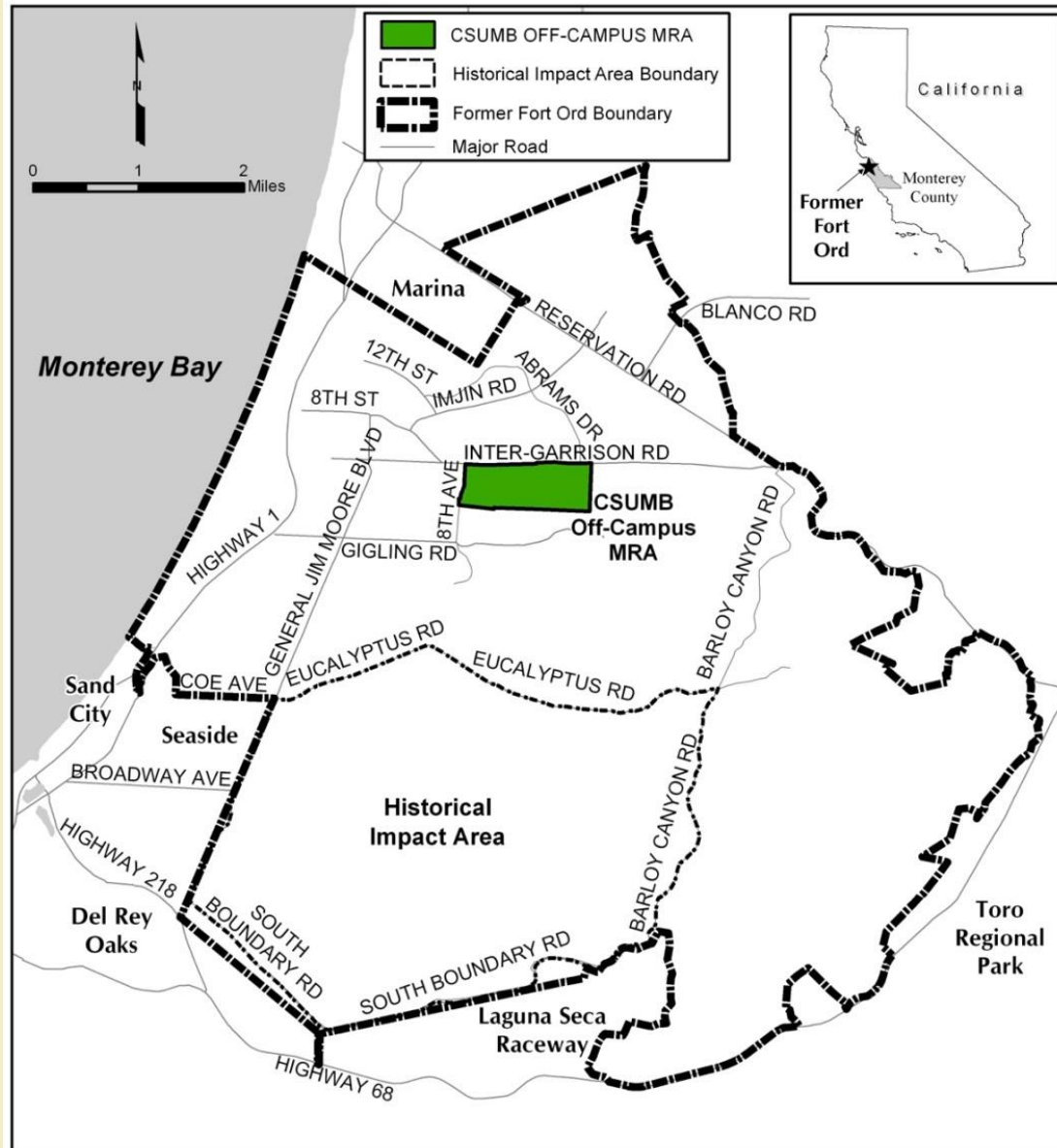
Meeting Guidelines

- Please hold questions and comments until after the presentation
- To provide written comments fill out a comment sheet and hand it in tonight or mail in by the close of the comment period
- To provide verbal comments tonight, please fill out a speaker card
- Please respect established time limits
- Listen to and respect all participants
- Silence cell phones and pagers

