

## **MR BCT Meeting Agenda**

Tuesday, January 29, 2013 at 1:30 p.m.

Fort Ord BRAC Conference Room

<b>Item</b>	<b>Action</b>	<b>Comment</b>
<b>ESCA</b>	<b>Update</b>	
<b>Site 39 Information</b>	<b>Update</b>	
<b>Community Relations</b>	<b>Update</b>	
<b>Property Transfer</b>	<b>Update</b>	
<b>Prescribed Burn Program</b>	<b>Update</b>	
<b>Fieldwork / Track 3</b>	<b>Update</b>	<ul style="list-style-type: none"><li>- Units 4 / 5A / 9 / 11 / 12</li><li>- Units 2 / 3 / 6 / 7 / 10</li><li>- Non-Burn areas (fuelbreaks/MOUT)</li></ul>
<b>Site Security Program</b>	<b>Update</b>	
<b>Remaining RI/FS Areas Program</b>	<b>Update</b>	
<b>MRS-34 (FAAF)</b>	<b>Update</b>	- Proposed Plan Status
<b>Report Status</b>	<b>Update</b>	<ul style="list-style-type: none"><li>- Units 15 / 21 / 32 / 34 RAR</li><li>- Units 4 / 11 / 12 TM</li></ul>
<b>FFA Schedule</b>	<b>Update</b>	
<b>Action Items</b>	<b>Review</b>	
<b>Next BCT meeting</b>	<b>Schedule</b>	- Feb 22 at 1:30 p.m.

# U.S. Army Community Outreach Update

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## Long Term Actions Underway:

1. Update all fact sheets – on-going
2. Finalize Analysis of 2011 Survey and 2011-2012 Community Outreach Program draft report
3. Update Community Relations Plan once 2011 Survey report is final
4. Continue to contact local schools to offer munitions safety class

## Recent Activities:

1. Responded to several inquiries from Mike Weaver regarding the 3<sup>rd</sup> Five-Year Review Report
2. 3JAN13 provided a cleanup tour for students, faculty, and staff of Monterey Institute of International Studies
3. 9JAN Participated in dry run #1 ESCA Group 3 Proposed Plan Public Meeting
4. 24JAN Met with community member, Jim Nakashima, to discuss Fort Ord groundwater cleanup program

## Upcoming Activities:

1. Publish FOST 12 Notice of Availability
2. Distribute fact sheet for follow-on soil vapor investigation activities related to Site 2/12
3. 30Jan Participate in dry run #2 ESCA Group 3 Proposed Plan Public Meeting
4. 30JAN Participate in ESCA Group 3 Proposed Plan Public Meeting
5. Tentative: FAAF presentation to Marina
6. Proposed Plan Public Meeting for MRS-34/FAAF
7. Community Involvement Workshop: 23FEB12 Focus: Groundwater, Site 39 Soil Cleanup, ESCA
8. Technical Review Committee Meeting: 26FEB12 Topics: Groundwater, Site 39 Soil Cleanup, ESCA

# STATUS: RESPONSE to COMMUNITY COMMENTS (RTC)

AR Number	Title/Subject	Status
	No Outstanding Response to Community Comments	

# Fort Ord Environmental Cleanup

## Community Involvement Mobile Workshop

### February 23, 2013

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## AGENDA

9:00 – 1:15 **POSTER SESSION / OPEN FORUM**

10:00 – 1:15 **MOBILE WORKSHOP**

**Tour 1: 10:00 – 11:30 a.m.**

**Tour 2: 11:45 – 1:15 p.m.**

10:00 – 1:15 **COMMUNITY COMMENTS\***

- **Collected at designated table / booth area during poster session / open forum**
- **Collected after each tour**

\* **Comments and responses will be recorded in a “Closing the Loop” document which will be posted at [www.FortOrdCleanup.com](http://www.FortOrdCleanup.com) and made available at the next Community Involvement Mobile Workshop scheduled for July 13, 2013.**

# Comments/Questions

U.S. Army Fort Ord Cleanup  
Community Involvement Mobile Workshop  
February 23, 2013

We invite you to provide comments and questions that may not have been addressed during the Workshop. Thank you for participating.

## Workshop Topics:

- U.S. Army Site 39 Soil Cleanup
- U.S. Army Landfill
- U.S. Army Groundwater Treatment
- Fort Ord Reuse Authority Environmental Services Cooperative Agreement

Comment Topic: \_\_\_\_\_

Comment/Question: \_\_\_\_\_

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Comment Topic: \_\_\_\_\_

Comment/Question: \_\_\_\_\_

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Comment Topic: \_\_\_\_\_

Comment/Question: \_\_\_\_\_

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**Was this mobile workshop helpful?**  Yes  No

Suggestions for future workshops:

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**Please return at the workshop or, at your convenience, you can also return:**

By mail: U.S. ARMY FORT ORD BRAC OFFICE  
P.O. Box 5008  
Monterey, CA 93944-5008

By Fax: (831) 393-9188

By E-mail: Melissa.M.Broadston.ctr@mail.mil

How did you find out about the Fort Ord cleanup program?

Newspaper

Flyer mailed to home

Television/Radio announcement

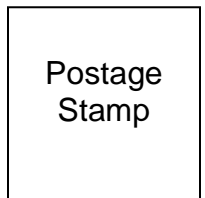
Fort Ord web site

Enrolled in Fort Ord Prescribed Burn Notification Program

Friends/Neighbor

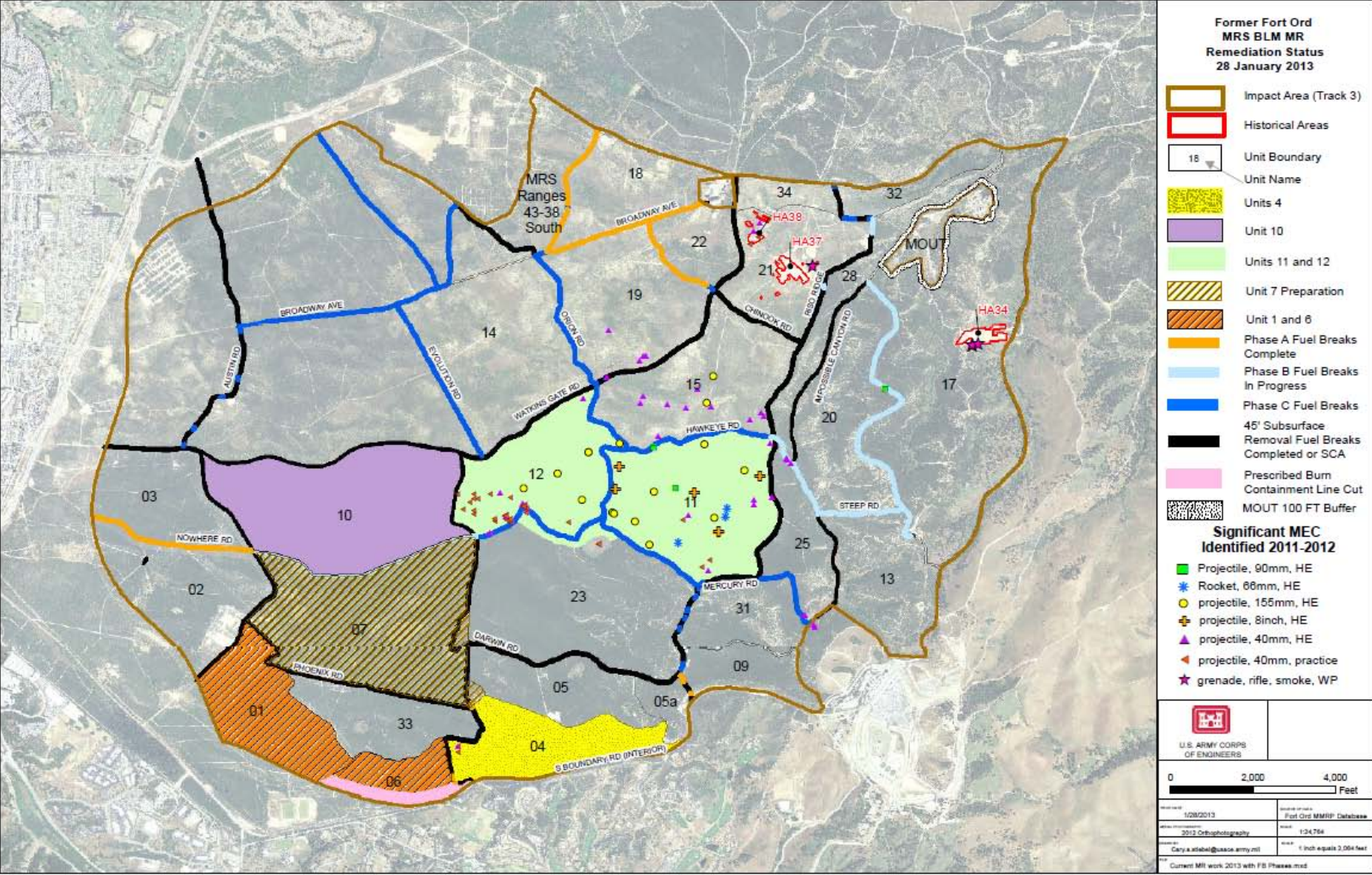
Other: \_\_\_\_\_

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U.S. Army Fort Ord BRAC Office  
P.O. Box 5008  
Monterey, CA 93944-5008

# MMRP Fieldwork Update



# MMRP Fieldwork Update

## PROJECT: MRS-BLM (Track 3) Non-Burn Areas (509 acres)

An MMRP action in accordance with the Track 3 ROD including vegetation clearance, technology-aided surface MEC remediation, subsurface MEC remediation in selected areas, and DGM in areas located within the Impact Area including permanent fuel breaks, non-burn habitat areas, and 100 ft buffer areas. Fuel break remediation is divided into Phases A , B, and C.

Start date: March 2010

Estimated end date : TBD

### PHASES:

Site preparation

**Start**  
as required

**End**  
as required

Vegetation removal

- vegetation cutting

as required

as required

DGM

- fuel breaks

08-23-10

01-05-11

- MOUT

N/A

N/A

MEC Removal

- surface

as required

as required

- subsurface

01-26-12

09-25-13

### ISSUES AND CONCERNS:

- Phase B mag and dig work has been completed. Phase C is in progress.
- FWV for work sequencing and to adjusted DGM. Vegetation cutting is in progress. Subsurface work will include an exclusion zone that impacts Impossible Canyon Road to north gate (MOUT Site entrance). Army will coordinate subsurface work schedule with FORA/POM to provide for MOUT training adjustments.



# MMRP Fieldwork Update

## PROJECT: MRS-BLM (Track 3) Units 4/5A/9/11/12 (727 acres)

An MMRP action in accordance with the Track 3 ROD including vegetation removal, technology-aided surface remediation, subsurface MEC remediation in selected areas, and digital geophysical mapping (DGM). Prescribed burning in Units 11 and 12 was cancelled after discovery of Heavy artillery surface UXO. Vegetation in Units 11/12 was cut as alternative to prescribed burning. Work on Units 5A and 9 is not currently scheduled.

Start date: July 2011

Estimated end date : Jan 2013

### PHASES:

Start

End

#### Site preparation

- Cutting of containment lines (Units 11/12)

05-04-11

06-08-11

- Surface Remediation (containment lines Units 11/12)

05-02-11

12-15-11

#### Vegetation removal

- Cutting: Interior Units 11/12

08-29-11

01-06-12

Unit 4

01-05-12

01-29-12

DGM Units 11/12 complete

01-13-12

09-05-12

**Unit 4 complete**

09-04-12

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#### MEC Removal

- Surface remediation

Units 4/11/12 complete

10-06-11

05-13-12

- Subsurface remediation (as required)

TBD

TBD

### ISSUES AND CONCERNS:

- All vehicle targets now removed for recycle. Surface and DGM complete in target grids.
- BLM survey of potential subsurface work areas pending.

# MMRP Fieldwork Update

## **PROJECT:** MRS-BLM (Track 3) Units 6, 7 and 10 (668 acres)

An MMRP action in accordance with the Track 3 ROD and SSWP including vegetation clearance, technology-aided surface MEC remediation, subsurface MEC remediation in selected areas, and DGM. Work will include adjacent permanent fuel breaks not remediated under separate work plans. Start dates for subsequent actions will be established from the date of the completed prescribed burn. Unit 10 is scheduled for 2012 start and Unit 7 for 2013. Unit 6 is not scheduled.

Start date: June 2012

Estimated end date : TBD

### PHASES:

	Start	End
Site preparation (Primary and Expansion FBs)	06-04-12	09-13-12
Vegetation removal	06-05-12	09-03-12
TA Surface MEC removal (containment lines)	06-16-12	09-04-12
Prescribed Burn	TBD	
Vegetation cutting (post burn)	TBD	TBD
Removal Action		
MEC removal		
-TA Surface	TBD	TBD
-Subsurface	TBD	TBD
-DGM	TBD	TBD

### ISSUES AND CONCERNS:

- MEC preparation work is complete for Unit 10.

