

**Bureau of Land Management Area B  
Unit B-3W  
Munitions and Explosives of Concern  
Remedial Action  
Technical Memorandum  
Former Fort Ord, California**

**November 2018**

*Prepared for*



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## *List of Acronyms*

AR	Administrative Record
Army	United States Department of the Army
BLM	United States Bureau of Land Management
DGM	Digital Geophysical Mapping
DMM	Discarded Military Munitions
FWV	Field Work Variance
ISD	Insufficient Data
KEMRON	KEMRON Environmental Services, Inc.
MD	Munitions Debris
MRA	Munitions Response Area
MEC	Munitions and Explosives of Concern
OD	Other Debris
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
RA	Remedial Action
RD	Remedial Design
RRD	Range-Related Debris
SSWP	Site-Specific Work Plan
TM	Technical Memorandum
USACE	United States Army Corps of Engineers
UXO	Unexploded Ordnance



## 1.0 Introduction

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This Technical Memorandum (TM) describes the Munitions and Explosives of Concern (MEC) Remedial Actions (RAs) performed by KEMRON Environmental Services, Inc. (KEMRON), with Gilbane as a subcontractor, within Bureau of Land Management (BLM) Area B, Unit B-3W (Figure 1). The RAs within BLM Area B, Unit B-3W occurred under the following:

- *Final Record of Decision Track 2 Bureau of Land Management Area B and Munitions Response Site 16 Former Fort Ord, California* [United States Department of the Army (Army), 2017];
- *Final Work Plan Remedial Design (RD)/Remedial Action (RA) Track 2 Bureau of Land Management Area B and Munitions Response Site 16 Former Fort Ord, California* (KEMRON, 2017a); and
- *Final Site-Specific Work Plan Munitions and Explosives of Concern Remedial Action BLM Area B Former Fort Ord, California* (BLM Area B SSWP; KEMRON, 2017b).

Surface MEC removal and Digital Geophysical Mapping (DGM) are complete within Unit B-3W. This document evaluates and presents a review of the results of the surface MEC removal as well as the DGM data. Based upon an evaluation of the results of RAs performed to date and the Army - BLM joint inspection (Appendix A), this document provides recommendations concerning additional RA.

### 1.1 Site Location

Unit B-3W (approximately 63 acres) is located in Remedial Work Area B-3W within BLM Area B. Unit B-3W is bounded by Eucalyptus Road to the southwest, Munitions Response Site 16 to the southeast, and Parker Flats Road to the northeast (Figure 1). The northwestern boundary of the unit coincides with the boundary of the Fort Ord National Monument.

## 2.0 Work Completed

KEMRON initiated field work in Unit B-3W in July 2017 in accordance with BLM Area B SSWP (KEMRON, 2017b). To date, work completed in Unit B-3W includes vegetation clearance, technology-aided surface MEC removal (surface MEC removal), and DGM survey. [Table 1](#) shows cumulative results for the surface MEC removal and DGM survey. KEMRON implemented Quality Control/Quality Assurance (QC/QA) processes in accordance with the BLM Area B SSWP (KEMRON, 2017b).

Table 1. Unit B-3W Cumulative Results of Surface MEC Removal and DGM Survey

Parameter	Totals
Surface MEC removal acreage*	63
Digital Geophysical Mapping (DGM) survey acreage**	44
Munitions and Explosives of Concern (MEC) items***	37
Total Estimated Munitions Debris (MD) Weight (lbs)	3,416
Total Estimated Range Related Debris (RRD) and Other Debris (OD) (lbs)	26,293

\*Unexploded Ordnance (UXO) personnel conducted surface MEC removal over the entire unit (63 acres)

\*\*Approximately 19 acres were inaccessible due to the presence of trees and other vegetation specifically marked for protection and avoidance, small areas with steep terrain, as well as the existing structures

\*\*\*Encountered during surface MEC removal

### 2.1 Vegetation Clearance

Vegetation clearance to support RAs occurred between July 2017 and January 2018 ([Table 2](#)). Manual (approximately 16 acres) and mechanical (approximately 47 acres) mastication occurred as shown in [Figure 2](#). Vegetation clearance occurred in accordance with the BLM Area B SSWP (KEMRON, 2017b).

Table 2. Unit B-3W Vegetation Clearance

Operation ID	Vegetation Clearance Type	Date
Parker Flats Road*	Mechanical	July 2017
	Manual	August 2017
Eucalyptus Road*	Mechanical	August 2017
B-3W	Mechanical	September 2017
	Manual	December 2017 – January 2018

\*Operation to support prescribed burns planned in 2017.

The BLM Area B SSWP (KEMRON, 2017b) identified that vegetation will be cut to a height of six inches or less above the ground surface (excluding trees with a diameter of four inches or larger at breast height) unless vegetation is specifically marked for protection and avoidance. Hand crews limbed the trees left standing, to a height specified for fire safety, and retained all branches larger than four inches in diameter. At the request of BLM, and with authorization from the Army, a number of manzanitas in this area were retained. Additionally, the Project Biologist marked Toro manzanita, a species identified in the *Installation-wide Multispecies Habitat Management Plan for Former Fort Ord, California* [United States Army Corps of Engineers (USACE), 1997], for protection and avoidance. Manzanitas left standing were limbed, if necessary, with only the minimum amount of limbs removed to allow access beneath the individuals. Hand crews manually cleared the understory so that UXO personnel could conduct surface MEC removal in this area.

## **2.2 Technology-Aided Surface MEC Removal**

Surface MEC removal followed vegetation clearance and utilized remedial work grids. Surface MEC removal occurred between September 2017 and April 2018. Surface MEC removal for areas along Parker Flats Road and Eucalyptus Road were conducted in support of burn preparations for BLM Area B Units B and C in September 2017. Surface MEC removal was conducted in the remaining B-3W grids from September 2017 and January to April 2018. UXO personnel with Schonstedt magnetometers used search lanes approximately five feet in width. Surface MEC removal occurred in all remedial work grids in Unit B-3W (Figure 3) and met the QC/QA measurement quality objectives. The QC results are included in Appendix B. The QA results are included in Appendix C.

## **2.3 Digital Geophysical Mapping Survey**

Field personnel conducted the DGM survey with a vehicle-towed EM61-MK2A between June 2018 and September 2018 (approximately 44 acres). The BLM Area B SSWP (KEMRON, 2017b) stated that no significant difference exists in the quality of DGM data meeting the Category B standard defined in the *Final Quality Assurance Project Plan Former Fort Ord, California Volume II Appendix A Munitions and Explosives of Concern Remedial Action* (MEC QAPP; KEMRON, 2016) (at least 95% of the data acquired at 2.5-foot line spacing and 98% acquired at 3-foot line spacing) and data meeting the Category A standard (at least 95% of the data acquired

at 2-foot line spacing, 100% acquired at 3-foot line spacing, and no unexplained data gaps), apart from the allowed existence of small data gaps in Category B data. Category B DGM data is acceptable for general subsurface mapping and may only require fill-in of small data gaps to meet the Category A standard necessary for targeting and subsurface removal. Anticipating future subsurface removal in some portions of Unit B-3W but not in others, the Project Geophysicist implemented a “Modified Category A” standard to provide a more practical approach of obtaining the data coverage necessary for target identification in subsurface removal areas without requiring fill-in of small data gaps in areas where subsurface removal would not be conducted. The Modified Category A standard specifies that at least 95% of the data is acquired at 2-foot line spacing and 99.5% is acquired at 3-foot line spacing. [Figure 6](#) depicts the DGM survey results. The DGM survey met the QC/QA measurement quality objectives. The DGM QC results are included in [Appendix D](#). [Appendix D](#) identifies the grids selected for reprocessing by the QC Geophysicist and defined the categories used for data collection. [Appendix E](#) includes the USACE DGM QA Approval and Discussion.

Due to the presence of trees and other vegetation specifically marked for protection and avoidance, small areas with steep terrain, as well as existing structures approximately 19 acres were inaccessible to DGM survey.

## ***2.4 Summary of MEC/MD Removed***

UXO personnel managed items encountered and removed during RAs in a manner consistent with the BLM Area B SSWP (KEMRON, 2017b) and the MEC QAPP (KEMRON, 2016). The UXO personnel recovered 37 MEC items ([Table 3](#), [Appendix F](#), and [Figure 3](#)) during the RA under the BLM Area B SSWP (KEMRON, 2017b). The MEC items [Discarded Military Munitions (DMM) and UXO] and Munitions Debris (MD) recovered did not indicate presence of munitions with sensitive fuzes. One Insufficient Data (ISD) MEC item record exists from range control operations in 1985 and one MEC item (UXO) record recovered in 1999 for this Unit ([Table 4](#) and [Figure 4](#)). The item found in 1999 was discovered during operations under USA Environmental Inc. and is documented in *Final 100% Grid Sampling After Action Report Inland Range Contract Former Fort Ord, California Site OE-53 (BLM)* (USA Environmental Inc., 2001). [Table 1](#) provides a

summary of MD as well as Range-Related Debris (RRD) and Other Debris (OD) removed as part of the RA. [Figure 5](#) shows MD weights per remedial work grid.

Table 3. Unit B-3W MEC Items Recovered During Remedial Action

Description	DMM Qty	UXO Qty
Cartridge, 40mm, practice, M781	1	--
Flare, surface, trip, M49 series	2	5
Fuze, grenade, hand, M206 series	--	1
Fuze, grenade, hand, practice, M205 series	--	1
Fuze, grenade, hand, practice, M228	1	5
Grenade, hand, riot, CS, M7A3	--	1
Grenade, rifle, smoke, M23 series	7	--
Projectile, 37mm, low explosive, MK I	--	7
Projectile, 37mm, low explosive, MK II	--	1
Projectile, 60mm, mortar, high explosive, M49 series	--	2
Signal, illumination, ground, M125 series	--	1
Signal, illumination, ground, white star cluster, M18A1	1	--
<b>Total Items Recovered</b>	<b>12</b>	<b>25</b>

Note: This is a summary table of the information in [Appendix F](#).