Meeting Purpose

- Present information on the Remedial Action Proposed for the Group 2 Munitions Response Area (MRA)
 - California State University Monterey Bay (CSUMB) Off-Campus MRA
- Accept public comments on the Group 2 Proposed Plan

Group 2: CSUMB Off-Campus Munitions Response Area



CSUMB Off-Campus MRA

Record of Decision Process

Conducted Munitions and Explosives of Concern (MEC) Removals and Remedial Investigation/Feasibility Study (RI/FS). Prepared RI/FS Report
(Final: February 18, 2013)

Proposed Plan Issued
(June 05, 2013)

Provided notice of public comment period and public meeting in a major local newspaper and distribute for review.

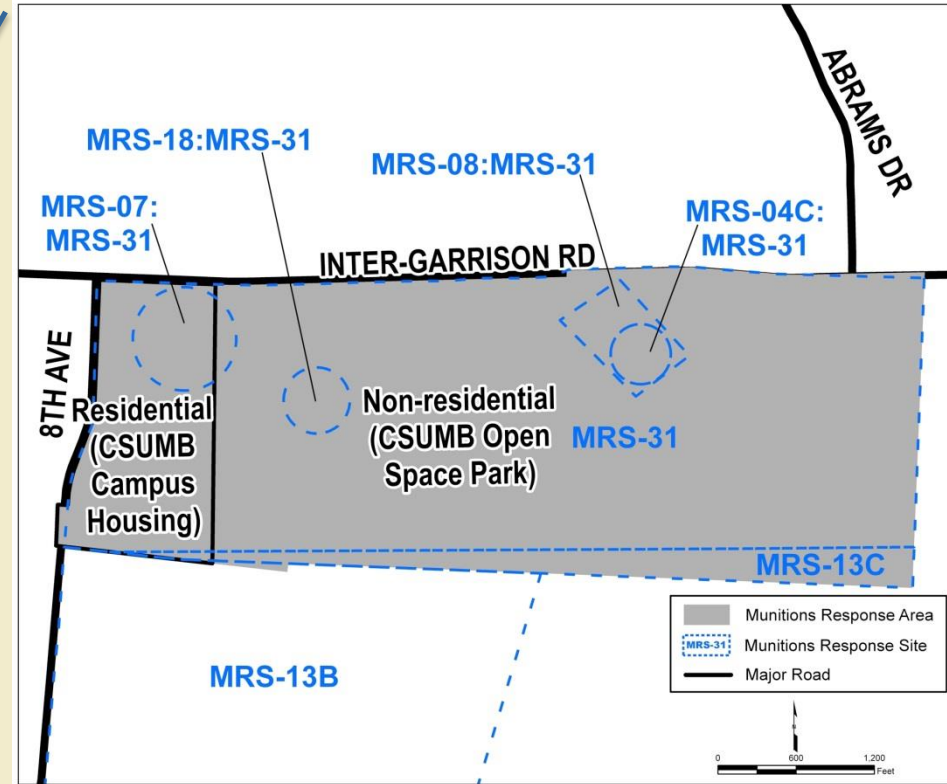
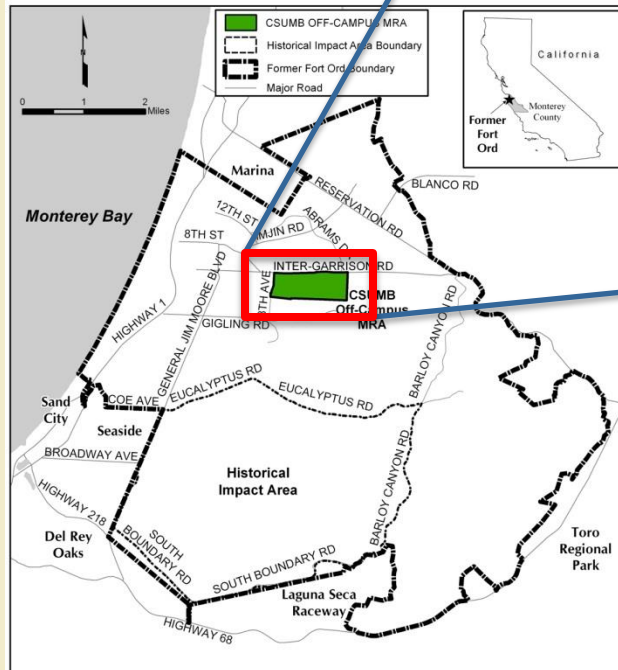
Proposed Plan public meeting and comment period
(June 12 – July 12, 2013)