# MMRP Fieldwork Update

Unexploded Ordnance (UXO) / Discarded Military Munitions (DMM) /  
Material Potential Presenting Explosive Hazard (MPPEH), Munitions Debris (MD), and Range Related Debris (RRD)  
Summary

<u>Detonation</u>	<u>Location</u>	<u>Items</u>	<u>Result</u>
Dec 6	Hawkeye Rd. at Evolution Rd.	76 - 81mm mtr proj 1 - 105mm HEAT, M67 1 - 155mm HE Mk1	63 inert
Dec 13	Nowhere Rd. at Evolution Rd.	1 - 4.2" HE, M3 61 - 81mm mtr proj 1 - 66mm Rkt, HEAT, M72 1 - 75mm HE, Mk1	34 inert

## MPPEH/UXO/DMM

## MD

## RRD

### MEC Remediation

### Items

### lbs

### lbs

Units 15/21/32/34	0/74/7	32,482	30,975
HA 37	0/52/3	23,765	710
HA 38	0/2/0	286	51
HA 34	0/3/0	1,734	101
Units 11/12	0/737/1	178,178	23,442
FBs (all phases)	<b>0/167/1</b>	<b>13,179</b>	2,317
Units 4, 23	0/75/1	6,392	4,859
Units 6/7/10	7/38/0	8,214	258
Units 2/3	0/8/0	2,096	348

# MMRP Site Security Program

- Trespass Incidents:

- Last 30 days: **1**

- Year to Date: **3**

- Dec 27 - two adult males scaled a tree vicinity Watkins Gate Rd gate at the blueline to pass over the perimeter fence. They were intercepted by contract ordnance workers on Watkins Gate Road and escorted out of the area.

- MEC Incidents:

- Last 30 Days: **1**

- Year to Date: **20**

- Dec 9 – a UXO white phosphorus rifle grenade was located by contractor personnel during erosion control work in HA 34. The item was transported to storage pending detonation. Item detonated on Dec 13.

- Community Education:

- Total recipients in 2012: 375

- MEC Rec and Safety Tng:

- Total personnel trained in 2012: 77

- Other: MRS Security Program Committee annual meeting scheduled for Feb 13 at 10:30 a.m. in the BRAC conference room.

Fort Ord Deliverables Report  
MR BCT, January 29, 2013

Issue Year	Site	Document Title	DocGroup	DocType	Version	Issue Date	Author Org
2013	OE	Track 2 Fritzsche Army Airfield (FAAF) Proposed Plan	Primary	Internal	DRAFT FINAL	2013-02-28	TBD
2013	OE	Track 3 Technical Memorandum for Units 4, 11, and 12, Former Fort Ord, California	Primary	External	DRAFT	2013-03-30	ITSI Gilbane
2013	OE	MRS-BLM Units 15, 21, 32 and 34 (2010 Units) Remedial Action Report	Primary	External	DRAFT FINAL	2013-01-31	ITSI
2013	OE	Track 2 Fritzsche Army Airfield (FAAF) Proposed Plan	Primary	External	FINAL	2013-04-30	TBD
2013	OE	Track 2 Fritzsche Army Airfield (FAAF) Record of Decision (ROD)	Primary	Internal	DRAFT	2013-06-30	TBD
2013	OE	Track 2 Fritzsche Army Airfield (FAAF) Record of Decision (ROD)	Primary	Internal	DRAFT FINAL	2013-09-30	TBD
2013	OE	Track 2 Fritzsche Army Airfield (FAAF) Record of Decision (ROD)	Primary	External	FINAL	2013-12-30	TBD
2013	OE	Munitions Response Remaining Areas, Track 2 Remedial Investigation/Feasibility Study Report, Former Fort Ord, California	Primary	External	DRAFT	TBD	ITSI
2013	OE	Munitions Response Remaining Areas, Track 2 Remedial Investigation/Feasibility Study Report, Former Fort Ord, California	Primary	External	DRAFT FINAL	TBD	ITSI
2013	OE	Munitions Response Remaining Areas, Track 2 Remedial Investigation/Feasibility Study Report, Former Fort Ord, California	Primary	External	FINAL	TBD	ITSI

This report shows documents that are expected in 2013.

External documents are those that are entered into the Administrative Record and available to the public.

← January 2013 →						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		<a href="#">1</a>	<a href="#">2</a>	<a href="#">3</a>	<a href="#">4</a>	<a href="#">5</a>
<a href="#">6</a>	<a href="#">7</a>	<a href="#">8</a> MR IPM (10:00 AM)  HTW IPM (1:30 PM)	<a href="#">9</a> ESCA Mtg Dry Run (10:00 AM)  ESCA Regulatory Mtg, Fort Ord (1:00 PM)	<a href="#">10</a>	<a href="#">11</a>	<a href="#">12</a>
<a href="#">13</a>	<a href="#">14</a>	<a href="#">15</a>	<a href="#">16</a>	<a href="#">17</a>	<a href="#">18</a>	<a href="#">19</a>
<a href="#">20</a>	<a href="#">21</a> Martin Luther King Day (Federal Holiday)	<a href="#">22</a>	<a href="#">23</a> HTW BCT (1:30PM)	<a href="#">24</a>	<a href="#">25</a>	<a href="#">26</a>
<a href="#">27</a>	<a href="#">28</a>	<a href="#">29</a> MR BCT (1:30 PM)	<a href="#">30</a> ESCA Mtg Dry Run (9:30 AM)  ESCA Group 3, Proposed Plan, Public Mtg (6pm)	<a href="#">31</a>		

← February 2013 →						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					<a href="#">1</a>	<a href="#">2</a>
<a href="#">3</a>	<a href="#">4</a> Dry Run for Habitat Restoration Mtg (8:00 a.m.)	<a href="#">5</a> MR IPM (10:00)  HTW IPM (1:30)	<a href="#">6</a> GW Optimization (9:00)	<a href="#">7</a> Habitat Restoration and Monitoring Mtg (10:00 a.m.)	<a href="#">8</a>	<a href="#">9</a>
<a href="#">10</a>	<a href="#">11</a>	<a href="#">12</a>	<a href="#">13</a>	<a href="#">14</a>	<a href="#">15</a>	<a href="#">16</a>
<a href="#">17</a>	<a href="#">18</a>	<a href="#">19</a>	<a href="#">20</a>	<a href="#">21</a> ESCA Regulatory Mtg, Fort Ord (1:00 PM)	<a href="#">22</a> HTW BCT (10:00)  MR BCT (1:30)	<a href="#">23</a> CIW / Open House / Bus Tour (10:00 - 1:30)
<a href="#">24</a>	<a href="#">25</a>	<a href="#">26</a> TRC (10:00)	<a href="#">27</a>	<a href="#">28</a>		

← March 2013 →						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					<a href="#">1</a>	<a href="#">2</a>
<a href="#">3</a>	<a href="#">4</a>	<a href="#">5</a> MR IPM (10:00 AM)  HTW IPM (1:30 PM)	<a href="#">6</a>	<a href="#">7</a>	<a href="#">8</a>	<a href="#">9</a>
<a href="#">10</a>	<a href="#">11</a>	<a href="#">12</a>	<a href="#">13</a> ESCA Regulatory Mtg, Fort Ord (1:00 PM)	<a href="#">14</a> BCT (10:00 AM)	<a href="#">15</a>	<a href="#">16</a>
<a href="#">17</a>	<a href="#">18</a>	<a href="#">19</a>	<a href="#">20</a>	<a href="#">21</a>	<a href="#">22</a>	<a href="#">23</a>
<a href="#">24</a>	<a href="#">25</a>	<a href="#">26</a>	<a href="#">27</a>	<a href="#">28</a>	<a href="#">29</a>	<a href="#">30</a>
<a href="#">31</a>						

← April 2013 →						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	<a href="#">1</a>	<a href="#">2</a>	<a href="#">3</a> HTW IPM (1:30 p.m.)	<a href="#">4</a>	<a href="#">5</a>	<a href="#">6</a>
<a href="#">7</a>	<a href="#">8</a>	<a href="#">9</a> ESCA Regulatory Mtg, Fort Ord (1:00 PM)	<a href="#">10</a> HTW BCT (10:00 AM)	<a href="#">11</a>	<a href="#">12</a>	<a href="#">13</a>
<a href="#">14</a>	<a href="#">15</a>	<a href="#">16</a>	<a href="#">17</a>	<a href="#">18</a>	<a href="#">19</a>	<a href="#">20</a>
<a href="#">21</a>	<a href="#">22</a>	<a href="#">23</a>	<a href="#">24</a>	<a href="#">25</a>	<a href="#">26</a>	<a href="#">27</a>
<a href="#">28</a>	<a href="#">29</a>	<a href="#">30</a>				

**SITE 39  
SOIL REMEDIATION  
MEC/MD  
HA 37**

BURN UNIT	HA	ITEM_DATE	ITEM_DESCRIPTION	Description	STEP	LOCATION	DIG_RESULT TYPE	OP CLASS
21	37	3/7/2011	Rocket, 35mm, subcal, prac, M73	PreRemediation			MEC-DMM	MEC Removal
21	37	6/8/2011	Assorted MD Components 2.36" M6 -- Centroid	Soil Remediation	3A	Stockpile Inspection	MD	HTW
21	37	6/14/2011	Assorted MD Components 2.36" M6, 3.5" M28 -- Centroid	Soil Remediation	3A	Stockpile Inspection	MD	HTW
21	37	6/16/2011	Assorted MD Components 2.36" M6 -- Centroid	Soil Remediation	1	Excavation	MD	HTW
21	37	6/22/2011	Assorted MD Components 2.36" M6, Slap Flare M127A1 -- Centroid	Soil Remediation	3A	Stockpile Inspection	MD	HTW
21	37	6/27/2011	Assorted MD Components 2.36" M6, Slap Flare M127A1 -- Centroid	Soil Remediation	1	Excavation	MD	HTW
21	37	6/28/2011	Assorted MD Components 2.36" M6 -- Centroid	Soil Remediation	3A	Stockpile Inspection	MD	HTW
21	37	6/28/2011	Assorted MD Components 3.5" M28 -- Centroid	Soil Remediation	3A	Stockpile Inspection	MD	HTW
21	37	7/5/2011	Assorted MD Components 2.36" M6, Rifle Grenade M22/M19 -- Centroid	Soil Remediation	1	Excavation	MD	HTW
21	37	7/5/2011	Assorted MD Components Rifle Grenade M19 -- Centroid	Soil Remediation	3A	Stockpile Inspection	MD	HTW
21	37	7/8/2011	Assorted MD Components 2.36" M7 -- Centroid	Soil Remediation	1	Excavation	MD	HTW
21	37	7/11/2011	Assorted MD Components 2.36" M6, 3.5" M28, Rifle Grenade M19/M22 -- Centroid	Soil Remediation	3A	Stockpile Inspection	MD	HTW
21	37	7/12/2011	Assorted MD Components 2.36" M6, 3.5" M28, Rifle Grenade M19/M22 -- Centroid	Soil Remediation	1	Excavation	MD	HTW
21	37	7/13/2011	Assorted MD Components 2.36", Rifle Grenade M19/M22 -- Centroid	Soil Remediation	3	off-road dump at SP	MD	HTW
21	37	7/13/2011	57MM M306 -- Centroid	Soil Remediation	3	off-road dump at SP	MD	HTW
21	37	7/19/2011	Rocket, 2.36inch, HEAT, M6A3	PreRemediation			MEC-UXO	MEC Removal
21	37	7/19/2011	Rocket, 2.36inch, HEAT, M6A3	PreRemediation			MEC-UXO	MEC Removal
21	37	7/19/2011	Rocket, 2.36inch, HEAT, M6A3	PreRemediation			MEC-UXO	MEC Removal
21	37	7/19/2011	Rocket, 2.36inch, HEAT, M6A3	PreRemediation			MEC-UXO	MEC Removal
21	37	7/19/2011	Rocket, 2.36inch, HEAT, M6A3	PreRemediation			MEC-UXO	MEC Removal
21	37	7/19/2011	Rocket, 2.36inch, HEAT, M6A3	PreRemediation			MEC-UXO	MEC Removal
21	37	7/19/2011	Rocket, 2.36inch, HEAT, M6A3	PreRemediation			MEC-UXO	MEC Removal