Table 4. Unit B-3W MEC Items Recovered Prior to Remedial Action

Date Found	Item Type	Qty	Description	Depth
10/9/1985	ISD	1	Simulator, flash artillery, M110	0 inch
9/17/1998	UXO	1	Projectile, 37mm, low explosive, MK I	1 inch

ISD: Insufficient Data<sup>1</sup>

<sup>1</sup> Based on the review of the database, if sufficient data is unavailable in the historical record to definitively confirm an item as explosive (MEC) or inert (MD), it is categorized as ISD. ISD items are conservatively considered as MEC in the Fort Ord Military Munitions Response Program.

### ***3.0 Field Work Variance(s)***

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During execution of field work, unforeseen circumstances or events may arise that require modification to field work procedures. Field Work Variances (FWVs) document these modifications. The RAs in Unit B-3W did not require FWVs to the BLM Area B SSWP (KEMRON, 2017b).

### ***4.0 Observations of Evidence of Potential Soil Contamination***

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During field operations, UXO field personnel noted no features or items that might indicate potential soil contamination such as small arms training (e.g., mounds, berms, structures, concentrations of expended bullets, concentrations of other munitions-related items).

### ***5.0 Subsurface MEC Remediation***

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The BLM Area B SSWP (KEMRON, 2017b) indicated that subsurface MEC removal would occur in portions of BLM Area B to address the risk associated with specific reuse, such as proposed or existing roads, fuel breaks, proposed or existing trails in the BLM trail network, and future habitat restoration sites. A proposed trail within Unit B-3W was identified in the BLM Area B SSWP (KEMRON, 2017b) for subsurface MEC removal. The Army and BLM adjusted the subsurface removal footprints ([Figure 7](#)) based on a joint inspection ([Appendix A](#)). These modifications are further described in [Section 5.1](#).

Other than identified in [Figure 7](#), no additional subsurface MEC remediation is recommended in B-3W. This recommendation is based on evaluation of the following: (a) the types and amounts of MEC recovered during technology-aided surface MEC removal; (b) DGM survey results; and (c) reasonably anticipated or known reuse activities that will occur.

## 5.1 Trails

The BLM Area B SSWP (KEMRON, 2017b) identified a proposed trail within Unit B-3W. In July 2018, a joint inspection by the Army and BLM occurred (Appendix A). The Army will complete a 12-foot wide subsurface MEC removal to depth within the proposed trail alignment (Figure 7- orange portion).

A portion of the new trail alignment passes through an area with a dense stand of trees that were inaccessible to DGM. Analog instruments will be used to conduct subsurface removal in the portion of the trails where DGM data is not available.

## 5.2 Other Areas

BLM requested a 100-foot wide buffer along the northwestern boundary of the unit, similar to the Impact Area Munitions Response Area (MRA) where subsurface removal is conducted in a 100-foot wide area along habitat-development border to support future reuse. Based on the rationale of the Impact Area MRA 100-foot buffer, and because property contiguous to BLM Area B Unit B-3W is a designated development parcel, the Army agreed to conduct subsurface MEC removal to depth along a 100-foot buffer on the northwestern boundary of Unit B-3W (Figure 7 – yellow). At the request of BLM, the Army will remove the two wood latrines, wood canopy, and concrete pad located within B-3W (Figure 7- pink).

## 6.0 Recommendation & Conclusion

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Surface MEC removal (Figure 3) and DGM survey (Figure 6) are complete within Unit B-3W. Based on an evaluation of work completed to date, no additional subsurface MEC removal beyond the areas identified on Figure 7 is recommended. The Remedial Action Report will document all RAs conducted.

## 7.0 References

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KEMRON Environmental Services, Inc. (KEMRON), 2016. *Final Quality Assurance Project Plan Former Fort Ord, California Volume II Appendix A Munitions and Explosives of Concern Remedial Action* (Administrative Record [AR]# OE-0884A)

KEMRON, 2017a. *Final Work Plan Remedial Design (RD)/Remedial Action (RA) Track 2 Bureau of Land Management Area B and Munitions Response Site 16 Former Fort Ord, California* (AR# OE-0899B)

KEMRON, 2017b. *Final Site-Specific Work Plan Munitions and Explosives of Concern Remedial Action BLM Area B Former Fort Ord, California* (AR# OE-0900B)

United States Army Corps of Engineers (USACE), 1997. *Installation-wide Multispecies Habitat Management Plan for Former Fort Ord, California* (AR# BW-1787)

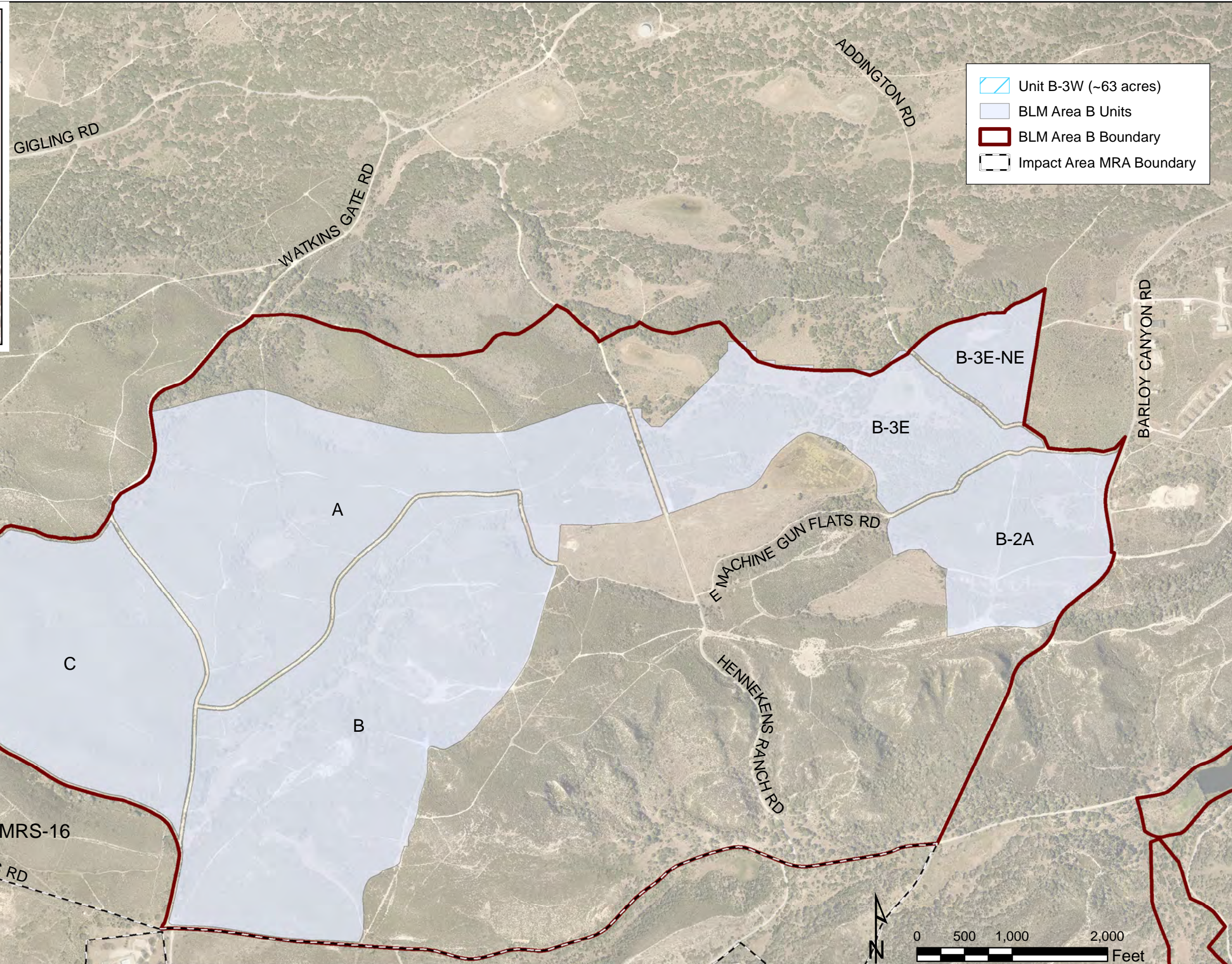
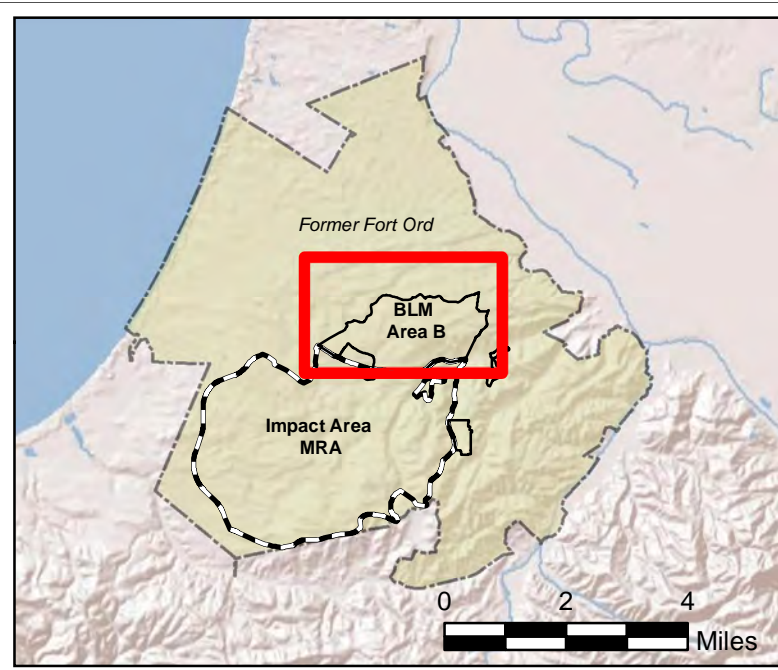
The United States Department of the Army (Army), 2017. *Final Record of Decision Track 2 Bureau of Land Management Area B and Munitions Response Site 16 Former Fort Ord, California* (AR# OE-0897)