Record of Decision/agency-approved action and responses to public comments

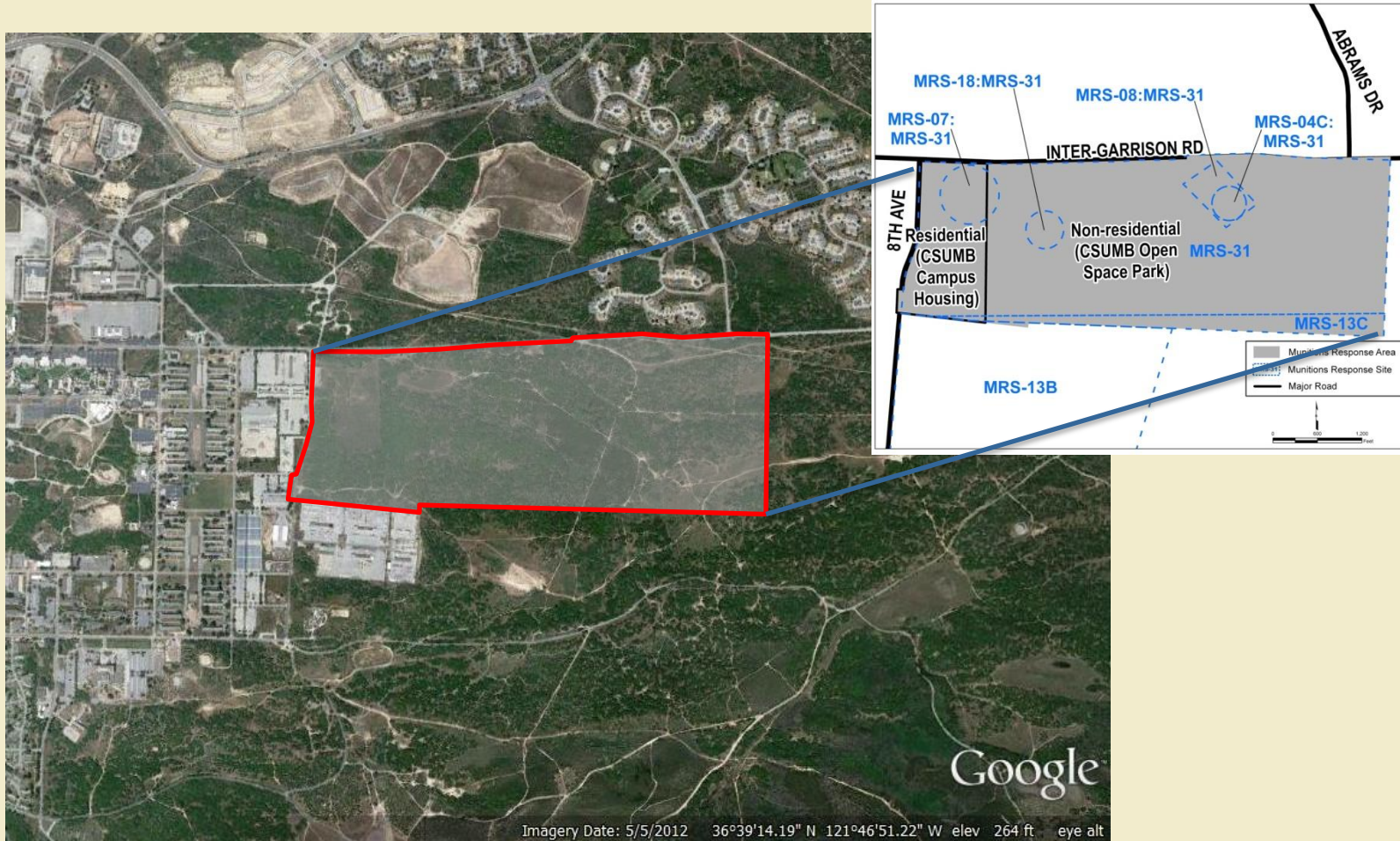
Presentation Topics

- Group 2 CSUMB Off-Campus Munitions Response Area
- CSUMB Off-Campus MRA Remedial Investigation / Feasibility Study (RI/FS)
- Proposed Plan with Army's Preferred Remedial Alternative
- How to Provide Comments