**SITE 39  
SOIL REMEDIATION  
MEC/MD  
HA 37**

BURN UNIT	HA	ITEM_DATE	ITEM_DESCRIPTION	Description	STEP	LOCATION	DIG_RESULT TYPE	OP CLASS
21	37	7/19/2011	Rocket, 2.36inch, HEAT, M6A3	PreRemediation			MEC-UXO	MEC Removal
21	37	7/20/2011	Rocket, 2.36inch, HEAT, M6A3	PreRemediation			MEC-UXO	MEC Removal
21	37	7/20/2011	Rocket, 2.36inch, HEAT, M6A3	PreRemediation			MEC-UXO	MEC Removal
21	37	7/20/2011	Rocket, 2.36inch, HEAT, M6A3	PreRemediation			MEC-UXO	MEC Removal
21	37	7/20/2011	Rocket, 2.36inch, HEAT, M6A3	PreRemediation			MEC-UXO	MEC Removal
21	37	7/20/2011	Rocket, 2.36inch, HEAT, M6A3	PreRemediation			MEC-UXO	MEC Removal
21	37	7/28/2011	Grenade, rifle, M20 (Smoke)	PreRemediation			MEC-UXO	MEC Removal
21	37	8/31/2011	Assorted MD Components 2.36" M6, Rifle Grenade M22/M19 -- Centroid	Soil Remediation	1	Excavation	MD	HTW
21	37	8/31/2011	Assorted MD Components 2.36" M6, Rifle Grenade M22/M19 -- Centroid	Soil Remediation	1	Excavation	MD	HTW
21	37	9/9/2011	Assorted MD Components 2.36" M6, 3.5" M28, Rifle Grenade M19/M22 -- Centroid	Soil Remediation	1	Excavation	MD	HTW
21	37	9/9/2011	Assorted MD Components 2.36" M6, 3.5" M28, Rifle Grenade M19/M22 -- Centroid	Soil Remediation	3	off-road dump at SP	MD	HTW
21	37	9/12/2011	Cartridge, grenade, carbine, 30cal, M6	Soil Remediation	3A	Stockpile Inspection	MEC-DMM	HTW
21	37	10/12/2011	Assorted MD Components 2.36" M6, Rifle Grenade M22/M19 -- Centroid	Soil Remediation	1	Excavation	MD	HTW
21	37	10/24/2011	Assorted MD Components 2.36" M6, Rifle Grenade M22/M19 -- Centroid	Soil Remediation	3	off-road dump at SP	MD	HTW
21	37	10/26/2011	Rocket, 2.36inch, HEAT, M6A3	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	10/26/2011	Rocket, 3.5inch, HEAT, M28 series	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	11/1/2011	Assorted MD Components 2.36" M6, Rifle Grenade M22/M19 -- Centroid	Soil Remediation	3	off-road dump at SP	MD	combined HTW and MEC Removal
21	37	11/22/2011	Projo, 75mm, HE, MK I	PostRemediation			MEC-UXO	MEC Removal
21	37	12/1/2011	Projo, 60mm, mortar, HE, M49 series	PostRemediation			MEC-UXO	MEC Removal
21	37	12/1/2011	Projo, 60mm, mortar, illum, M83 series	PostRemediation			MEC-UXO	MEC Removal
21	37	12/14/2011	Rocket, 2.36inch, HEAT, M6	PostRemediation			MEC-UXO	MEC Removal
21	37	12/20/2011	Rocket, 2.36inch, HEAT, M6	PostRemediation			MEC-UXO	MEC Removal
21	37	12/21/2011	Signal, illum, AN-M43 series	PostRemediation			MEC-UXO	MEC Removal
21	37	5/16/2012	Rocket, 3.5 in., HEAT, M28A2	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal

**SITE 39  
SOIL REMEDIATION  
MEC/MD  
HA 37**

BURN UNIT	HA	ITEM_DATE	ITEM_DESCRIPTION	Description	STEP	LOCATION	DIG_RESULT TYPE	OP CLASS
21	37	5/16/2012	Rocket, 2.36inch, HEAT, M6A3	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	5/16/2012	Rocket, 3.5inch, HEAT, M28 series	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	5/17/2012	Rocket, 2.36inch, HEAT, M6A3	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	5/21/2012	Rocket, 2.36inch, HEAT, M6A3	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	5/22/2012	Rocket, 2.36inch, HEAT, M6A3	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	5/22/2012	Grenade, rifle, AT, M9 series	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	5/22/2012	Grenade, rifle, smoke, WP, M19A1	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	5/24/2012	Grenade, rifle, AT, M9 series	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	6/5/2012	Projo, 81mm, mortar, HE, M43 series	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	6/6/2012	Projo, 81mm, mortar, HE, M43 series	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	6/6/2012	Grenade, rifle, AT, M9 series	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	6/7/2012	Rocket, 2.36inch, HEAT, M6	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	6/13/2012	Rocket, 2.36inch, HEAT, M6	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	6/18/2012	Rocket, 2.36inch, HEAT, M6A3	PreRemediation Phase 2			MEC-UXO	MEC Removal
21	37	9/13/2012	Grenade, rifle, smoke, WP, M19A1	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	9/13/2012	Grenade, rifle, HEAT	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	9/13/2012	Rocket, 2.36inch, HEAT, M6	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	9/13/2012	Grenade, rifle, smoke, WP, M19A1	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal

**SITE 39  
SOIL REMEDIATION  
MEC/MD  
HA 37**

<b>BURN UNIT</b>	<b>HA</b>	<b>ITEM_DATE</b>	<b>ITEM_DESCRIPTION</b>	<b>Description</b>	<b>STEP</b>	<b>LOCATION</b>	<b>DIG_RESULT TYPE</b>	<b>OP CLASS</b>
21	37	9/13/2012	Rocket, 2.36inch, HEAT, M6	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	9/13/2012	Rocket, 2.36inch, HEAT, M6	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	9/20/2012	Rocket, 2.36inch, HEAT, M6	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	9/20/2012	Grenade, rifle, smoke, WP, M19A1	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	9/20/2012	Grenade, rifle, AT, M9 series	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	9/27/2012	Rocket, 2.36inch, HEAT, M6	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	9/27/2012	Grenade, rifle, smoke, WP, M19A1	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	9/27/2012	Fuze, grenade, hand, prac, M205 series	Soil Remediation	1	Excavation	MEC-UXO	combined HTW and MEC Removal
21	37	10/2/2012	Grenade, rifle, smoke, WP, M19A1	Soil Remediation	5	OU2 Landfills	MEC-UXO	combined HTW and MEC Removal

Note:

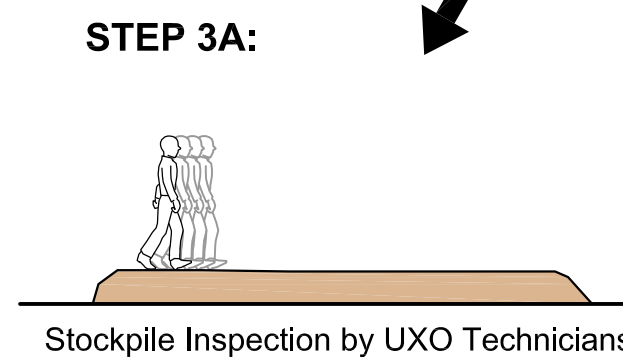
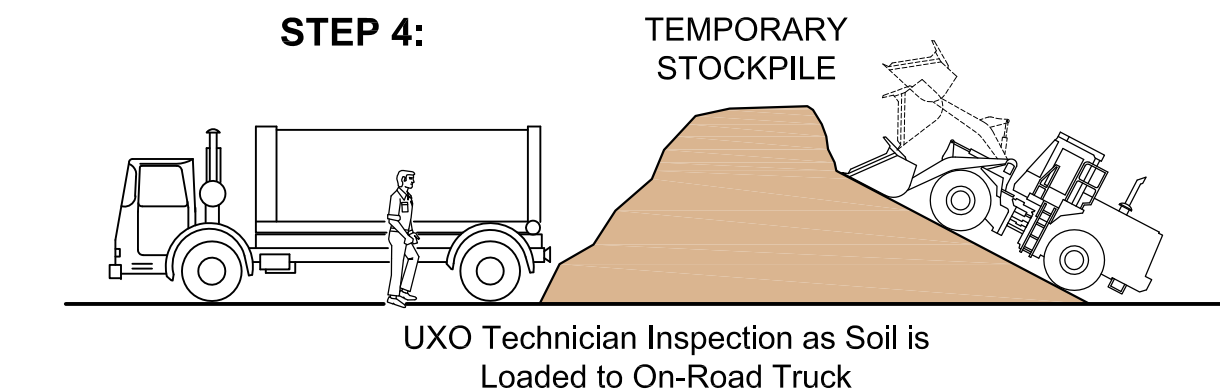
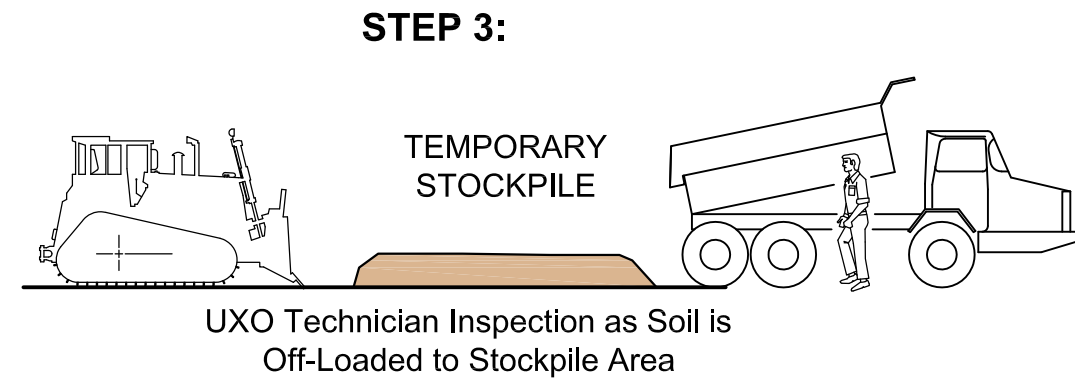
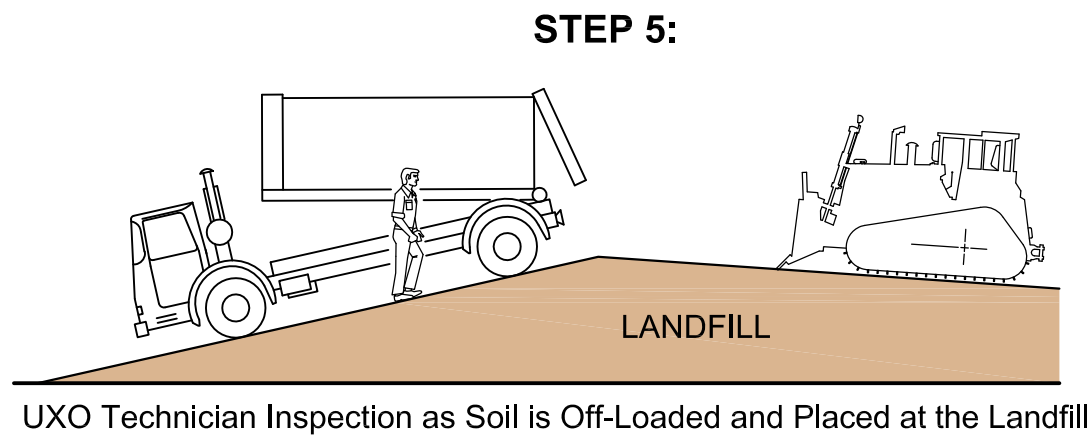
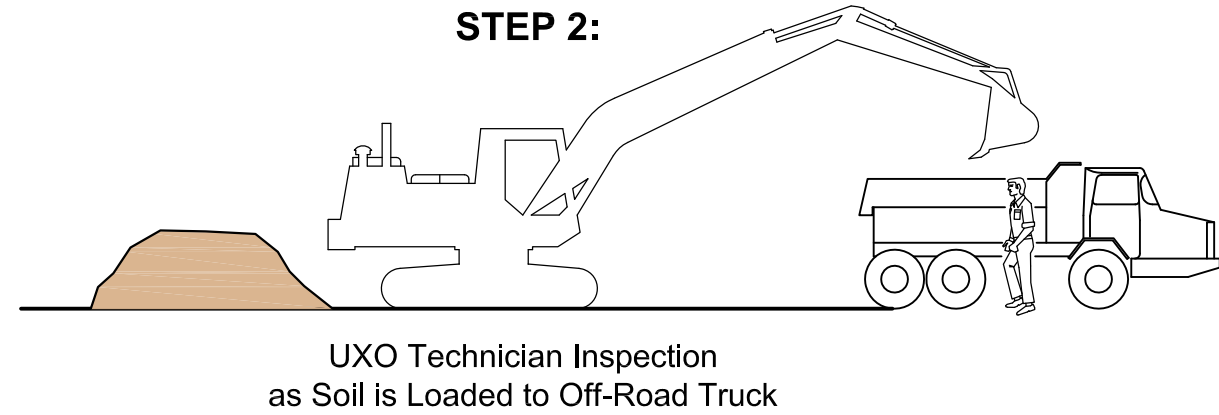
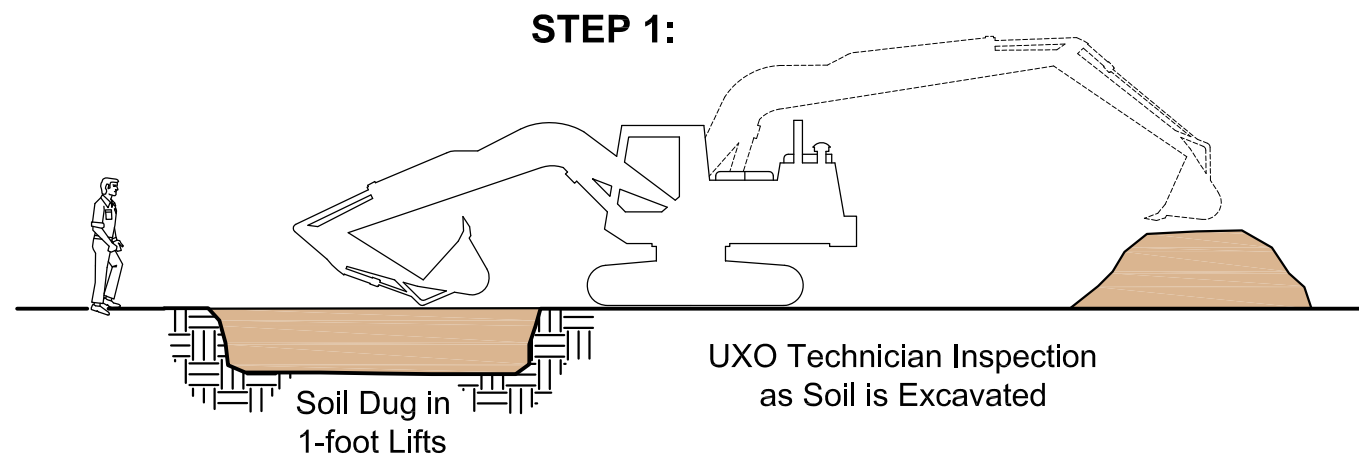
- 1.) MD encountered during pre- and post-remediation MEC removal are not included in this table. MD were tracked by weight only and not by type as required during soil remediation

**SITE 39  
SOIL REMEDIATION  
MEC/MD  
HA 38**

<b>BURN UNIT</b>	<b>HA</b>	<b>ITEM_DATE</b>	<b>ITEM_DESCRIPTION</b>	<b>Description</b>	<b>STEP</b>	<b>LOCATION</b>	<b>DIG_RESULT TYPE</b>	<b>OP CLASS</b>
21	38	1/31/2012	Projo, 40mm, prac, M918	PreRemediation			MEC-UXO	MEC Removal

Note:

- 1.) MD encountered during pre- and post-remediation MEC removal are not included in this table. MD were tracked by weight only and not by type as required during soil remediation



NOTE: EXCAVATOR, DOZER AND LOADER OPERATORS OBSERVE SOIL FOR MEC OR MEC-LIKE OBJECTS.