USA Environmental, Inc., 2001. *Final 100% Grid Sampling After Action Report Inland Range Contract Former Fort Ord, California Site OE-53 (BLM)* (AR# OE-0324)



## *Figures*

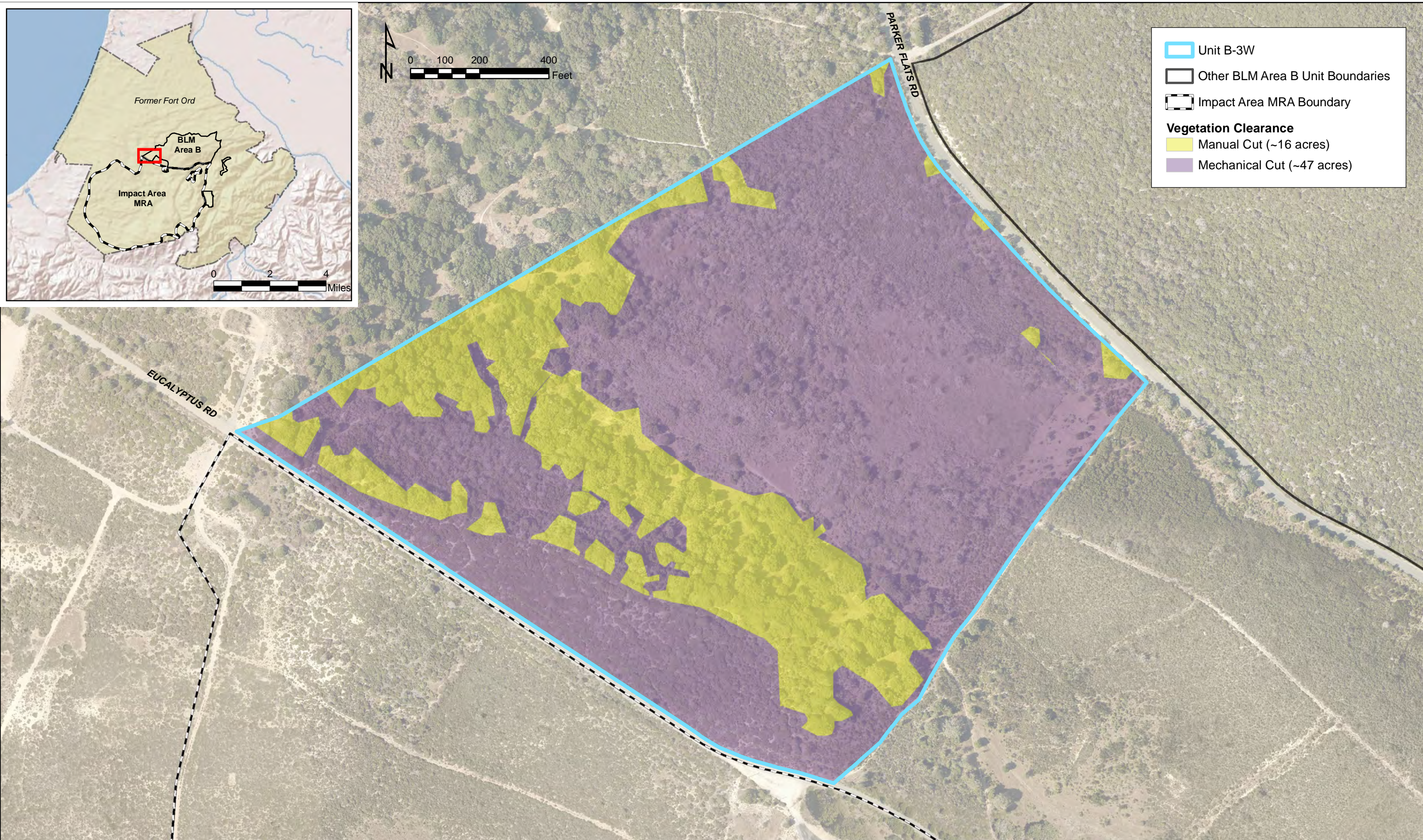




BLM Area B - Unit B-3W  
 MEC Remedial Action Technical Memorandum  
 BLM Area B  
 Former Fort Ord, California

**Figure 1**  
 Location





- Unit B-3W
- Other BLM Area B Unit Boundaries
- Impact Area MRA Boundary

**Vegetation Clearance**

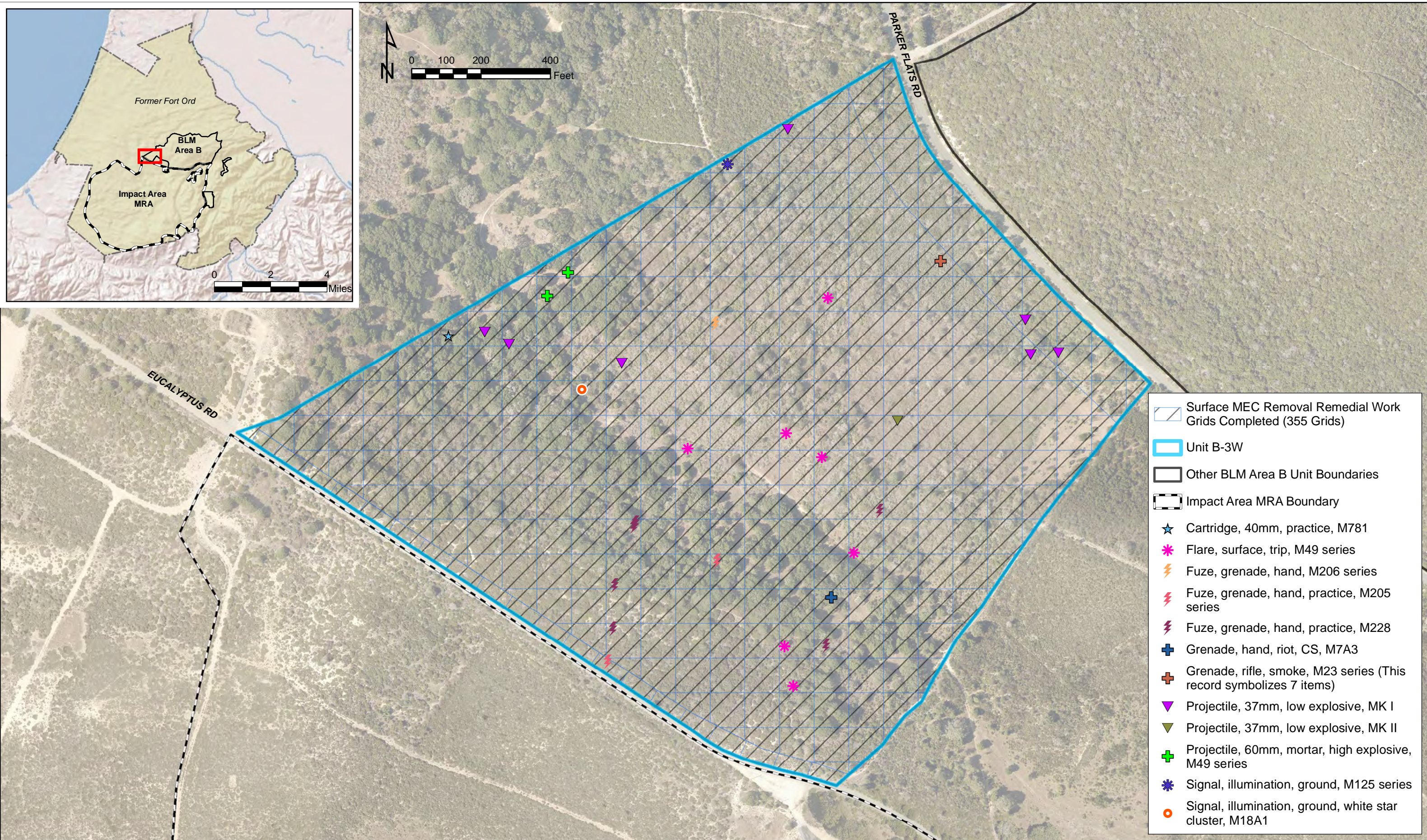
- Manual Cut (~16 acres)
- Mechanical Cut (~47 acres)

BLM Area B - Unit B-3W  
 MEC Remedial Action Technical Memorandum  
 BLM Area B  
 Former Fort Ord, California