CSUMB Off-Campus MRA



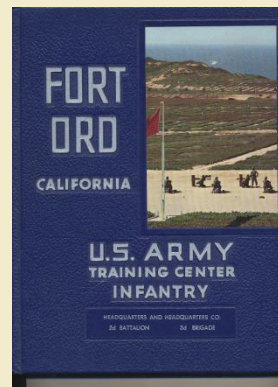
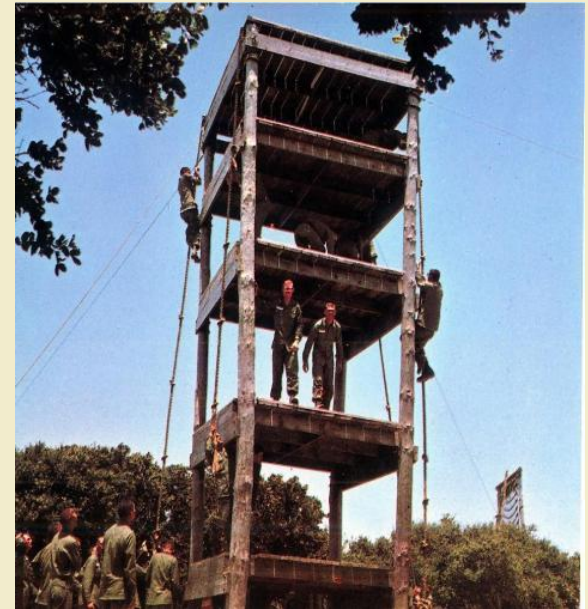
CSUMB Off-Campus MRA



- 333 acres located in north central portion of Fort Ord adjacent to Inter-Garrison Road and 8th Avenue

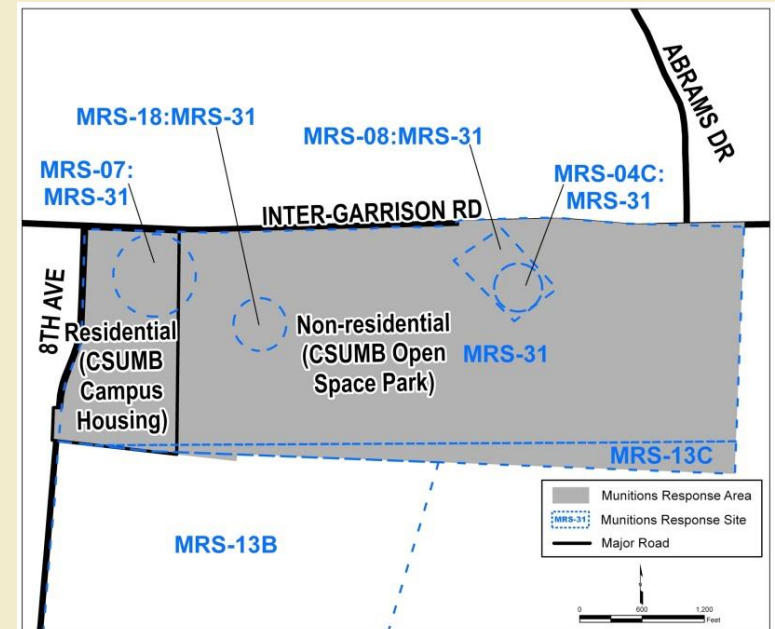
Remedial Investigation

- Background Information
- Conceptual Site Model
- Nature and Extent of Military Munitions
- Evaluation of Previous Work