REVISION	DATE	DESCRIPTION	CHKD	APPR
		DEPARTMENT OF THE ARMY SACRAMENTO DISTRICT, CORPS OF ENGINEERS SACRAMENTO, CALIFORNIA		
DESIGNED:	FIGURE 6-1 WORK FLOW SCHEMATIC SHOWING QC VISUAL INSPECTIONS BY UXO TECHNICIANS HA 34 FORMER FORT ORD, CALIFORNIA			
DRAWN:				
CHECKED:				
SUBMITTED:	DATE APPROVED:	SCALE:	SPEC. No.	
			FILE No. HA34_work_flow	

**SITE 39  
SOIL REMEDIATION  
QC SEEDS**

SEED TYPE	SEED ID	DEPTH (FT)	DATE SEEDED	DATE FOUND	HA	STEP FOUND	FOUND BY
4" X 6"	S18-01	0.50	2/17/2010	3/3/2010	18	1	UXO SPOTTER/OPERATOR
1.5" X 9"	S19-01	0.75	3/5/2010	4/27/2010	19	4	UXO SPOTTER
2" x 3" x 4"	S19-02	1.50	3/5/2010	3/31/2010	19	4	UXO SPOTTER
4" x 5"	S19-03	1.00	3/5/2010	4/7/2010	19	4	UXO SPOTTER
1.5" x 12"	S19-04	0.75	3/5/2010	4/14/2010	19	1	UXO SPOTTER/OPERATOR
2" x 3" x 4"	S19-05	1.00	3/5/2010	4/15/2010	19	4	LOADER OPERATOR
2" x 3" x 4"	S26-01	0.75	6/25/2010	7/13/2010	26	1	UXO SPOTTER/OPERATOR
4" x 5"	S26-02	0.50	6/25/2010	7/14/2010	26	1	UXO SPOTTER/OPERATOR
1.5" X 9"	S26-03	0.33	6/25/2010	8/2/2010	26	1	UXO SPOTTER
2" x 3" x 4"	S26-04	0.50	7/30/2010	8/12/2010	26	1	UXO SPOTTER/OPERATOR
4" x 5"	S26-05	0.75	7/30/2010	8/11/2010	26	1	UXO SPOTTER
4" x 5"	S26-05	1.00	8/11/2010	8/17/2010	26	1	UXO SPOTTER
2" x 3" x 4"	S28-01	0.50	10/26/2010	11/9/2010	28	1	UXO SPOTTER/OPERATOR
2" x 3" x 4"	S28-02	0.75	10/26/2010	11/15/2010	28	1	UXO SPOTTER/OPERATOR
4" x 5"	S28-03	0.50	2/7/2011	2/8/2011	28	1	UXO SPOTTER
2" x 3" x 4"	S28-04	0.50	2/7/2011	3/2/2011	28	1	UXO SPOTTER
2" x 3" x 7"	S34-01	0.50	7/21/2011	8/17/2011	34	1	OPERATOR
4" x 5"	S34-02	0.50	7/21/2011	10/26/2011	34	1	OPERATOR
4" x 5"	S34-03	1.50	7/21/2011	8/2/2011	34	0.5	UXO SPOTTER DURING PRE-SWEEP
2" x 3" x 4"	S34-04	1.00	7/21/2011	8/22/2011	34	1	OPERATOR
2" x 3" x 4"	S34-05	2.50	7/21/2011	7/25/2011	34	1	UXO SPOTTER/WATER TRUCK DRIVER
4" x 5"	S34-06	0.50	8/28/2011	8/29/2011	34	0.5	UXO SPOTTER DURING PRE-SWEEP
1.5" X 12"	S36-01	0.50	1/15/2010	2/1/2010	36	1	UXO SPOTTER
2" x 3" x 4"	S37-01	0.50	5/25/2011	6/23/2011	37	1	OPERATOR
4" x 5"	S37-02	0.50	5/25/2011	6/28/2011	37	1	UXO SPOTTER
2" x 3" x 4"	S37-03	0.33	5/25/2011	6/2/2011	37	1	OPERATOR
1.5" x 12"	S37-04	1.50	5/25/2011	6/16/2011	37	2	UXO SPOTTER
2" x 3" x 4"	S37-05	0.50	8/16/2011	9/7/2011	37	4	UXO SPOTTER
2" x 3" x 7"	S37-06	0.50	5/17/2012	9/26/2012	37	1	UXO TECHNICIAN DURING STOCKPILE SWEEP

**SITE 39  
SOIL REMEDIATION  
QC SEEDS**

<b>SEED TYPE</b>	<b>SEED ID</b>	<b>DEPTH (FT)</b>	<b>DATE SEEDED</b>	<b>DATE FOUND</b>	<b>HA</b>	<b>STEP FOUND</b>	<b>FOUND BY</b>
4" x 6"	S37-07	0.80	5/17/2012	6/7/2012	37	1	UXO TECHNICIAN DURING STOCKPILE SWEEP
4" x 5"	S37-08	0.50	5/17/2012	6/18/2012	37	0.5	UXO SPOTTER DURING PRE-SWEEP
2" X 3" X 4"	S38-01	0.50	12/27/2012	1/3/2013	38	2	UXO TECHNICIAN FOUND WHILE SWEEPING STOCKPILE
60MM Illum. Morter	S44-01	1.00	8/2/2010	8/2/2010	44	1	UXO SPOTTER/OPERATOR
4" x 5"	S39-01	1.00	9/24/2010	11/16/2010	39/40	1	UXO SPOTTER
1.5" x 12"	S39-02	0.75	9/24/2010	11/2/2010	39/40	4	BACKHOE OPERATOR

# Basewide Range Assessment Units 4, 11, and 12

Presentation to MR BCT

29 January 2013



# Site 39 Background

- Basewide RI/FS (1995) included Site 39
- Focused on sampling Inland Ranges and 2.36 inch Rocket Range (MRS-16)
  - Range 36A (EOD Range)
  - Range 40A (Flame Field Experiment Range)
  - Range 33 (Demolition Range)
  - Target areas, including 2.36 inch rocket range
  - 17 small arms ranges
  - Groundwater
  - MEC occurrence

# Site 39 Background (continued)

- Site 39 RI identified
  - Lead found at small arms ranges, typically correlated to areas with >10% ammunitions
  - Explosives were found at target areas where a large number of MEC/MD items were found
  - TPH also found in some training areas
- Based on this data, the *Record of Decision, Basewide Remedial Investigation Sites, Fort Ord, California* was signed in 1997
- A ROD amendment was signed in 2009 to address remediation in Habitat Area

# Basewide Range Assessment Background

- *Basewide Range Assessment Work Plan* (Harding ESE, 2001), and *Draft Final Sampling and Analysis Plan, Characterization of Small Arms and Multi-Use Ranges* (Shaw/Harding ESE, 2003)
  - The BRA served as the PA/SI for the sampling of MC at the >200 ranges at Fort Ord
  - Process contains five steps:
    1. A review of historical documents,
    2. site reconnaissance and mapping,
    3. limited soil sampling for screening purposes,
    4. site characterization, and
    5. remediation/habitat mapping.
- Diagrammatic annotations:
- Steps 1, 2, and 3 are grouped by a right-facing curly bracket labeled "Preliminary Phase".
  - Steps 4 and 5 are grouped by a right-facing curly bracket labeled "Remedial Phase".

# Basewide Range Assessment Results To Date

Basewide Range Assessment	Number of Sites
Literature Review	221
Reconnaissance	158
SI Sampling	56
Site Characterization	76
Site Remediation	Impact Area = 23 Other Sites = 36

- Ranges with lead remediation complete: HA-18H, HA-19H, HA-22H, HA-23H/23M, HA-26H, HA-27, HA-27A, HA-28, HA-29, HA-33, HA-34, HA-36, HA-38, HA-39/40/40A, HA-43, HA-44, HA-48H
- Ranges with explosives remediation complete: HA-33 and HA-44
- Range in progress: HA-37

# Basewide Range Assessment in Impact Area

- The 2009 ROD Amendment indicated that the Army will continue to characterize the Impact Area MRA for MC
- Sampling conducted in Units 14/19 and Units 15/21 for both metals and explosives – identified HA-38 for further characterization and remediation
- The BRA identified ranges pending MEC removal for MC investigation: HA-30 (Unit 5) HA-31A (Unit 31), HA-32 (Units 17/20), HA-70 (Unit 25), HA-71 (Unit 20)

# Basewide Range Assessment in Impact Area – Current Units

Unit	MEC/MD Items Identified in Unit
4	Very limited number of rockets and 75mm projectiles
11	Grenades, projectiles, rockets, pyrotechnics
12	Mostly projectiles

Similar to Units 14, 15, 19 and 21 in which MEC removal actions and soil characterization sampling were completed. No analytical results exceeded explosive residue thresholds.

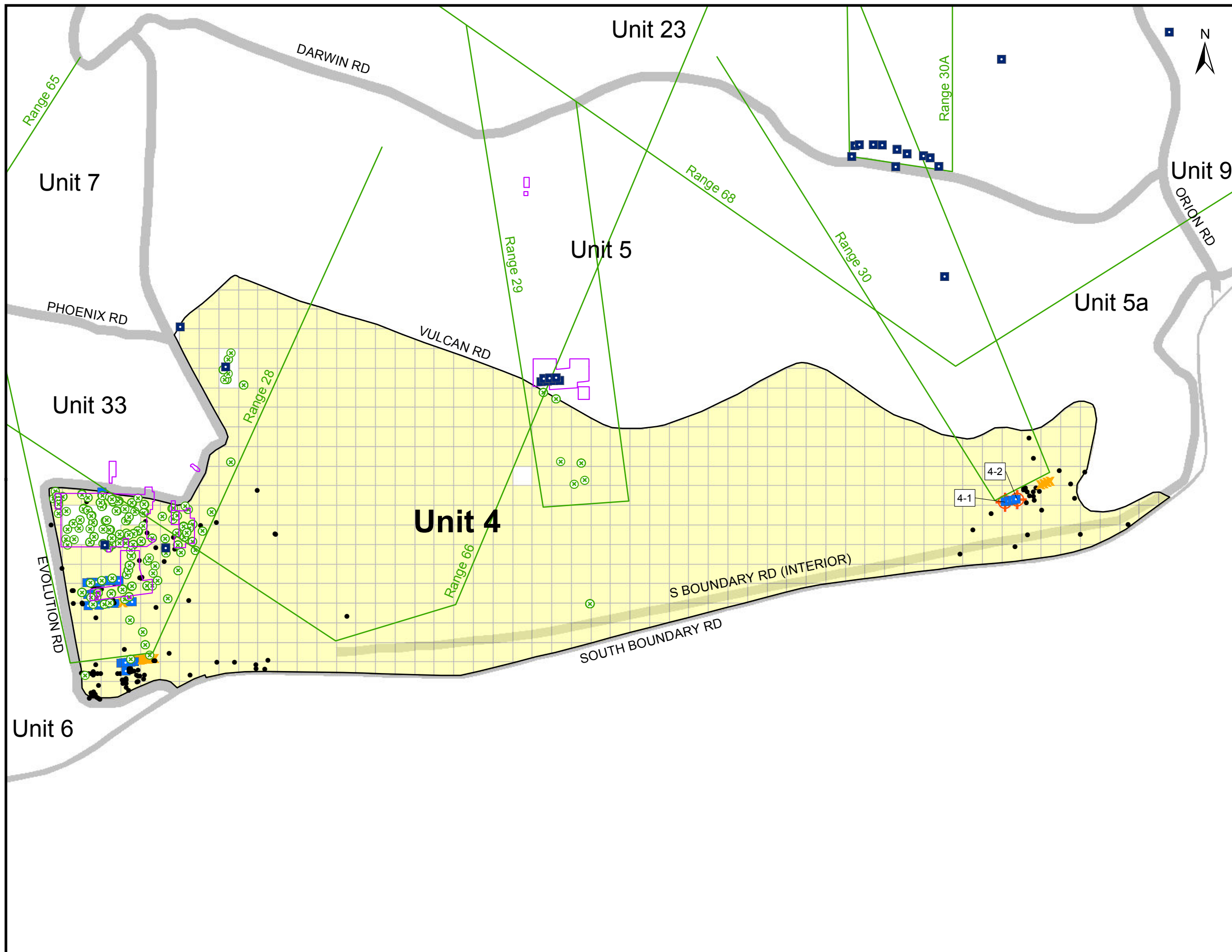
## Basewide Range Assessment in Impact Area – Current Units (continued)