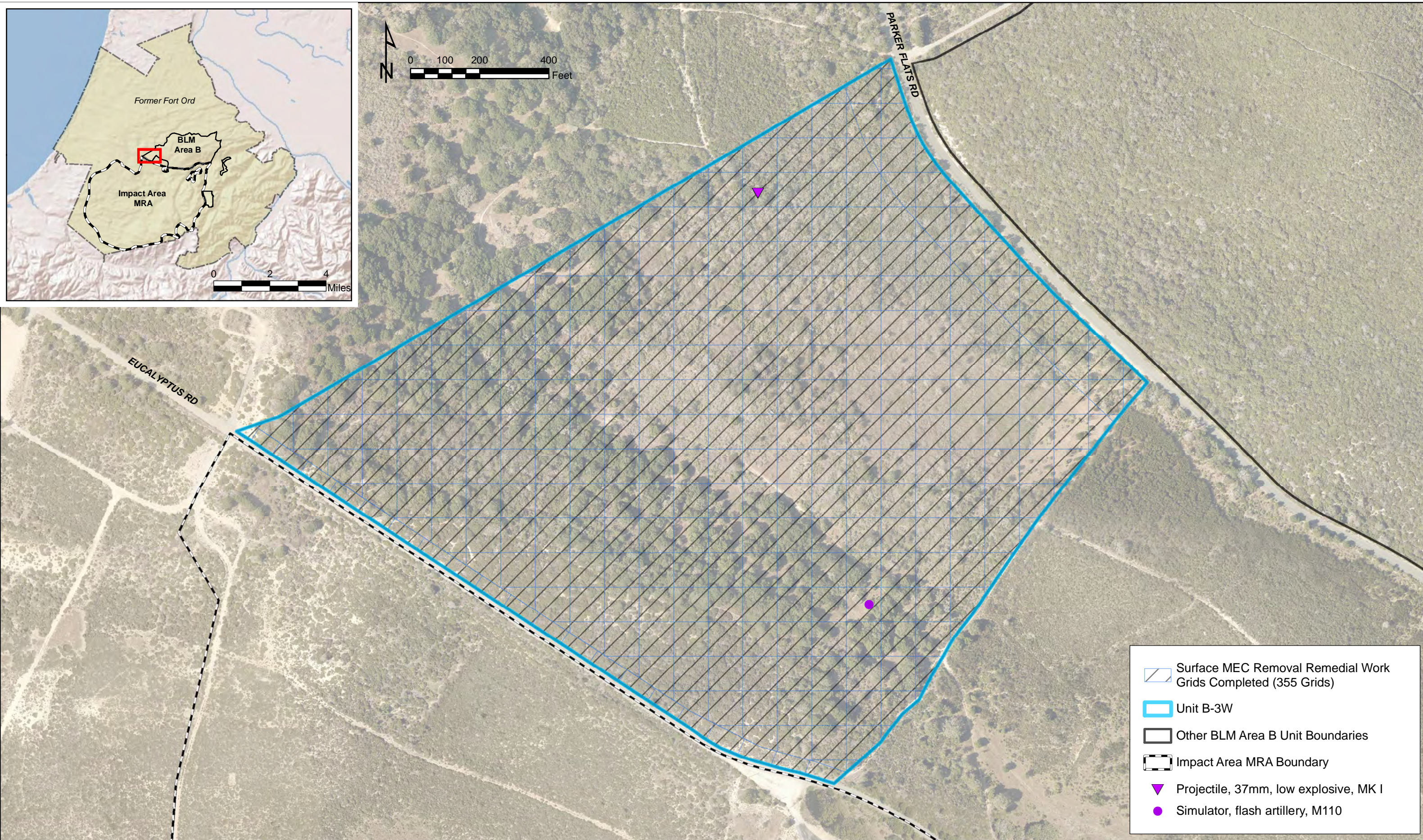
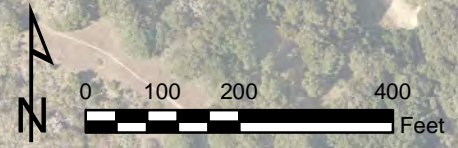
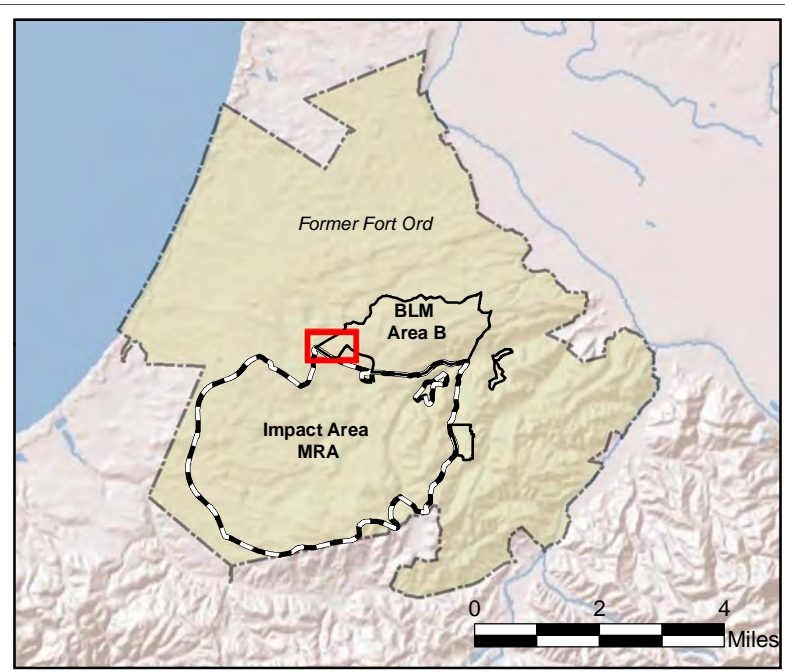
**Figure 2**  
 Unit B-3W Vegetation Clearance











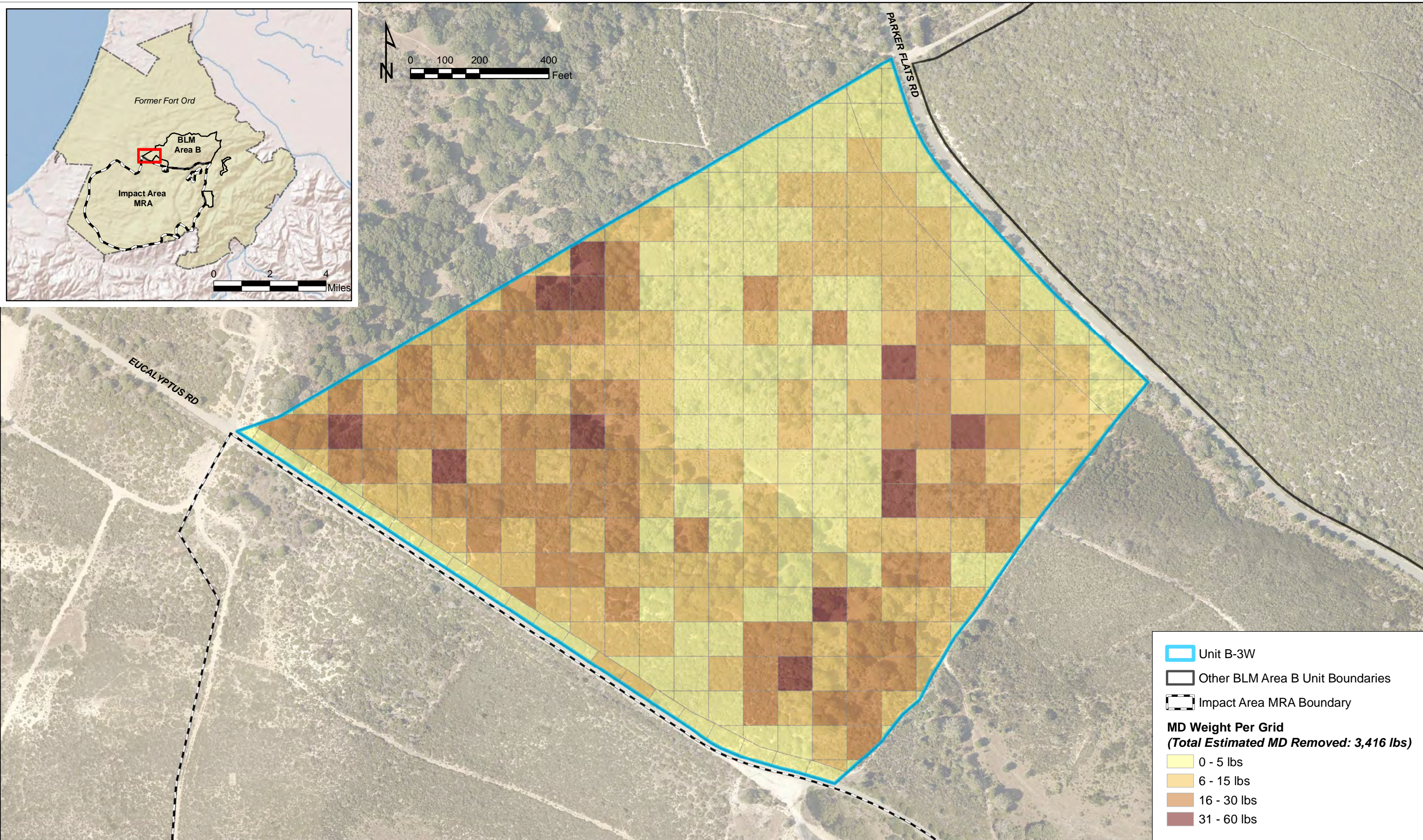
- Surface MEC Removal Remedial Work Grids Completed (355 Grids)
- Unit B-3W
- Other BLM Area B Unit Boundaries
- Impact Area MRA Boundary
- Projectile, 37mm, low explosive, MK I
- Simulator, flash artillery, M110

BLM Area B - Unit B-3W  
 MEC Remedial Action Technical Memorandum  
 BLM Area B  
 Former Fort Ord, California