CSUMB Off-Campus MRA Site Characteristics

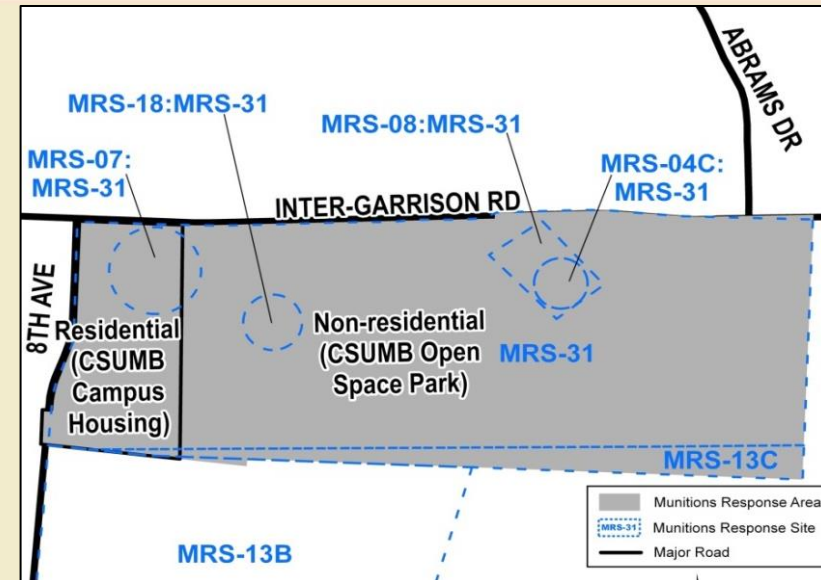
- Previous military use
 - Troop training and maneuver area
- Planned Reuses
 - Non-residential (CSUMB open space park)
 - Residential (CSUMB campus housing)



CSUMB Off-Campus MRA

Munitions Response Sites (MRS)

- Majority of the MRA comprised of MRS-31
 - Troop Maneuvers
 - Confidence course & land navigation training
 - Practice rifle & hand grenade training
- Four sub-areas within MRS-31
 - MRS-04C: Chemical, Biological & Radiological (CBR) training
 - MRS-07 & MRS-08: Mine & booby trap training
 - MRS-18: Minefield practice area
- Remainder of MRA consists of MRS-13C & MRS-13B
 - Practice mortar training



CSUMB Off-Campus MRA

Previous Work

- MEC removal actions completed over entire MRA
 - MRS-31, which encompasses MRS-04C, MRS-07, MRS-08 and MRS-18
 - MRS-13C and MRS-13B
- Munitions removed include
 - Firing devices
 - Hand grenades and hand grenade fuzes
 - Practice mines and mine fuzes
 - Practice and training mortars (60mm and 81mm)
 - Illumination flares and signals
 - Smoke generating items
 - Various projectiles, rockets & simulators



CSUMB Off-Campus MRA

Nature and Extent of Contamination

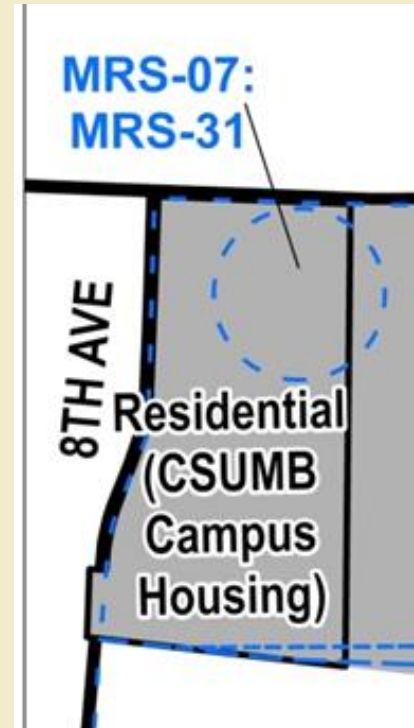
- Majority of MEC and munitions debris (MD) encountered were consistent with historical uses of the area as a troop training and maneuver area
 - Majority of items recovered were associated with practice and pyrotechnic munitions
 - High explosive items, including two rifle grenades, two 2.36" rockets and four fragmentation hand grenades, were found at various locations throughout the MRA
 - Highest density and diversity of MEC and MD items were found in the southeastern portion of the MRA where troop training was identified as occurring