- As previously discussed, currently in step 3 of the BRA process – “limited soil sampling for screening purposes”
- Proposing to look at “worst case scenarios”
- Proposing that during sampling, if areas are identified that may indicate contamination, further sampling would be considered
- If initial sampling is above the screening levels, we will consider additional sampling for characterization

## Basewide Range Assessment in Impact Area – Current Units (continued)

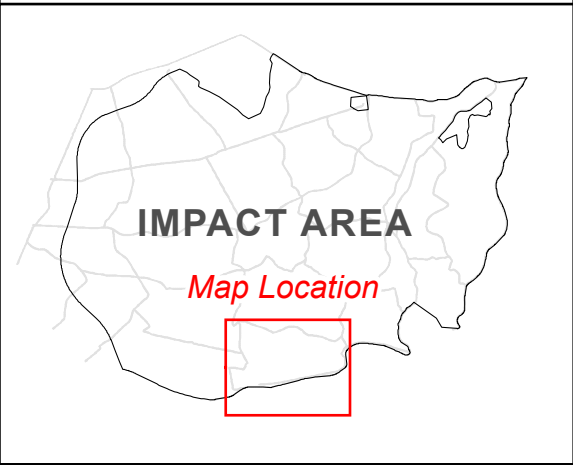
- Identification of specific sampling locations included combinations of the following criteria, however not all locations exhibiting one or more of the criteria were selected. Unit sampling selection criteria included:
  - Proximity to targets
  - Areas in which more than 500 pounds of MD were identified
  - Presence of MEC items most likely to be associated with elevated concentrations of explosive residues





**Legend**

- Proposed Sample Location
- Target from GIS Database
- Recon from Grid Sheets**
- Target
- Fighting Position
- Misc non-MD/MEC
- Previous Soil Sample Location
- MD Weight Removed**
- < 200 Lbs MD
- 200 - 500 Lbs MD
- > 500 Lbs MD
- Range Fan
- HA28 and HA29 Remediation Areas
- Permanent Fuel Break



0 500 1000 FEET

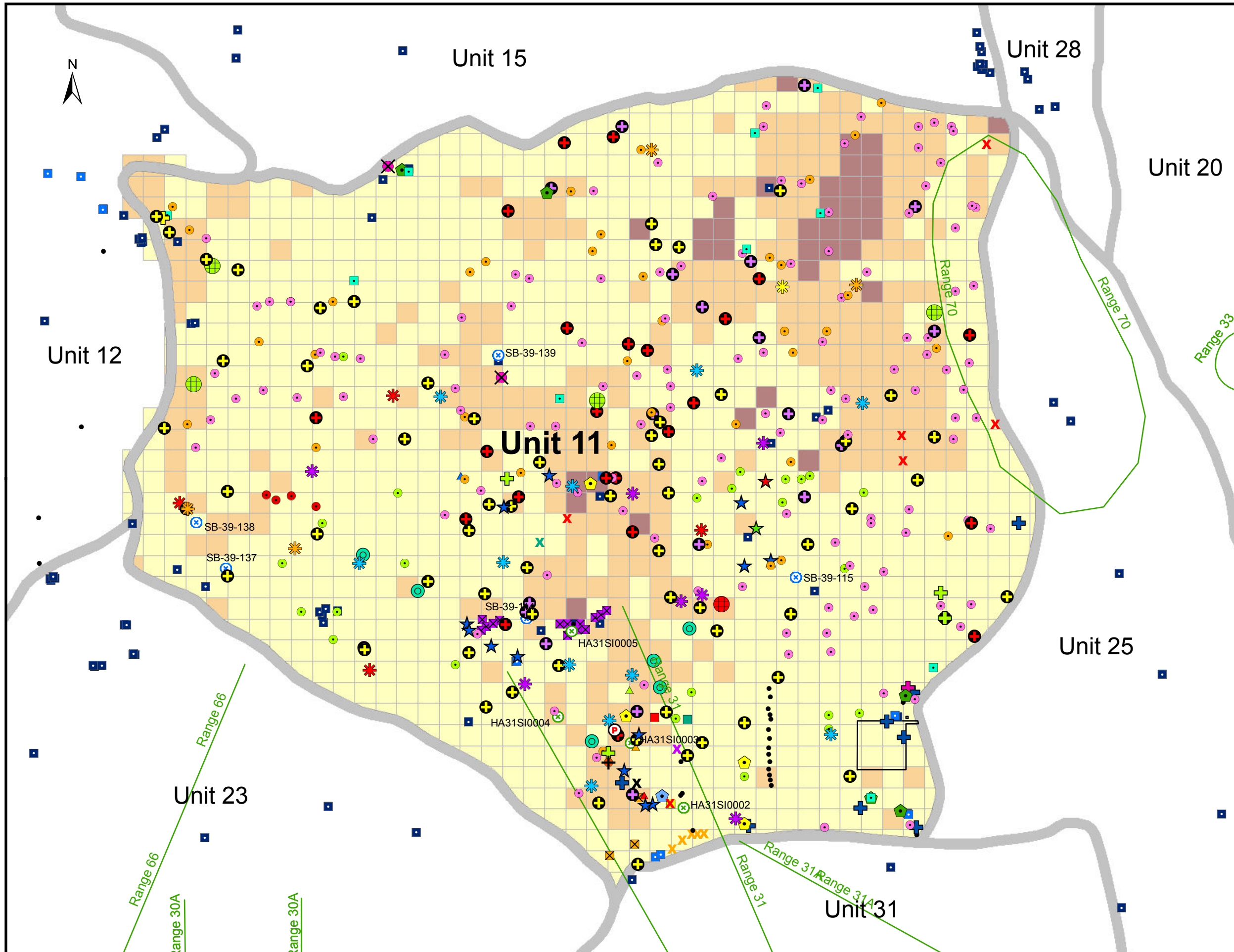
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Data presented on map are current as of the date below.  
Data have not undergone a quality control review and therefore, are subject to change.

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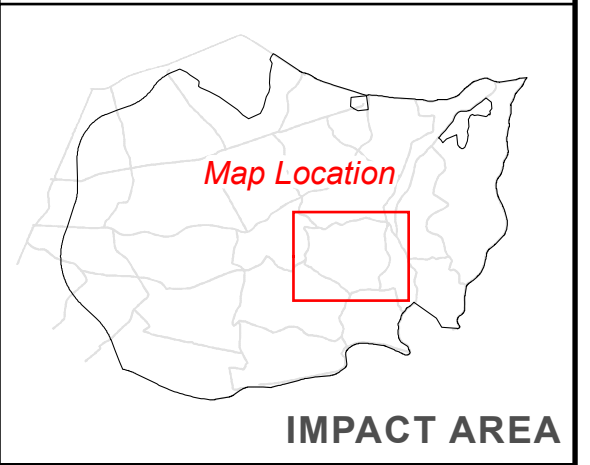
FIGURE NUMBER	FORMER FORT ORD Unit 4 Recon
N/A	

DATE	PROJECT NUMBER	FILE NAME
10/24/2012	141234	See Footer



- Target from GIS Database
- Recon from Grid Sheets
  - Target Box
  - Target
  - ✕ Firing Point
  - Misc non-MD/MEC
  - ⊕ Previous Boring Location
  - ⊕ Previous Soil Sample Location
- MD Weight Removed
  - < 200 Lbs MD
  - 200 - 500 Lbs MD
  - > 500 Lbs MD
- Range Fan
- ODDS
- Permanent Fuel Break

See Page 2 for list of MEC Items



0 450 900 FEET

Projection : NAD\_1983\_StatePlane\_California\_IV\_FIPS\_0404\_Feet

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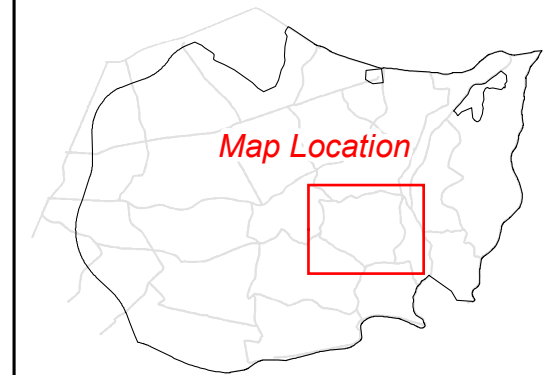
FIGURE NUMBER: N/A  
FORMER FORT ORD  
Unit 11 Recon

DATE	PROJECT NUMBER	FILE NAME
10/24/2012	141234	See Footer

MEC from Surface Removal

- ✘ Cartridge, 40mm, prac, M781
- ▲ Fuze, projectile, PD, M48 series
- ▲ Fuze, projectile, comb, M1907
- Grenade, hand, frag, M67
- Grenade, hand, prac, M69
- Grenade, hand, smoke, M18 series
- ✚ Mine, APERS, M18A1 (claymore)
- Projectile, 37mm, HE, M54
- Projectile, 37mm, HE, MK II
- Projectile, 37mm, LE, MK I
- Projectile, 37mm, LE, MK II
- ✘ Projectile, 40mm, HE, M383
- ✘ Projectile, 40mm, prac, M407A1
- ✘ Projectile, 40mm, prac, M918
- ✘ Projectile, 40mm, practice, model unknown
- Projectile, 57mm, HE, M306 series
- Projectile, 60mm, mortar, HE, M49 series
- Projectile, 60mm, mortar, illum, M83 series
- Projectile, 60mm, mortar, prac, M50 series
- Projectile, 75mm, HE, M48

- Projectile, 75mm, HE, MK I
- Projectile, 75mm, Shrapnel, MK I
- ✚ Projectile, 81mm, mortar, HE, M43 series
- ✚ Projectile, 81mm, mortar, illum, M301 series
- ✚ Projectile, 81mm, mortar, prac, M43 series
- ✚ Projectile, 81mm, mortar, smoke, WP, M375 series
- Projectile, 84mm, HEAT, M136 series (AT-4)
- ✘ Projectile, 90mm, HEAT, M371A1
- ✚ Projectile, 105mm, HE, M1
- ✚ Projectile, 105mm, smoke, M84 series
- ✚ Projectile, 155mm, HE, M107
- ✚ Projectile, 155mm, HE, MK 1
- ✚ Projectile, 155mm, shrapnel, MK 1
- Projectile, 8inch, HE, M106
- Projectile, 8inch, HE, MKIA1
- Pyrotechnic mixture, smoke
- ★ Rocket, 35mm, subcal, prac, M73
- ★ Rocket, 66mm, HEAT
- ★ Rocket, 66mm, incen, TPA, M74
- ▲ Signal, illum, ground, M125 series
- ▲ Signal, illum, ground, M126 series



**IMPACT AREA**

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FIGURE  
NUMBER  
N/A

FORMER FORT ORD  
Unit 11 Recon MEC Legend



DATE

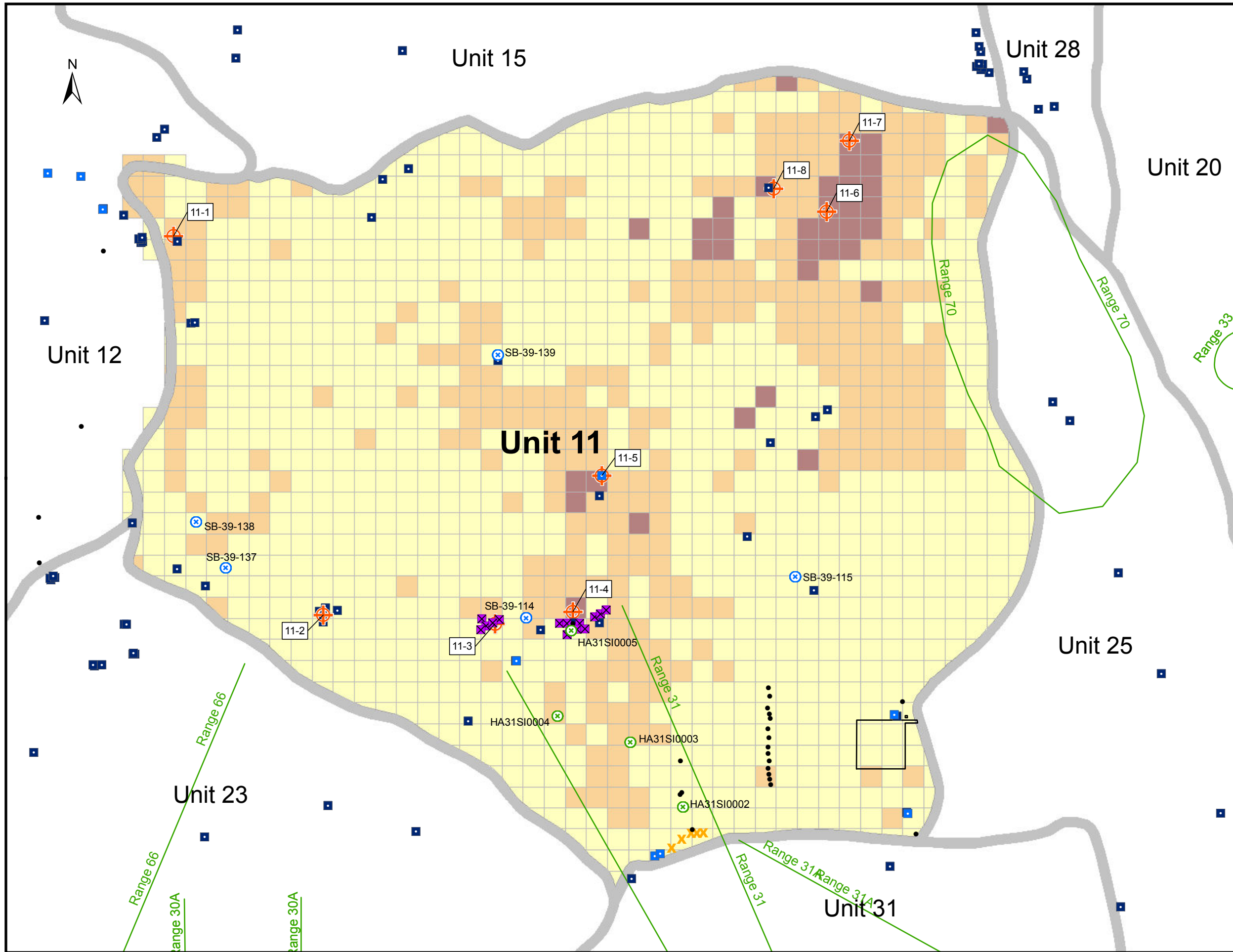
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FILE NAME