**Figure 4**  
 MEC Items Removed Prior to Remedial Action







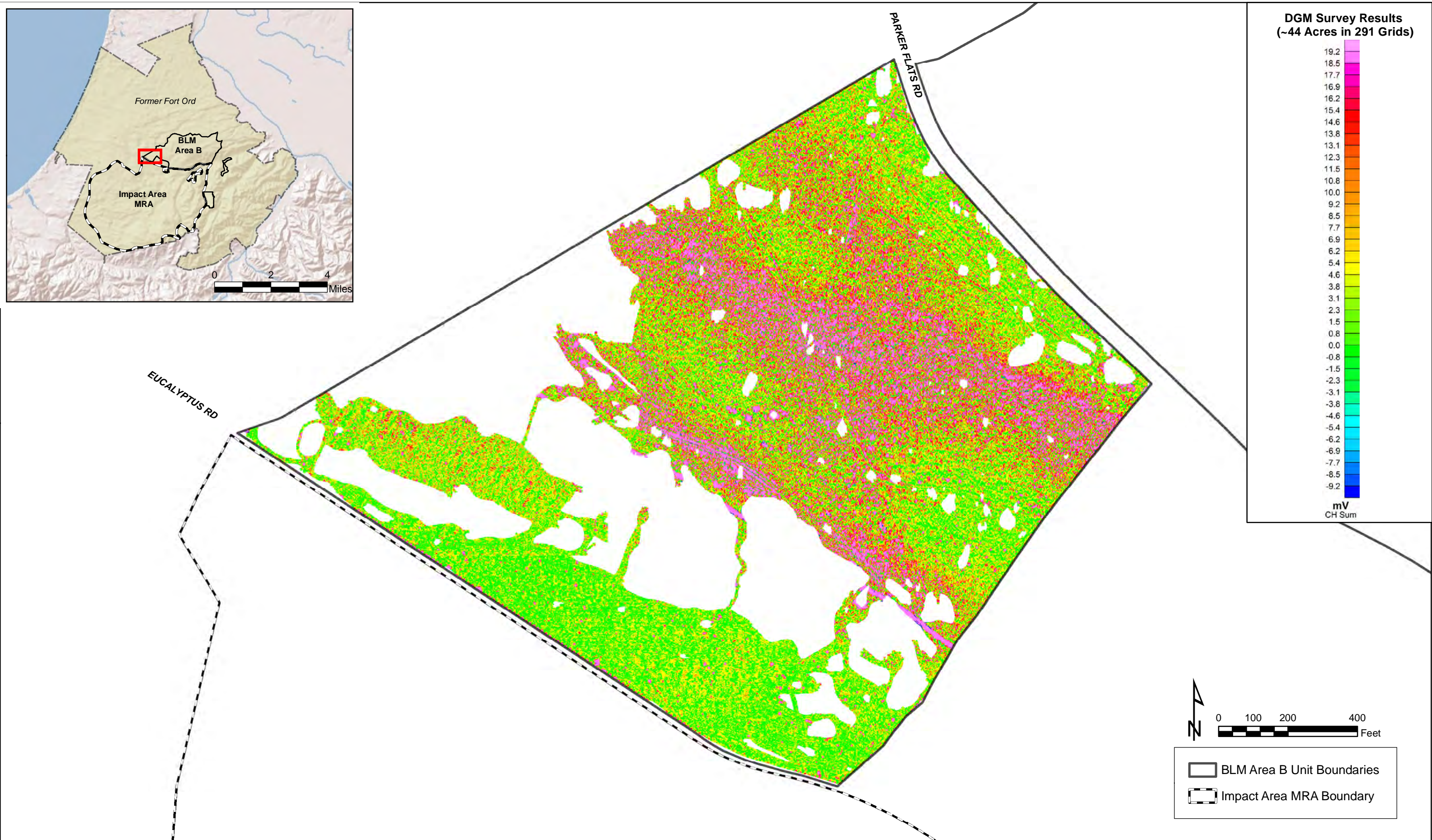
BLM Area B - Unit B-3W  
 MEC Remedial Action Technical Memorandum  
 BLM Area B  
 Former Fort Ord, California

- Unit B-3W
  - Other BLM Area B Unit Boundaries
  - Impact Area MRA Boundary
- MD Weight Per Grid**  
*(Total Estimated MD Removed: 3,416 lbs)*
- 0 - 5 lbs
  - 6 - 15 lbs
  - 16 - 30 lbs
  - 31 - 60 lbs

**Figure 5**  
 Munitions Debris Weight per Grid





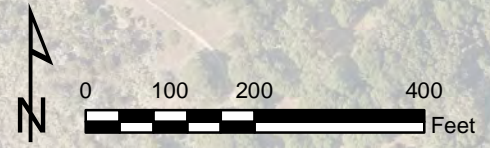
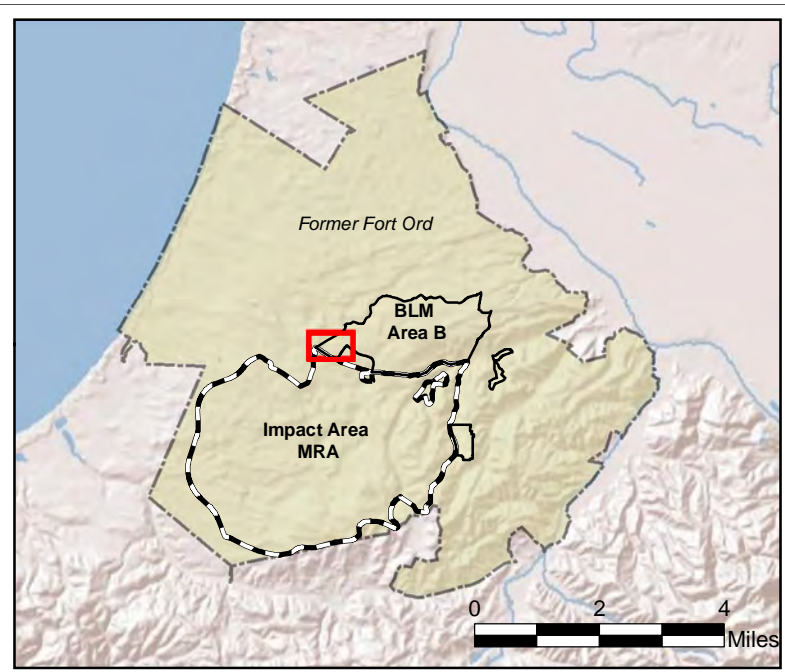







BLM Area B - Unit B-3W  
 MEC Remedial Action Technical Memorandum  
 BLM Area B  
 Former Fort Ord, California

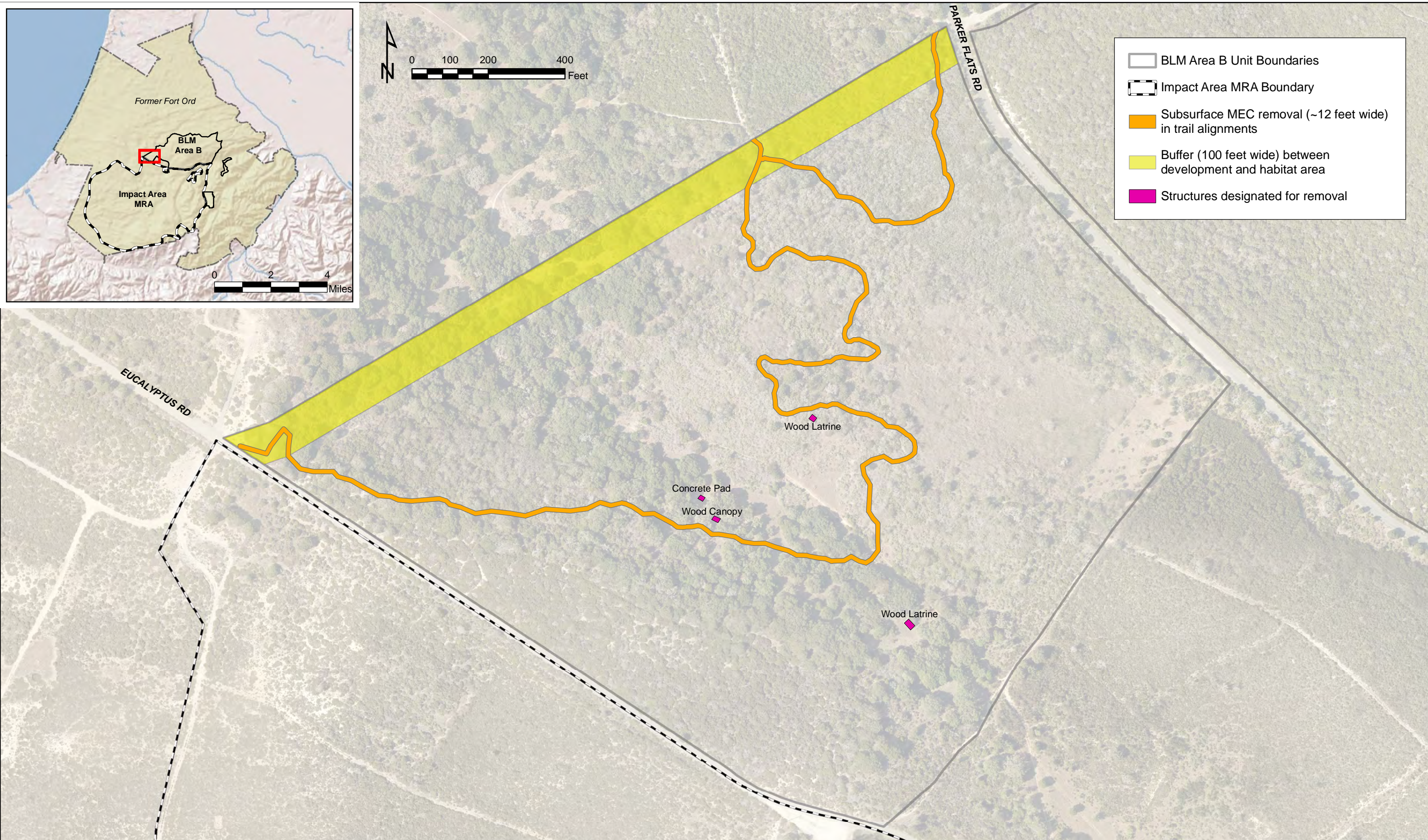
**Figure 6**  
 DGM Survey Results







-  BLM Area B Unit Boundaries
-  Impact Area MRA Boundary
-  Subsurface MEC removal (~12 feet wide) in trail alignments
-  Buffer (100 feet wide) between development and habitat area
-  Structures designated for removal