CSUMB Off-Campus MRA

Residential Quality Assurance

- Conducted on 49-acre proposed future residential (CSUMB campus housing) reuse area
- Provided additional verification and quality assurance of prior MEC removal actions
- Confirmed results of previous MEC investigations and removal actions
- Recommended as acceptable for future residential reuse with appropriate use restrictions, such as construction support and disclosures



CSUMB Off-Campus MRA Remedial Investigation Summary

- MEC and MD encountered were consistent with historical use of the area as a troop training and maneuver area
- Results of the RI indicate that removal actions successfully detected, excavated and recovered MEC to address the imminent safety hazards
- Although unlikely, it is possible for MEC to remain in the MRA, therefore a risk assessment and feasibility study were prepared



Risk Assessment

- Assesses risk to future land users from any potentially remaining MEC
 - Utilizes the Fort Ord Risk Assessment Protocol
 - Evaluates each reuse area
 - Considers multiple receptors for each reuse area
- Overall risk score expressed in letters A through E

| Overall MEC Risk Score | A | B | C | D | E |
|------------------------|--------|-----|--------|------|---------|
| | Lowest | Low | Medium | High | Highest |

CSUMB Off-Campus MRA Risk Assessment Results

- Summary of Overall MEC Risk Scores


| Reuse Area | Receptor | Overall MEC Risk Score | | | | |
|---|---------------------|------------------------|----------|-------------|-----------|--------------|
| | | A Lowest | B Low | C Medium | D High | E Highest |
| Residential (CSUMB Campus Housing) | Resident | ✓ | | | | |
| | Recreational User | ✓ | | | | |
| | Maintenance Worker | ✓ | | | | |
| | Construction Worker | ✓ | | | | |
| | Trespasser | ✓ | | | | |
| Non-Residential (CSUMB Open Space Park) | Recreational User | ✓ | | | | |
| | Maintenance Worker | ✓ | | | | |
| | Construction Worker | ✓ | | | | |
| | Trespasser | ✓ | | | | |

Feasibility Study

- Defines Remedial Action Objectives
 - Protection of Human Health and the Environment
 - Compliance with Federal and State Laws and Regulations
- Develops remedial alternatives
- Evaluates and compares alternatives
- Identifies preferred remedial alternative



Remedial Alternatives Evaluated



| | |
|---------------|---------------------------------------|
| Alternative 1 | No Further Action |
| Alternative 2 | Land Use Controls |
| Alternative 3 | Additional Subsurface MEC Remediation |

Notes:

- Long-Term Management Measures comprised of a deed notice, annual monitoring and reporting, and five-year review reporting will also be instituted under each of the three remedial alternatives

CERCLA Nine Evaluation Criteria

Threshold Criteria

1. Overall Protection of Human Health & the Environment
2. Compliance with Applicable or Relevant and Appropriate Requirements (ARARs)

Primary Balancing Criteria

3. Long Term Effectiveness and Permanence
4. Reduction of Toxicity, Mobility, or Volume through Treatment
5. Short Term Effectiveness
6. Implementability
7. Cost

Modifying Criteria

8. State Acceptance
9. Community Acceptance

CSUMB Off-Campus MRA Preferred CERCLA Remedial Alternative

Alternative 2

Land Use Controls

- MEC Recognition and Safety Training
- Construction Support by UXO-qualified personnel
- Restrictions prohibiting residential use in the proposed future non-residential reuse area