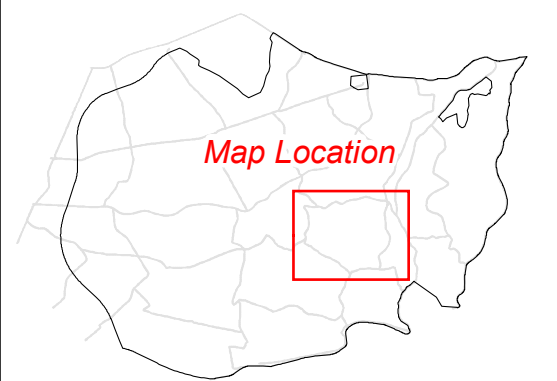
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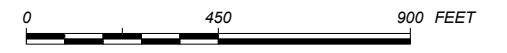
See Footer



- Proposed Sample Location
  - Target from GIS Database
  - Recon from Grid Sheets**
  - Target Box
  - Target
  - Firing Point
  - Misc non-MD/MEC
  - Previous Boring Location
  - Previous Soil Sample Location
  - MD Weight Removed**
  - < 200 Lbs MD
  - 200 - 500 Lbs MD
  - > 500 Lbs MD
  - Range Fan
  - ODDS
  - Permanent Fuel Break
- See Page 2 for list of MEC Items



**IMPACT AREA**



Projection : NAD\_1983\_StatePlane\_California\_IV\_FIPS\_0404\_Feet

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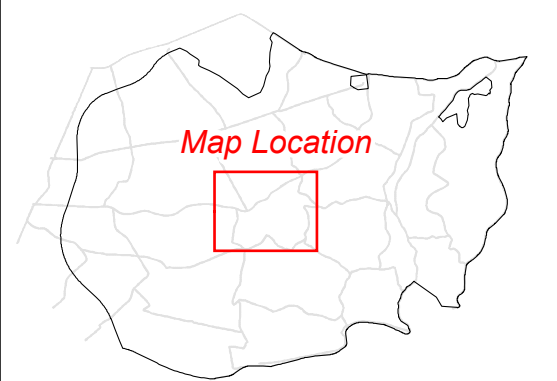
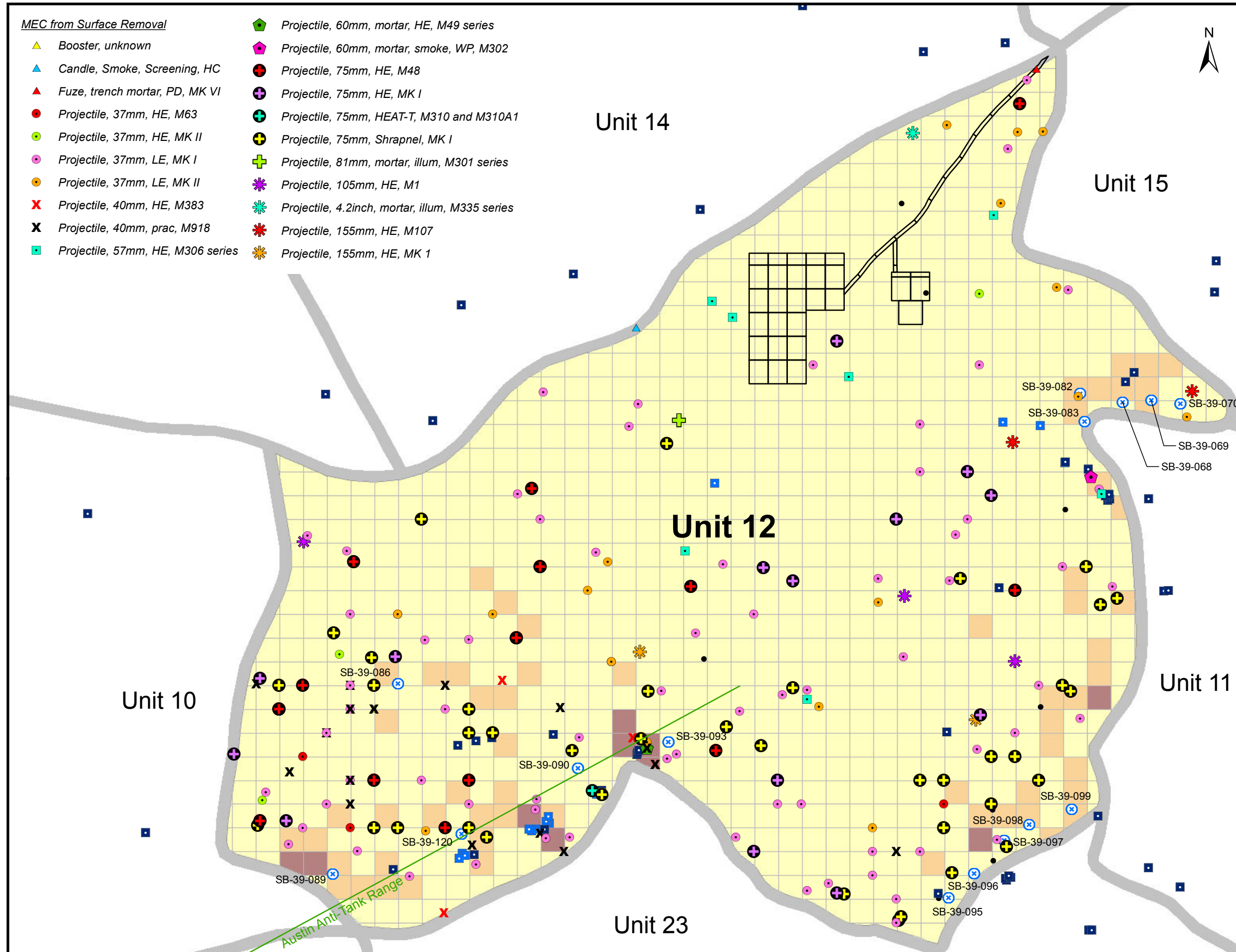
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**FORMER FORT ORD  
Unit 11 Recon**

DATE	PROJECT NUMBER	FILE NAME
10/24/2012	141234	See Footer

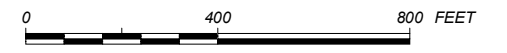
**MEC from Surface Removal**

- ▲ Booster, unknown
- ▲ Candle, Smoke, Screening, HC
- ▲ Fuze, trench mortar, PD, MK VI
- Projectile, 37mm, HE, M63
- Projectile, 37mm, HE, MK II
- Projectile, 37mm, LE, MK I
- Projectile, 37mm, LE, MK II
- ✕ Projectile, 40mm, HE, M383
- ✕ Projectile, 40mm, prac, M918
- Projectile, 57mm, HE, M306 series
- ◆ Projectile, 60mm, mortar, HE, M49 series
- ◆ Projectile, 60mm, mortar, smoke, WP, M302
- Projectile, 75mm, HE, M48
- Projectile, 75mm, HE, MK I
- Projectile, 75mm, HEAT-T, M310 and M310A1
- Projectile, 75mm, Shrapnel, MK I
- Projectile, 81mm, mortar, illum, M301 series
- Projectile, 105mm, HE, M1
- Projectile, 4.2inch, mortar, illum, M335 series
- Projectile, 155mm, HE, M107
- Projectile, 155mm, HE, MK 1

- Target from GIS Database
- Recon from Grid Sheets
- Target
- Misc non-MD/MEC
- ⊗ Previous Boring Location
- MD Weight Removed**
- < 200 Lbs MD
- 200 - 500 Lbs MD
- > 500 Lbs MD
- ~ Range Fan
- ODDS
- ▬ Permanent Fuel Break



**IMPACT AREA**



Projection : NAD\_1983\_StatePlane\_California\_IV\_FIPS\_0404\_Feet

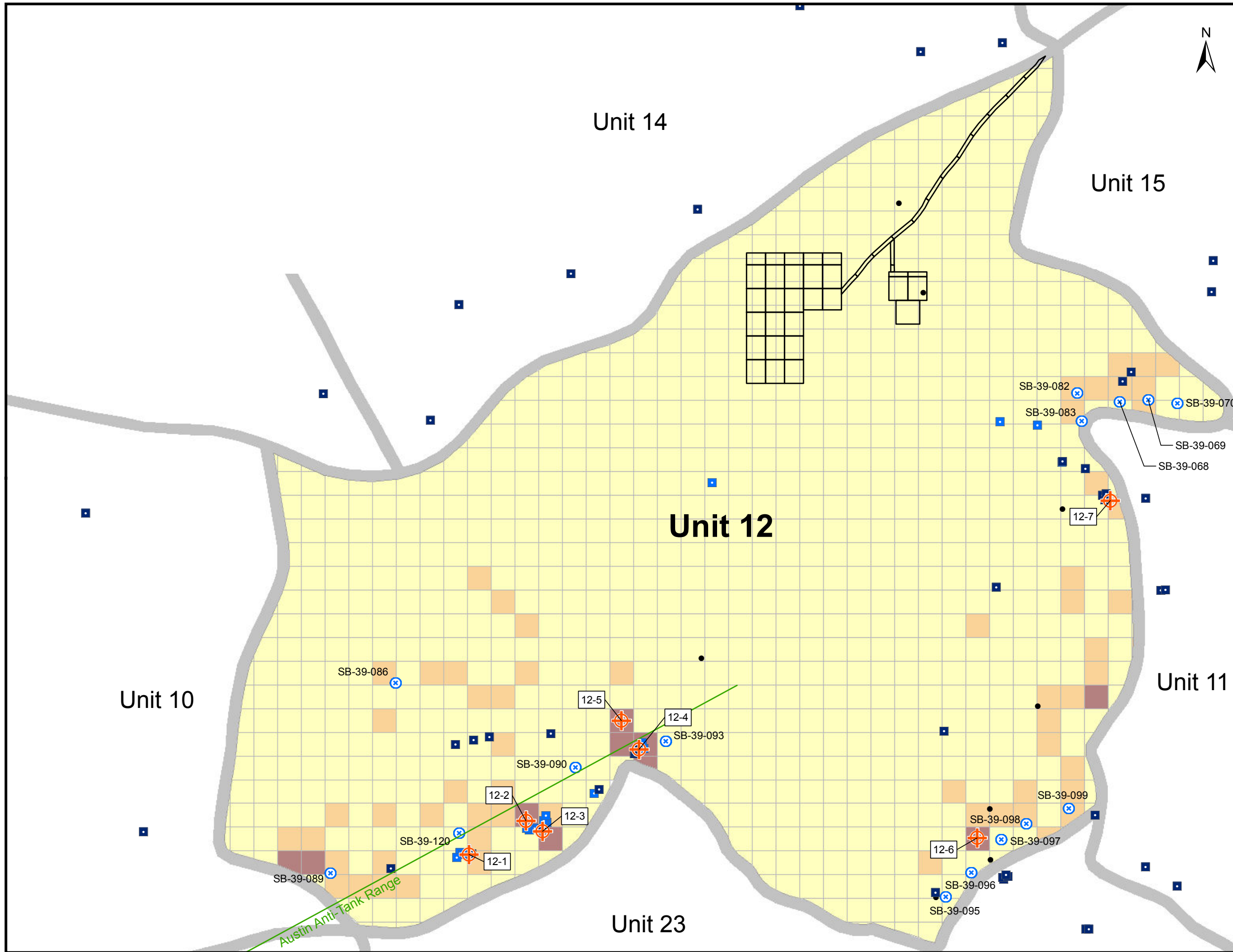
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CORPS OF ENGINEERS  
SACRAMENTO DISTRICT**

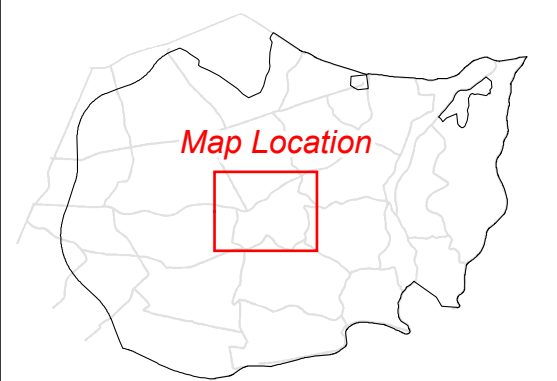
FIGURE NUMBER: N/A  
**FORMER FORT ORD  
Unit 12 Recon**

<b>ITSI Gilbane</b>	<b>Shaw</b>	
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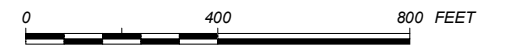
DATE	PROJECT NUMBER	FILE NAME
10/24/2012 12:57	141234	See Footer



- Proposed Sample Location
- Target from GIS Database
- Recon from Grid Sheets
- Target
- Misc non-MD/MEC
- Previous Boring Location
- MD Weight Removed
- < 200 Lbs MD
- 200 - 500 Lbs MD
- > 500 Lbs MD
- Range Fan
- ODDS
- Permanent Fuel Break



**IMPACT AREA**



Projection : NAD\_1983\_StatePlane\_California\_IV\_FIPS\_0404\_Feet

Data presented on map are current as of the date below. Data have not undergone a quality control review and therefore, are subject to change.