BLM Area B - Unit B-3W  
 MEC Remedial Action Technical Memorandum  
 BLM Area B  
 Former Fort Ord, California

**Figure 7**  
 Planned Subsurface MEC Removal  
 & Structures for Removal





*Appendix A*

*Army-BLM Joint Inspection Summary*

## Remediation Inspection Summary

**Subject:** Joint Remediation Inspection by the Army and Bureau of Land Management (BLM) of BLM Area B Remedial Work Area (RWA) B-3W

**Area of Inspection:** Unit B-3W

**Date:** 26 July 2018

**Attendees:** Eric Morgan, BLM; Dave Eisen - Project Manager, United States Army Corps of Engineers (USACE); Curtis Payton – Project Manager, USACE; Natalie Gordon, Military Munitions Program Manager, Chenega Support Services, Fort Ord Base Realignment and Closure (BRAC)

### References:

1. *Final Site-Specific Work Plan, Munitions and Explosives of Concern Remedial Action BLM Area B, Former Fort Ord, CA (KEMRON, 2017)(AR#OE-0900B).*
2. *Final Record of Decision (ROD), Track 2, Bureau of Land Management Area B and Munitions Response Site 16, Former Fort Ord, California (United States Department of the Army [Army], 2017)(AR#OE-0897).*
3. *Final Record of Decision (ROD), Impact Area Munitions Response Area, Track 3 Munitions Response Site, Former Fort Ord, California (United States Department of the Army [Army], 2008)(AR#OE-0647).*

**Background:** The Army conducted surface munitions and explosives of concern (MEC) removal and digital geophysical mapping (DGM) in Unit B-3W (see Figure 1). An inspection by the Army along with BLM of the completed MEC removal actions was conducted. The extent of subsurface MEC removal required to support BLM's proposed trail network and erosion restoration work were discussed. It is the Army's responsibility to conduct remedial actions that prepare the property for BLM's safe management and use. The Army will provide MEC removal and/or construction support for BLM's future ground-disturbing activities as jointly agreed upon. The inspection examined existing and proposed trail alignments and areas of erosion concern that could require subsurface MEC removal action based on BLM's planned use. Retained and proposed trails will have a subsurface MEC removal (to-depth) at a minimum width of 12 feet as identified on Figure 1.

**Objective:** A site visit and evaluation of potential subsurface MEC removal along a proposed new trail alignment and areas of erosion concern were conducted on 26 July 2018. This summary documents that site visit and evaluation. The joint remediation inspection provided an on-site assessment of Unit B-3W, which is

bounded by Eucalyptus Road to the southwest, MRS-16 to the southeast, and Parker Flats Road to the northeast. The northwest boundary of Unit B-3W, which forms the western boundary of the Fort Ord National Monument and the limit of federal property, does not coincide with any roads or trails. The inspection included a visual assessment of the area along the unit perimeter and from an old road trace within the unit. The visual assessment involved a discussion of the actions necessary to attain MEC safety conditions suitable for the construction of a new trail.

## **Field Discussion**

*Unit-specific issues identified during the joint remediation inspection.*

### 1. Proposed new trail:

BLM plans to build a new trail that extends from the southwest corner of the unit at Eucalyptus Road eastward and then northward to Parker Flats Road (Figure 1). This new trail incorporates switchbacks to maintain a downslope grade of <7% to minimize the potential for future erosion. The trail would require a 12-foot wide subsurface MEC removal to depth.

### 2. Old road trace:

There is an old road that enters the unit from the southeast and extends approximate 2/3 of the way into the unit in a westerly direction. This road is planned for abandonment. It is believed that the road will naturally attenuate; however, there is some possibility for future erosion depending on the rate of vegetation regrowth. BLM would like the opportunity to discuss future erosion control methods and the level of construction support that may be required to support near-term erosion repair projects. Following property transfer, BLM projects will be governed by the Land Use Control Implementation Plan (LUCIP) for that property.

### 3. Abandoned structures:

There is an abandoned latrine in the middle of the unit and a covered training area approximately 600 feet due west of the latrine (Figure 1). Both structures are designated for removal by the Army.

### 4. 100-foot buffer:

BLM requested a 100-foot wide buffer similar to the Impact Area MRA. Under the Track 3 ROD (Army, 2008), subsurface removal is conducted along the habitat-development border to support future reuse. Based on the rationale of the Impact Area 100-foot buffer, and because property contiguous to BLM Area B Unit B-3W is a designated development parcel, the Army agreed to conduct subsurface MEC removal to depth along a 100-foot buffer on the western edge of Unit B-3W.

5. There is an approximately 15' x 15' concrete pad in the south central portion of Unit B-3W which BLM would like to have removed. Removal of this feature will be conducted based on its potential to attract off-trail excursions by recreational users.
6. A charged water line believed to be owned by Marina Coast Water District does pass through the unit. BLM will be responsible for coordinating the closure/removal of that line, if desired.

Subsurface MEC removal associated with Eucalyptus and Parker Flats Roads will be completed as part of the fuel break subsurface MEC removal work.

*General issues identified during the joint remediation inspection.*

1. Trail delineation:
  - a. BLM is concerned that during new trail construction, they may disturb the subsurface to points wider than the previously defined 12 feet. It is believed that this disturbance would be solely for blending purposes and would generally be at depths of 6 inches or less. Further discussion to address this issue across the entirety of BLM Area B is in progress.
  - b. It may be useful to delineate the edges of the 12-foot subsurface MEC removal for long-term use, including future maintenance and ground disturbing activities. Alternatives to physical markers will be considered.

**Post-Joint Remediation Inspection Discussion**

*from 13 Sept. 2018*

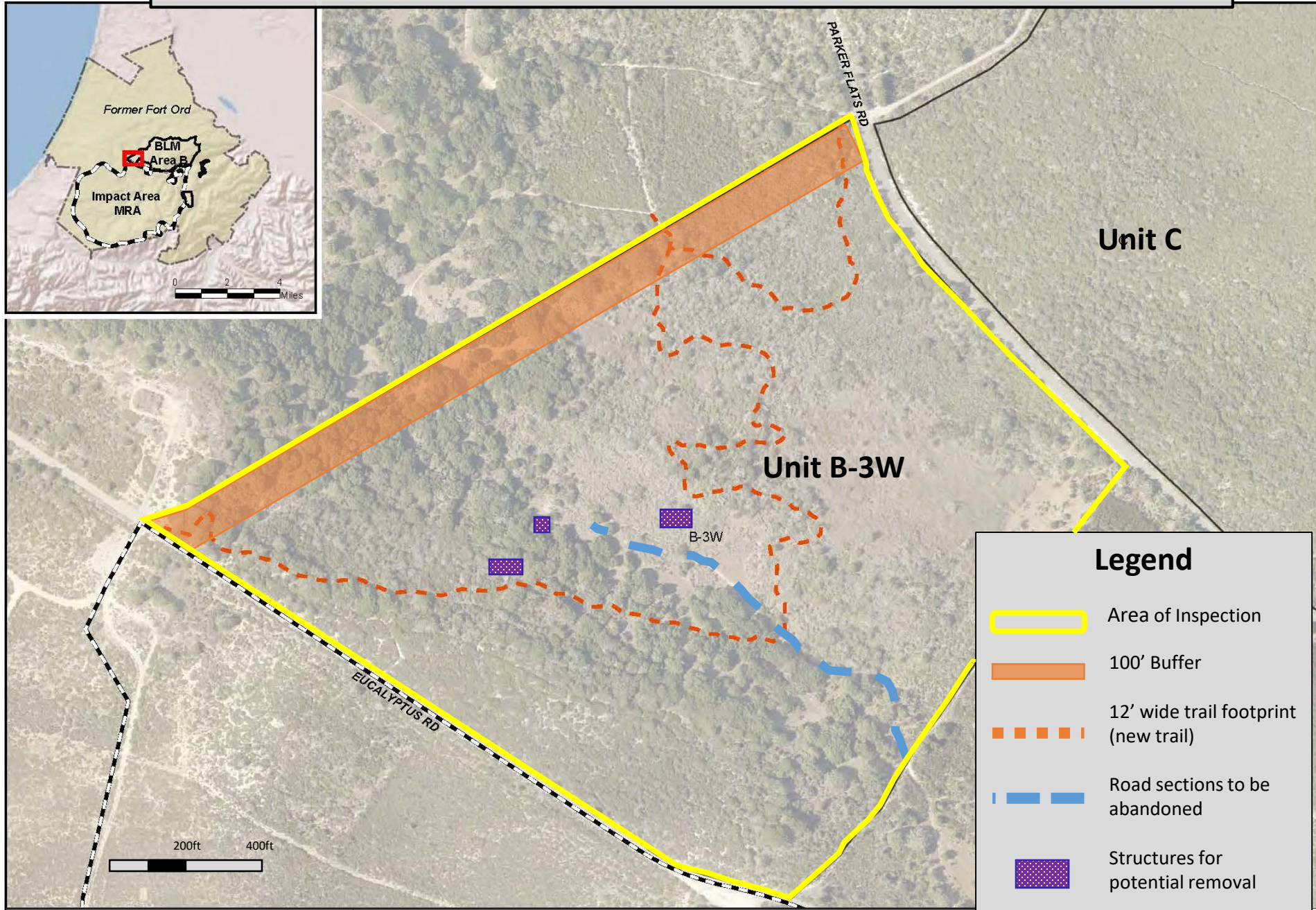
Based on additional discussion between the Army and BLM on new trail construction and General Issue 1a described above, BLM identified a concern that, due to limited initial trail planning, actual construction of some of the new recreational trails could require in-the-field engineering adjustments. These adjustments may result in subsurface disturbance outside of the 12-foot wide zone of subsurface MEC removal that will have been completed. The final trail alignment completed by BLM may, in rare cases, extend outside the 12-foot subsurface removal footprint, which will be staked by KEMRON.