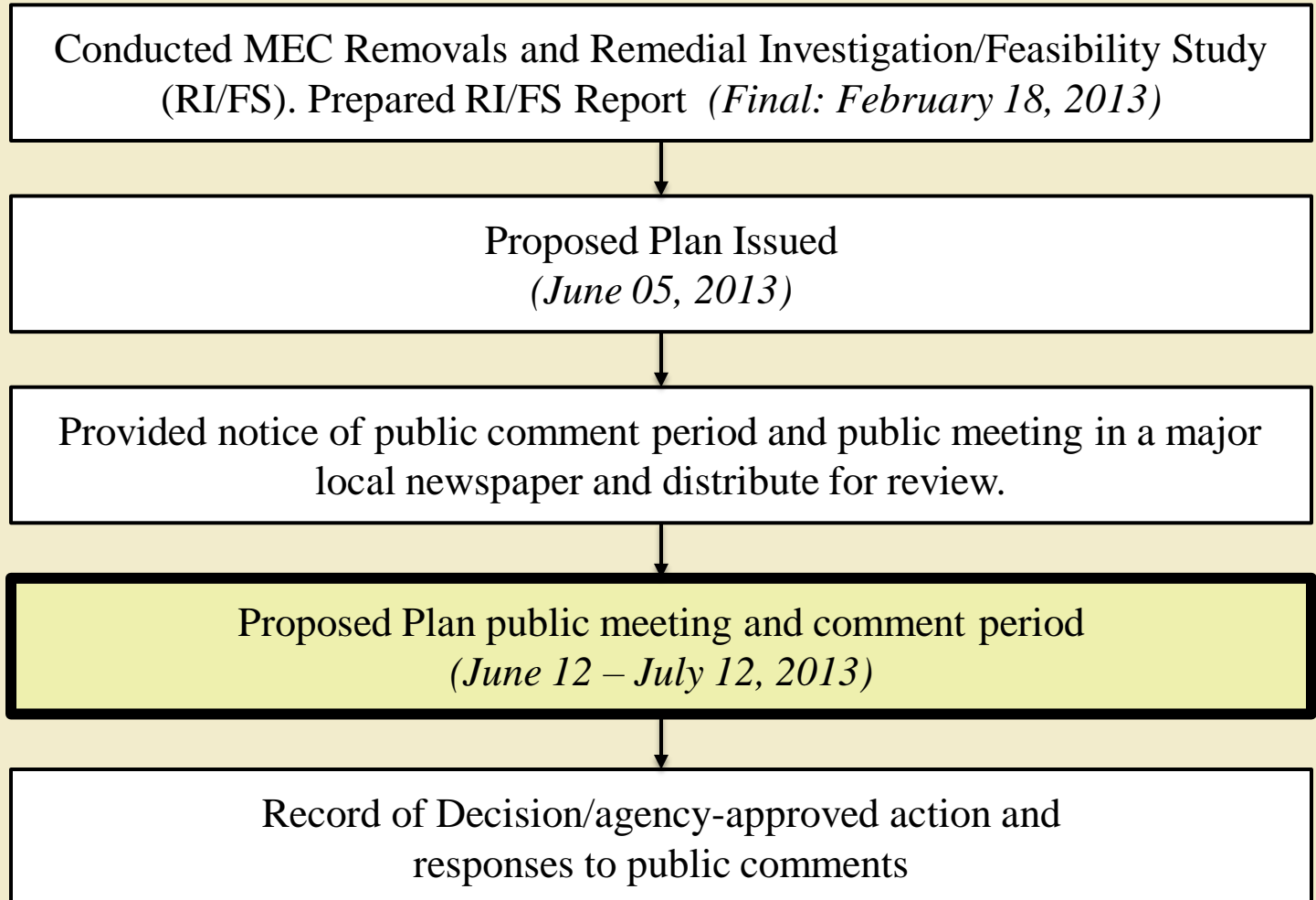


Summary

The Army is proposing Alternative 2, Land Use Controls, for the CSUMB Off-Campus MRA

- Removal Action has been completed
- Supports the planned reuse
- Best meets the CERCLA evaluation criteria
- Long Term Management Measures will also be implemented

CSUMB Off-Campus MRA Record of Decision Process



For Additional Information

Visit the Army's website at:
www.fortordcleanup.com

Fort Ord Administrative Record

Building 4463 Gigling Road, Room 101
Ord Military Community, CA 93944-5008



How To Provide Comments

Verbal Comments Tonight
Submit Written Comments During the Comment Period

Please send your comments to:

Department of the Army
Fort Ord Base Realignment and Closure (BRAC) Office
Attn: William K. Collins
BRAC Environmental Coordinator
P.O. Box 5008, Monterey, CA 93944-5008

(Please reference the Group 2 Proposed Plan in your correspondence)

Comments Must be Postmarked
By July 12, 2013

Questions

Guidelines

- Clarifying questions only
- One question at a time
- Be respectful of others
- Stay within the allotted time period

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Break

7:20 PM Reconvene for Public
Comments



Comments

Guidelines

- Submit a speaker card
- State your name and comment clearly
- Be respectful of others
- Stay within the allotted time period