U.S. ARMY  
CORPS OF ENGINEERS  
SACRAMENTO DISTRICT

FIGURE NUMBER: N/A  
FORMER FORT ORD  
Unit 12 Recon

DATE	PROJECT NUMBER	FILE NAME
10/24/2012 12:57	141234	See Footer

**Burn Units 4, 11, and 12 Proposed Sampling Locations**

Burn Unit	Proposed Location	Sample Type	Sample Justification	Notes
Unit 4				No sampling is planned within the portions of Unit 4 that overlap with Historical Ranges 28, 29, 30, and 66. Remediation has already been completed on Ranges 28 and 29, and Ranges 30 and 66 were recommended for NFA in the FCBRA. MD density in all remaining grids was less than 20 lbs, and only 9 grids contained MD greater than 5 lbs. Sampling will be limited to areas in the vicinity of known targets.
Unit 4	4-1	metals/lead	Target location	Target vicinity represents the likely worst-case scenario for potential elevated lead concentrations
Unit 4	4-2	metals/lead	Target location	Target vicinity represents the likely worst-case scenario for potential elevated lead concentrations
Unit 11				The area within Unit 11 is known to have included use of HE projectiles, rockets, mines, grenades and associated munitions.
	11-1	TNT/RDX/HMX	Target vicinity, medium density MD	
	11-2	TNT/RDX/HMX	Target vicinity	Multiple targets
	11-3	TNT/RDX/HMX	Target vicinity, MEC	Multiple targets
	11-4	TNT/RDX/HMX	Target vicinity, high density MD	Multiple targets
	11-5	TNT/RDX/HMX	Target vicinity, high density MD, MEC	
	11-6	TNT/RDX/HMX	High density MD, MEC	
	11-7	TNT/RDX/HMX	High density MD, MEC	
	11-8	TNT/RDX/HMX	Target vicinity, high density MD, MEC	
Unit 12				A portion of Unit 12 is within the historical range fan of the Austin Anti-Tank Range where associated anti-tank MEC and HE items were known to have been used.
	12-1	TNT/RDX/HMX	Target vicinity, medium density MD, within Austin AATR	
	12-2	TNT/RDX/HMX	Target vicinity, high density MD	
	12-3	TNT/RDX/HMX	Target vicinity, high density MD	
	12-4	TNT/RDX/HMX	Target vicinity, high density MD, MEC	
	12-5	TNT/RDX/HMX	Target vicinity, high density MD	
	12-6	TNT/RDX/HMX	Area of high density MD	
	12-7	TNT/RDX/HMX	Target vicinity, medium density MD	

## **01-29-13 Update - Fort Ord Real Estate Actions**

### **FOST 11:**

1. July 2010 – Draft Final FOST issued for 30-day public comment period. No comments received.
2. September 2010 – USEPA and DTSC concurrence received. FOST staffed for DASA signature.
3. December 2010 – ODASA sent FOST back to BRAC-D without signature.
4. January 2011 – ELD and OGC met with ODASA to revise FOST.
5. February 2011 – USATCES and DDESB approved FOST. ELD submitted revised FOST to ODASA for review.
6. March 2011 – Army agreed to delete descriptions of MEC hazard scores and ECP Categories from FOST.
7. May 2011 – submitted revised FOST to USEPA and DTSC. USEPA stated it cannot accept changes.
8. June 2011 – after discussions with USEPA, ODASA made revisions to FOST, sent to OGC and ELD.
9. September 2011 – revised FOST submitted to USEPA and DTSC. USEPA still finds FOST unacceptable.
10. October 2011 – USEPA sent proposed changes to FOST to Army.
11. November 2011 – conference call scheduled for 9 Dec between Army, DTSC and USEPA.
12. December 2011 – conference call ended without resolution. OGC met with DASA (ESOH).
13. January 2012 – FOST revised, submitted to USEPA and DTSC 30 Jan.
14. February 2012 – USEPA submitted comments on FOST and stated non-concurrence on 9 Feb.
15. March 2012 – DTSC submitted comments on FOST, including statement of non-concurrence on 9 Mar.
16. September 2012 – conference call 24 Sep between BRACD, ELD, OGC and Fort Ord BRAC. ELD and OGC preparing responses to USEPA and DTSC comments.
17. November 2012 – OGC to schedule meeting with DASA (ESOH).

### **FOST 12:**

1. November 2011 – preliminary draft FOST submitted to Fort Ord BRAC and USACE for review.
2. December 2011 – BRAC and USACE comments received.
3. January 2012 – FOST revised and submitted to BRAC-D for review.
4. February 2012 – BRAC-D completed review and forwarded to ODASA and ELD for review on 9 Feb.
5. March 2012 – received comments from BRAC-D, ELD and ODASA on 1 Mar. Revised FOST and submitted to ELD for back check 22 Mar.
6. April 2012 – ELD completed back check 17 Apr.
7. June 2012 – FOST issued for regulatory agency review 14 Jun, comments requested by 16 Jul.
8. July 2012 – comments received from USEPA 12 Jul.
9. August 2012 – comments received from DTSC 7 Aug. FOST revised to address agency comments. ELD approved revisions and FOST issued for 30-day public review period. Comments due 24 Sep.
10. September 2012 – comments received from USEPA 19 Sep.
11. October 2012 – FOST revised per USEPA comments, concurrence requested.
12. November 2012 – Conference call on 6 Nov with USEPA to clarify description of institutional controls for groundwater restrictions. USEPA provided concurrence on FOST on 13 Nov. UC submitted comments 28 Nov.
13. December 2012 – BRAC-D executed FOST on 14 Dec.
14. January 2013 – UC requested a discussion about how comments will be addressed 2 Jan. Draft responses to UC comments prepared and meeting to be scheduled for later this week.



## **01-29-13 Update - Fort Ord Real Estate Actions**

### **FOSET 4 deed amendment:**

1. November 2008 – ROD for Del Rey Oaks MRA complete and signed.
2. June 2010 – Per USEPA, CERCLA Warranty cannot be issued until variance to CRUP is complete.
3. July 2010 – Del Rey Oaks submitted letter to DTSC requesting variance to the CRUP. Draft Final Remedial Design/Remedial Action Work Plan issued.
4. August 2010 – USEPA determined all remedial actions implemented and completed.
5. November 2010 – surveyor completed legal description.
6. March 2011 – Del Rey Oaks forwarded legal description to DTSC.
7. April 2011 – DTSC determined a CRUP amendment would be more appropriate than a variance.
8. July 2011 – DTSC submitted draft CRUP amendment/partial termination to Fort Ord BRAC for review.
9. August 2011 – updated draft deed amendment submitted to USACE SPK for review. DTSC and Del Rey Oaks signed CRUP amendment. Copy of amendment submitted to USACE for reference.
10. November 2011 – USACE SPK Office of Counsel concerned request for variance to CRUP made by Del Rey Oaks City Manager; however, property owned by Del Rey Oaks Redevelopment Agency and DTSC processed a CRUP amendment and partial termination, not a variance.
11. December 2011 – Spoke with Del Rey Oaks City Manager (also Executive Director of the Redevelopment Agency). Property is still owned by the Redevelopment Agency. DTSC Counsel unexpectedly retired.
12. February 2012 – Redevelopment Agency transferred property to the City. The City sent a new letter to DTSC requesting a termination of restrictions. Copy of letter and supporting documentation forwarded to USACE SPK 16 Feb. USACE SPK Office of Counsel stated this is sufficient on 24 Feb.
13. March 2012 – DTSC revised CRUP amendment, submitted to USEPA and Army for review. USEPA review completed 8 Mar with no revisions, USACE review completed 19 Mar with significant revisions.
14. April 2012 – After consultation with USACE Office of Counsel, revised CRUP amendment submitted to DTSC 19 April. DTSC Counsel out of office until 14 May.
15. May 2012 – DTSC Counsel reviewed revisions, requested a conference call to discuss.
16. June 2012 – conference call between Fort Ord BRAC, DTSC Counsel and USACE SPK Office of Counsel on 6 Jun. USACE explained rationale for revisions. DTSC Counsel is considering.
17. July 2012 – DTSC submitted revised CRUP amendment to Army. Some USACE SPK revisions incorporated.
18. August 2012 – DTSC executed CRUP amendment 21 Aug and submitted to Monterey County for recordation. Monterey County rejected because notary seal did not scan properly.
19. September 2012 – USACE SPK Office of Counsel sent revised deed amendment to BRAC Office 4 Sep, revisions in progress. DTSC resubmitted executed CRUP amendment to Monterey County 7 Sep. CRUP Amendment recorded 17 Sep.
20. October 2012 – revised deed amendment sent back to USACE SPK Office of Counsel 2 Oct.
21. November 2012 – conference call with BRAC, SPK OC, SPK RE. Agreed to some revisions. SPK OC still to review provisions for land use restrictions and long term management measures. BRAC-FO to check with BRAC-D on some proposed revisions.
22. December 2012 – ELD reviewed and revised deed amendment, submitted to SPK OC.
23. January 2013 – conference call with BRAC, SPK OC, ELD. SPK OC made additional revisions. Follow-up call with BRAC, ELD and SPK OC 24 Jan. SPK OC submitted additional revisions 25 Jan.

## **01-29-13 Update - Fort Ord Real Estate Actions**

### **Parcel L20.4 (Oil Well Rd) transfer to BLM:**

1. February 2012 – Preliminary Draft Track 1 Plug-In Approval Memorandum, BLM East/Post-1940 Area submitted for Army internal review.
2. April 2012 – Draft Track 1 Plug-In Approval Memorandum, BLM Area A issued 30 Apr for regulatory agency review, comments requested by 30 May.
3. May 2012 – USEPA submitted comments, DTSC requested extension of comment period by 30 days to 30 Jun.
4. June 2012 – Preliminary Draft Environmental Condition of Property (ECP) Update Report submitted to Fort Ord BRAC Office for review 15 Jun. No comments yet received from DTSC.
5. July 2012 – BRAC Office comments on ECP Update Report received 5 Jul. Revisions complete.
6. August 2012 – Track 1 Plug-In Approval Memorandum issued for 30-day public review period. Comments due 27 Sep.
7. September 2012 – comments on ECP Update Report received from ELD 12 Sep.
8. October 2012 – responses to ELD comments completed. No comments on Approval Memorandum. DTSC concurred on Approval Memorandum on 25 Oct.
9. November 2012 – USEPA concurred on Approval Memorandum on 1 Nov.
10. December 2012 – BRAC executed ECP Update Report. Submitted to SPK with all supporting documents.
11. January 2013 – conference call with BRAC and SPK to clarify requirements for the transfer assembly package. SPK OC requested letter from BLM confirming HMP compliance and intended use of the property. BLM is preparing letter and obtaining a waiver from OMB for a no-cost fed-fed transfer.

### **RCRA Corrective Action Complete Determination (CACD):**

1. June 2012 – Army submitted request to DTSC 27 Jun for CACD for FOSTs 6 (Parcel L23.3.1 only), 8, 9 and 10 property, and FOSET 5 property where remedy is complete (Parker Flats MRA Phase I and County North MRA).
2. January 2013 – DTSC preparing CACD letter.