To mitigate this possibility, the option of evaluating and selecting digital geophysical mapping (DGM) anomalies in a wider trail footprint such as 20 feet (10 feet on each side of the trail centerline, where practicable) was discussed. Trail staking and subsurface removal in the new trail in Unit B-3W will be performed at the original width of 12 feet as planned. The additional information

presenting anomalies where practicable (i.e. where DGM data exists) will facilitate an easier process for determining the level of construction support in the event trail construction widths exceed the 12 feet.

This joint remediation inspection summary is intended to document BLM plans for ground-disturbing activities and additional subsurface MEC removal to support their intended future use. The joint remediation inspection summary is to be used to guide discussion only. All final decisions and the actual work conducted will be documented in a Remedial Action Report. The figure is for illustration purposes only and is not to scale.

**Figure 1: Unit B-3W Proposed Work**



***Appendix B***

***Surface MEC Removal QC Results***

Operation ID	Grid ID	Acreage	QC Complete	QC Objectives Met
Eucalyptus Road	B3W01	0.03	Yes	Yes
Eucalyptus Road	B3W02	0.07	Yes	Yes
Eucalyptus Road	B3W03	0.09	Yes	Yes
Eucalyptus Road	B3W04	0.09	Yes	Yes
Eucalyptus Road	B3W05	0.09	Yes	Yes
Eucalyptus Road	B3W06	0.09	Yes	Yes
Eucalyptus Road	B3W07	0.09	Yes	Yes
Eucalyptus Road	B3W08	0.09	Yes	Yes
Eucalyptus Road	B3W09	0.09	Yes	Yes
Eucalyptus Road	B3W10	0.09	Yes	Yes
Eucalyptus Road	B3W11	0.09	Yes	Yes
Eucalyptus Road	B3W12	0.09	Yes	Yes
Eucalyptus Road	B3W13	0.09	Yes	Yes
Eucalyptus Road	B3W14	0.09	Yes	Yes
Eucalyptus Road	B3W15	0.09	Yes	Yes
Eucalyptus Road	B3W16	0.09	Yes	Yes
Eucalyptus Road	B3W17	0.1	Yes	Yes
Eucalyptus Road	B3W18	0.12	Yes	Yes
Eucalyptus Road	B3W19	0.11	Yes	Yes
Eucalyptus Road	B3W20	0.1	Yes	Yes
Eucalyptus Road	B3W21	0.1	Yes	Yes
B-3W	C2A0F0	0.07	Yes	Yes
B-3W	C2A0G0	0.23	Yes	Yes
B-3W	C2A0G8	0.02	Yes	Yes
B-3W	C2A0G9	0.15	Yes	Yes
B-3W	C2A0H0	0.23	Yes	Yes
B-3W	C2A0H6	<0.01	Yes	Yes
B-3W	C2A0H7	0.08	Yes	Yes
B-3W	C2A0H8	0.21	Yes	Yes
B-3W	C2A0H9	0.23	Yes	Yes
B-3W	C2A0I0	0.23	Yes	Yes
B-3W	C2A0I5	0.02	Yes	Yes
B-3W	C2A0I6	0.16	Yes	Yes
B-3W	C2A0I7	0.23	Yes	Yes
B-3W	C2A0I8	0.23	Yes	Yes
B-3W	C2A0I9	0.23	Yes	Yes
B-3W	C2A0J0	0.23	Yes	Yes
B-3W	C2A0J3	<0.01	Yes	Yes
B-3W	C2A0J4	0.09	Yes	Yes
B-3W	C2A0J5	0.22	Yes	Yes



Operation ID	Grid ID	Acreage	QC Complete	QC Objectives Met
B-3W	C2A0J6	0.23	Yes	Yes
B-3W	C2A0J7	0.23	Yes	Yes
B-3W	C2A0J8	0.23	Yes	Yes
B-3W	C2A0J9	0.23	Yes	Yes
B-3W	C2B0A0	0.23	Yes	Yes
B-3W	C2B0A2	0.03	Yes	Yes
B-3W	C2B0A3	0.17	Yes	Yes
B-3W	C2B0A4	0.23	Yes	Yes
B-3W	C2B0A5	0.23	Yes	Yes
B-3W	C2B0A6	0.23	Yes	Yes
B-3W	C2B0A7	0.23	Yes	Yes
B-3W	C2B0A8	0.23	Yes	Yes
B-3W	C2B0A9	0.23	Yes	Yes
B-3W	C2B0B0	0.23	Yes	Yes
B-3W	C2B0B1	0.09	Yes	Yes
B-3W	C2B0B2	0.22	Yes	Yes
B-3W	C2B0B3	0.23	Yes	Yes
B-3W	C2B0B4	0.23	Yes	Yes
B-3W	C2B0B5	0.23	Yes	Yes
B-3W	C2B0B6	0.23	Yes	Yes
B-3W	C2B0B7	0.23	Yes	Yes
B-3W	C2B0B8	0.23	Yes	Yes
B-3W	C2B0B9	0.23	Yes	Yes
B-3W	C2B0C0	0.23	Yes	Yes
B-3W	C2B0C1	0.23	Yes	Yes
B-3W	C2B0C2	0.23	Yes	Yes
B-3W	C2B0C3	0.23	Yes	Yes
B-3W	C2B0C4	0.23	Yes	Yes
B-3W	C2B0C5	0.23	Yes	Yes
B-3W	C2B0C6	0.23	Yes	Yes
B-3W	C2B0C7	0.23	Yes	Yes
B-3W	C2B0C8	0.23	Yes	Yes
B-3W	C2B0C9	0.23	Yes	Yes
B-3W	C2B0D0	0.23	Yes	Yes
B-3W	C2B0D1	0.11	Yes	Yes
B-3W	C2B0D2	0.22	Yes	Yes
B-3W	C2B0D3	0.23	Yes	Yes
B-3W	C2B0D4	0.23	Yes	Yes
B-3W	C2B0D5	0.23	Yes	Yes
B-3W	C2B0D6	0.23	Yes	Yes

Operation ID	Grid ID	Acreage	QC Complete	QC Objectives Met
B-3W	C2B0D7	0.23	Yes	Yes
B-3W	C2B0D8	0.23	Yes	Yes
B-3W	C2B0D9	0.23	Yes	Yes
B-3W	C2B0E0	0.23	Yes	Yes
B-3W	C2B0E2	0.02	Yes	Yes
B-3W	C2B0E3	0.15	Yes	Yes
B-3W	C2B0E4	0.23	Yes	Yes
B-3W	C2B0E5	0.23	Yes	Yes
B-3W	C2B0E6	0.23	Yes	Yes
B-3W	C2B0E7	0.23	Yes	Yes
B-3W	C2B0E8	0.23	Yes	Yes
B-3W	C2B0E9	0.23	Yes	Yes
B-3W	C2B0F0	0.23	Yes	Yes
B-3W	C2B0F4	0.05	Yes	Yes
B-3W	C2B0F5	0.18	Yes	Yes
B-3W	C2B0F6	0.23	Yes	Yes
B-3W	C2B0F7	0.23	Yes	Yes
B-3W	C2B0F8	0.23	Yes	Yes
B-3W	C2B0F9	0.23	Yes	Yes
B-3W	C2B0G0	0.23	Yes	Yes
B-3W	C2B0G5	<0.01	Yes	Yes
B-3W	C2B0G6	0.09	Yes	Yes
B-3W	C2B0G7	0.21	Yes	Yes
B-3W	C2B0G8	0.23	Yes	Yes
B-3W	C2B0G9	0.23	Yes	Yes
B-3W	C2B0H0	0.23	Yes	Yes
B-3W	C2B0H7	0.01	Yes	Yes
B-3W	C2B0H8	0.13	Yes	Yes
B-3W	C2B0H9	0.23	Yes	Yes
B-3W	C2B0I0	0.16	Yes	Yes
B-3W	C2B0I9	0.04	Yes	Yes
B-3W	C2B9B0	<0.01	Yes	Yes
B-3W	C2B9C0	0.15	Yes	Yes
B-3W	C2B9C9	<0.01	Yes	Yes
B-3W	C2B9D0	0.01	Yes	Yes
B-3W	C3A1C5	<0.01	Yes	Yes
B-3W	C3A1C6	0.04	Yes	Yes
B-3W	C3A1C7	0.02	Yes	Yes
B-3W	C3A1D3	0.03	Yes	Yes
B-3W	C3A1D4	0.13	Yes	Yes