**Fort Ord Munitions Response BCT Meeting  
Summary of Action Items (December 7, 2012)**

Action Item Description                                      Action Party      Due Date      Comments

**Site Security/Incident Reports/Detonations**

**Field Work/Removal Action Updates/FWVs**

	Reach resolution of Broadway Bypass idea.	Army		(Aug2012) BLM comment on possible Broadway Bypass (within Ranges 43-48South footprint) will be resolved in a future evaluation.
C	Review location of subsurface removal areas as part of MOUT buffer with BLM, MPC and their respective fire agencies.	Army		(Sep2012) The areas immediately adjacent to property boundary present significant terrain challenges that the buffer in its designated location may not be ideal to support firefighting.
	Confirm that ESCA Remediation Program will adjust its field activities to avoid prescribed burn related activities.	FORA		
C	Provide the updated prescribed burn staff notification list to DTSC.	Army	As soon as possible	
*	Provide to MRBCT information on munitions items being recovered during the Site 39 soil remediation program.	Army	Next BCT meeting	

**FFA Schedules and MR RI/FS**

	Review administrative process for ordnance ordinance after remedy selection at a site (MRS-34).	EPA/DTSC		
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\* indicates new action item  
 "R" indicates revised action item  
 "C" and gray cells indicate completed items to be withdrawn from list next month

**Fort Ord Munitions Response BCT Meeting  
Summary of Action Items (December 7, 2012)**

<u>Action Item Description</u>	<u>Action Party</u>	<u>Due Date</u>	<u>Comments</u>
<b>Property Transfer</b>			
FOSETs 4/5 CERCLA warranty and deed amendment: the Army will provide EPA and DTSC copies when final.	Army		(Sep2011) Deed Amendments for FOSET5 County North, FOSET5 Parker Flats properties and for FOSET2 properties have been provided to the agencies. Associated letters (for AR) have been provided to EPA, DTSC and FORA.
C	Provide a copy of recorded amended CRUP for FOSET4 parcels.	DTSC	
<b>Ongoing Actions/Other</b>			
Issue RCRA corrective action closure letters for parcels addressed in FOSTs 6/8/9/10.	DTSC		(Mar2012) Notice for FOST6 parcels is complete. (Jun2012) The Army will send a revised request for CACD concerning FOST6 parcels. (Jul2012) The Army has issued a request for CACD concerning several transferred parcels that were part of FOSTs 6/8/9/10 and FOSET5.
Monthly 3-month deliverables schedule review at BCT meetings	All	Monthly	The Army to work on formatting to meet agency needs.
C	Finalize MR BCT minutes from August 8.	Army	Monthly
C	Finalize MR BCT minutes from September 25.	Army	Monthly
	Finalize MR BCT minutes from October 10.	Army	Monthly
*	Finalize MR BCT minutes from December 7.	Army	Monthly

\* indicates new action item

"R" indicates revised action item

"C" and gray cells indicate completed items to be withdrawn from list next month

**Report Status - OE & FOST**

1.29.2013

<u>Issue Year</u>	<u>Site</u>	<u>Document Title</u>	<u>Version</u>	<u>Proposed Issue Date</u>	<u>Issue Date Status</u>	<u>Comments Due</u>	<u>Note:</u>
2012	OE-TK3ImpactArea	MRS-BLM Units 15,21,32 and 34 (2010 Units) Remedial Action Report	Draft	31-Aug-12	Issued	9-Oct-12	EPA 10/4, DTSC 11/2
2013	OE-TK3ImpactArea	MRS-BLM Units 15,21,32 and 34 (2010 Units) Remedial Action Report	Draft Final	31-Jan-13		2-Mar-13	Extended to document additional work
2013	OE-TK3ImpactArea	MRS-BLM Units 15,21,32 and 34 (2010 Units) Remedial Action Report	Final	1-Apr-13			
TBD	OE-TK3ImpactArea	MRS-BLM Non-Burn Fuelbreaks Technical Information Paper (RTD)	Draft		TBD		
TBD	OE-TK3ImpactArea	MRS-BLM Non-Burn Fuelbreaks Technical Information Paper (RTD)	Draft Final				
TBD	OE-TK3ImpactArea	MRS-BLM Non-Burn Fuelbreaks Technical Information Paper (RTD)	Final				
2013	OE-TK3ImpactArea	MRS-BLM Units 4, 11 and 12 (2011 Units) Technical Memorandum	--	18-Mar-13			Within 45 days of completion of DGM
TBD	OE-TK3ImpactArea	MRS-BLM Units 4, 11 and 12 (2011 Units) Remedial Action Report	Draft	TBD			Within 60 days after MEC remedial actions are complete
TBD	OE-TK3ImpactArea	MRS-BLM Units 4, 11 and 12 (2011 Units) Remedial Action Report	Draft Final				
TBD	OE-TK3ImpactArea	MRS-BLM Units 4, 11 and 12 (2011 Units) Remedial Action Report	Final				
2013	OE-TK3ImpactArea	Impact Area MRA Surface Remediation Area Annual Monitoring Report (2013)	--	30-Sep-13		--	
2012	OE-RemainingAreas	Track 2 Proposed Plan MRS-34 (FAAF)	Draft	12-Oct-12	Issued	8-Jan-13	EPA email 10/31 & 11/7; DTSC email 11/15 & letter 1/8/2013
2013	OE-RemainingAreas	Track 2 Proposed Plan MRS-34 (FAAF)	Draft Final	7-Feb-13		9-Mar-13	
2013	OE-RemainingAreas	Track 2 Proposed Plan MRS-34 (FAAF)	Final (public comment period)	8-Apr-13		8-May-13	

**Report Status - OE & FOST**

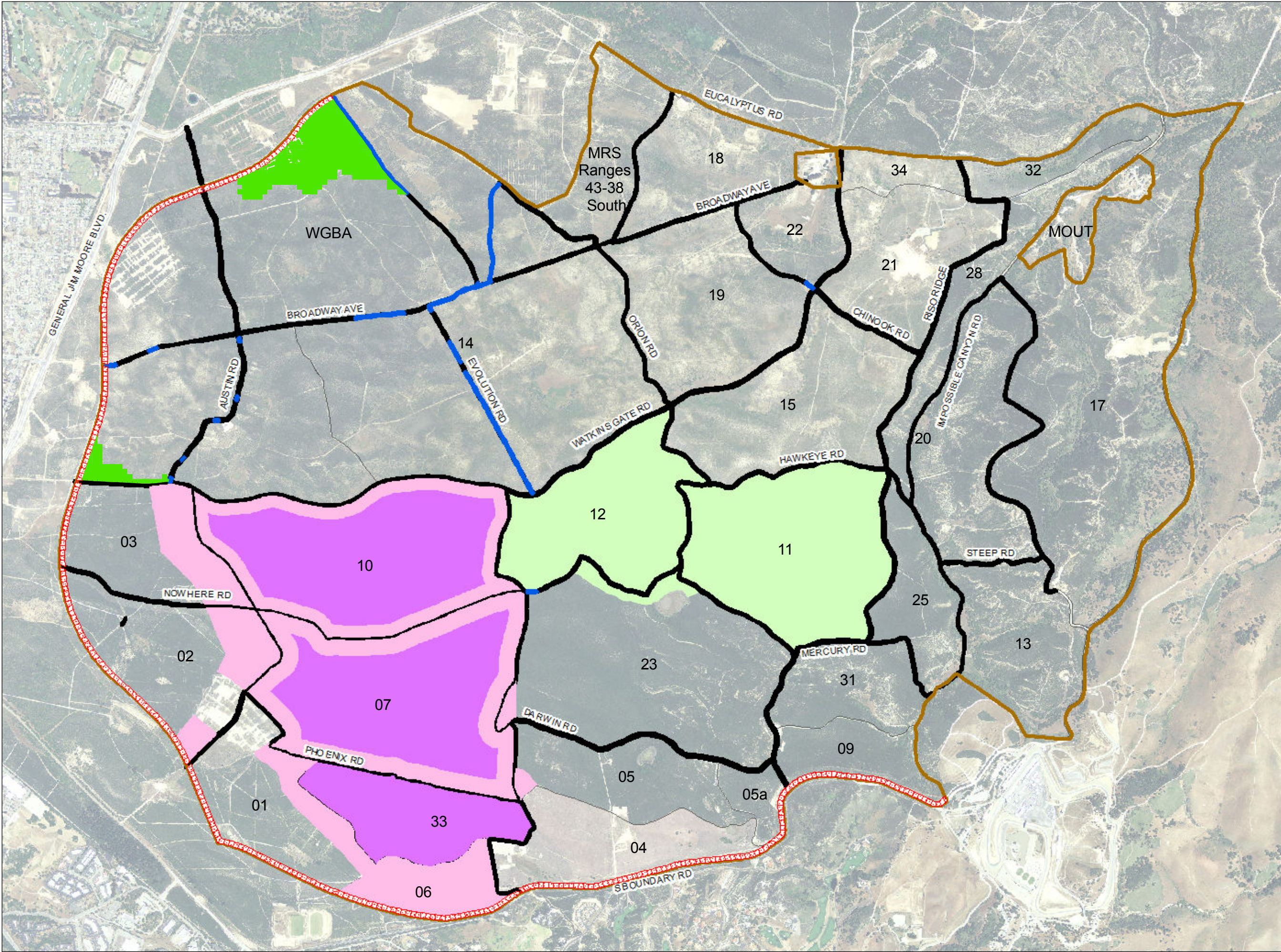
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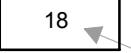



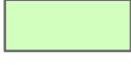



<u>Issue Year</u>	<u>Site</u>	<u>Document Title</u>	<u>Version</u>	<u>Proposed Issue Date</u>	<u>Issue Date Status</u>	<u>Comments Due</u>	<u>Note:</u>
2013	OE-RemainingAreas	Track 2 ROD MRS-34 (FAAF)	Draft	30-Jun-13		29-Aug-13	
2013	OE-RemainingAreas	Track 2 ROD MRS-34 (FAAF)	Draft Final	28-Sep-13		28-Oct-13	
2013	OE-RemainingAreas	Track 2 ROD MRS-34 (FAAF)	Final (signature process)	27-Nov-13		27-Dec-13	
TBD	OE-RemainingAreas	Track 1 Plug-In Approval Memorandum BLM Area C	Draft (agencies)		TBD		
TBD	OE-RemainingAreas	Track 1 Plug-In Approval Memorandum BLM Area C	Draft Final (public review)				
TBD	OE-RemainingAreas	Track 1 Plug-In Approval Memorandum BLM Area C	Final (RTC)				
TBD	OE-RemainingAreas	Track 2 RI/FS BLM Area B	Draft		TBD		
TBD	OE-RemainingAreas	Track 2 RI/FS BLM Area B	Draft Final				
TBD	OE-RemainingAreas	Track 2 RI/FS BLM Area B	Final				
2013	OE-LUCs	Track 2 Del Rey Oaks MRA Annual Monitoring Report (2011-12)	--	30-Sep-13			Reported thru FORA per LUC monitoring MOU (OTH-255)
2013	OE-LUCs	Track 2 Parker Flats MRA (three parcels) Annual Monitoring Report (2012)	--	22-Jan-13	Issued		
2013	OE-LUCs	MRS Security Program Annual Report (2012)	--	30-Jun-13			
TBD	FOST	FOSET4 (DRO) Deed Amendment	--		TBD		
2012	FOST	FOST12	Draft	14-Jun-12	Issued	16-Jul-12	
2012	FOST	FOST12	Draft Final (public review)	24-Aug-12	Issued	24-Sep-12	EPA 9/19
2012	FOST	FOST12	Final	30-Nov-12			In staffing for signature

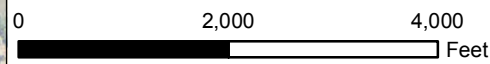
**Track 2 MRS-34 (FAAF)  
 Former Fort Ord  
 DRAFT**

Deliverable/Event	Current Deadlines	Deadline Revision Rationale
<b>Track 2 MRS-34 (FAAF)</b>		
Draft Final Ordnance and Explosives Remedial Investigation/Feasibility Study Work Plan	(Finalized 6/00)	
Draft Track 2 MRS-34 (FAAF) Remedial Investigation/Feasibility Study	3/12	
Comments Due	5/12	
Draft Final Track 2 MRS-34 (FAAF) Remedial Investigation/Feasibility Study	7/12	
Comments Due	9/12	
Draft Track 2 MRS-34 (FAAF) Proposed Plan	10/12	
Comments Due	1/13 (12/12)	Reflects the actual receipt of agency comments.
Draft Final Track 2 MRS-34 (FAAF) Proposed Plan	2/13 (1/13)	Reflects the change above.
Comments Due	3/13 (2/13)	“
Public Comment Period	4/13 (3/13)	“
Draft Track 2 MRS-34 (FAAF) ROD	6/13 (5/13)	“
Comments Due	8/13 (7/13)	“
Draft Final Track 2 MRS-34 (FAAF) ROD	8/13 (8/13)	“
Comments Due	10/13 (9/13)	“
Final Track 2 MRS-34 (FAAF) ROD Signed	12/13 (11/13)	“

**Former Fort Ord  
MRS BLM MR  
Remediation Status  
22 January 2014**



-  Impact Area (Track 3)
-  Unit Boundary
-  Unit Name
-  WGBA Surface Removal in Progress
-  100' Blue Line Buffer Subsurface Removal in Progress
-  Unit 10 / 7 / 33 Removal in Progress
-  Units 11 and 12 Surface Complete
-  45' Subsurface Removal Completed
-  45' Subsurface Surface Removal Pending
-  Prescribed Burn Containment Surface Complete



PRINT DATE: 1/22/2014	SOURCE OF DATA: Fort Ord MMRP Database
AERIAL PHOTOGRAPHY: 2012 Orthophotography	SCALE: 1:21,971
DRAWN BY: Cary.a.stiebel@usace.army.mil	SCALE: 1 inch equals 1,831 feet
FILE: Current MR work 2013 with FB Phases 1-15-2014.mxd	