Operation ID	Grid ID	Acreage	QC Complete	QC Objectives Met
B-3W	C3A1D5	0.2	Yes	Yes
B-3W	C3A1D6	0.23	Yes	Yes
B-3W	C3A1D7	0.19	Yes	Yes
B-3W	C3A1D8	0.02	Yes	Yes
B-3W	C3A1E1	0.01	Yes	Yes
B-3W	C3A1E2	0.13	Yes	Yes
B-3W	C3A1E3	0.22	Yes	Yes
B-3W	C3A1E4	0.23	Yes	Yes
B-3W	C3A1E5	0.23	Yes	Yes
B-3W	C3A1E6	0.23	Yes	Yes
B-3W	C3A1E7	0.23	Yes	Yes
B-3W	C3A1E8	0.17	Yes	Yes
B-3W	C3A1E9	0.01	Yes	Yes
B-3W	C3A1F1	0.2	Yes	Yes
B-3W	C3A1F2	0.23	Yes	Yes
B-3W	C3A1F3	0.23	Yes	Yes
B-3W	C3A1F4	0.23	Yes	Yes
B-3W	C3A1F5	0.23	Yes	Yes
B-3W	C3A1F6	0.23	Yes	Yes
B-3W	C3A1F7	0.23	Yes	Yes
B-3W	C3A1F8	0.23	Yes	Yes
B-3W	C3A1F9	0.11	Yes	Yes
B-3W	C3A1G0	0.03	Yes	Yes
B-3W	C3A1G1	0.23	Yes	Yes
B-3W	C3A1G2	0.23	Yes	Yes
B-3W	C3A1G3	0.23	Yes	Yes
B-3W	C3A1G4	0.23	Yes	Yes
B-3W	C3A1G5	0.23	Yes	Yes
B-3W	C3A1G6	0.23	Yes	Yes
B-3W	C3A1G7	0.23	Yes	Yes
B-3W	C3A1G8	0.23	Yes	Yes
B-3W	C3A1G9	0.22	Yes	Yes
B-3W	C3A1H0	0.18	Yes	Yes
B-3W	C3A1H1	0.23	Yes	Yes
B-3W	C3A1H2	0.23	Yes	Yes
B-3W	C3A1H3	0.23	Yes	Yes
B-3W	C3A1H4	0.23	Yes	Yes
B-3W	C3A1H5	0.23	Yes	Yes
B-3W	C3A1H6	0.23	Yes	Yes
B-3W	C3A1H7	0.23	Yes	Yes

Operation ID	Grid ID	Acreage	QC Complete	QC Objectives Met
B-3W	C3A1H8	0.23	Yes	Yes
B-3W	C3A1H9	0.23	Yes	Yes
B-3W	C3A1I0	0.23	Yes	Yes
B-3W	C3A1I1	0.23	Yes	Yes
B-3W	C3A1I2	0.23	Yes	Yes
B-3W	C3A1I3	0.23	Yes	Yes
B-3W	C3A1I4	0.23	Yes	Yes
B-3W	C3A1I5	0.23	Yes	Yes
B-3W	C3A1I6	0.23	Yes	Yes
B-3W	C3A1I7	0.23	Yes	Yes
B-3W	C3A1I8	0.23	Yes	Yes
B-3W	C3A1I9	0.23	Yes	Yes
B-3W	C3A1J0	0.23	Yes	Yes
B-3W	C3A1J1	0.23	Yes	Yes
B-3W	C3A1J2	0.23	Yes	Yes
B-3W	C3A1J3	0.23	Yes	Yes
B-3W	C3A1J4	0.23	Yes	Yes
B-3W	C3A1J5	0.23	Yes	Yes
B-3W	C3A1J6	0.23	Yes	Yes
B-3W	C3A1J7	0.23	Yes	Yes
B-3W	C3A1J8	0.23	Yes	Yes
B-3W	C3A1J9	0.23	Yes	Yes
B-3W	C3A2H1	<0.01	Yes	Yes
B-3W	C3A2I1	0.12	Yes	Yes
B-3W	C3A2J1	0.23	Yes	Yes
B-3W	C3A2J2	0.05	Yes	Yes
B-3W	C3B1A0	0.23	Yes	Yes
B-3W	C3B1A1	0.23	Yes	Yes
B-3W	C3B1A2	0.23	Yes	Yes
B-3W	C3B1A3	0.23	Yes	Yes
B-3W	C3B1A4	0.23	Yes	Yes
B-3W	C3B1A5	0.23	Yes	Yes
B-3W	C3B1A6	0.23	Yes	Yes
B-3W	C3B1A7	0.23	Yes	Yes
B-3W	C3B1A8	0.23	Yes	Yes
B-3W	C3B1A9	0.23	Yes	Yes
B-3W	C3B1B0	0.23	Yes	Yes
B-3W	C3B1B1	0.23	Yes	Yes
B-3W	C3B1B2	0.23	Yes	Yes
B-3W	C3B1B3	0.23	Yes	Yes

Operation ID	Grid ID	Acreage	QC Complete	QC Objectives Met
B-3W	C3B1B4	0.23	Yes	Yes
B-3W	C3B1B5	0.23	Yes	Yes
B-3W	C3B1B6	0.23	Yes	Yes
B-3W	C3B1B7	0.23	Yes	Yes
B-3W	C3B1B8	0.23	Yes	Yes
B-3W	C3B1B9	0.23	Yes	Yes
B-3W	C3B1C0	0.23	Yes	Yes
B-3W	C3B1C1	0.23	Yes	Yes
B-3W	C3B1C2	0.23	Yes	Yes
B-3W	C3B1C3	0.23	Yes	Yes
B-3W	C3B1C4	0.23	Yes	Yes
B-3W	C3B1C5	0.23	Yes	Yes
B-3W	C3B1C6	0.23	Yes	Yes
B-3W	C3B1C7	0.23	Yes	Yes
B-3W	C3B1C8	0.23	Yes	Yes
B-3W	C3B1C9	0.23	Yes	Yes
B-3W	C3B1D0	0.23	Yes	Yes
B-3W	C3B1D1	0.23	Yes	Yes
B-3W	C3B1D2	0.23	Yes	Yes
B-3W	C3B1D3	0.23	Yes	Yes
B-3W	C3B1D4	0.23	Yes	Yes
B-3W	C3B1D5	0.23	Yes	Yes
B-3W	C3B1D6	0.23	Yes	Yes
B-3W	C3B1D7	0.23	Yes	Yes
B-3W	C3B1D8	0.23	Yes	Yes
B-3W	C3B1D9	0.23	Yes	Yes
B-3W	C3B1E0	0.23	Yes	Yes
B-3W	C3B1E1	0.23	Yes	Yes
B-3W	C3B1E2	0.23	Yes	Yes
B-3W	C3B1E3	0.23	Yes	Yes
B-3W	C3B1E4	0.23	Yes	Yes
B-3W	C3B1E5	0.23	Yes	Yes
B-3W	C3B1E6	0.23	Yes	Yes
B-3W	C3B1E7	0.23	Yes	Yes
B-3W	C3B1E8	0.23	Yes	Yes
B-3W	C3B1E9	0.23	Yes	Yes
B-3W	C3B1F0	0.23	Yes	Yes
B-3W	C3B1F1	0.23	Yes	Yes
B-3W	C3B1F2	0.23	Yes	Yes
B-3W	C3B1F3	0.23	Yes	Yes

Operation ID	Grid ID	Acreage	QC Complete	QC Objectives Met
B-3W	C3B1F4	0.23	Yes	Yes
B-3W	C3B1F5	0.23	Yes	Yes
B-3W	C3B1F6	0.23	Yes	Yes
B-3W	C3B1F7	0.23	Yes	Yes
B-3W	C3B1F8	0.23	Yes	Yes
B-3W	C3B1F9	0.23	Yes	Yes
B-3W	C3B1G0	0.19	Yes	Yes
Parker Flats Road	C3B1G0	0.04	Yes	Yes
B-3W	C3B1G1	0.23	Yes	Yes
B-3W	C3B1G2	0.23	Yes	Yes
B-3W	C3B1G3	0.23	Yes	Yes
B-3W	C3B1G4	0.23	Yes	Yes
B-3W	C3B1G5	0.23	Yes	Yes
B-3W	C3B1G6	0.23	Yes	Yes
B-3W	C3B1G7	0.23	Yes	Yes
B-3W	C3B1G8	0.23	Yes	Yes
B-3W	C3B1G9	0.23	Yes	Yes
B-3W	C3B1H0	0.03	Yes	Yes
Parker Flats Road	C3B1H0	0.2	Yes	Yes
B-3W	C3B1H1	0.23	Yes	Yes
B-3W	C3B1H2	0.23	Yes	Yes
B-3W	C3B1H3	0.23	Yes	Yes
B-3W	C3B1H4	0.23	Yes	Yes
B-3W	C3B1H5	0.23	Yes	Yes
B-3W	C3B1H6	0.23	Yes	Yes
B-3W	C3B1H7	0.23	Yes	Yes
B-3W	C3B1H8	0.23	Yes	Yes
B-3W	C3B1H9	0.2	Yes	Yes
Parker Flats Road	C3B1H9	0.03	Yes	Yes
Parker Flats Road	C3B1I0	0.22	Yes	Yes
B-3W	C3B1I1	0.23	Yes	Yes
B-3W	C3B1I2	0.23	Yes	Yes
B-3W	C3B1I3	0.23	Yes	Yes
B-3W	C3B1I4	0.23	Yes	Yes
B-3W	C3B1I5	0.23	Yes	Yes
B-3W	C3B1I6	0.23	Yes	Yes
B-3W	C3B1I7	0.23	Yes	Yes
B-3W	C3B1I8	0.21	Yes	Yes
Parker Flats Road	C3B1I8	0.02	Yes	Yes
B-3W	C3B1I9	0.04	Yes	Yes

Operation ID	Grid ID	Acreage	QC Complete	QC Objectives Met
Parker Flats Road	C3B1I9	0.19	Yes	Yes
Parker Flats Road	C3B1J0	0.06	Yes	Yes
B-3W	C3B1J1	0.07	Yes	Yes
B-3W	C3B1J2	0.2	Yes	Yes
B-3W	C3B1J3	0.23	Yes	Yes
B-3W	C3B1J4	0.23	Yes	Yes
B-3W	C3B1J5	0.23	Yes	Yes
B-3W	C3B1J6	0.23	Yes	Yes
B-3W	C3B1J7	0.23	Yes	Yes
Parker Flats Road	C3B1J7	<0.01	Yes	Yes
B-3W	C3B1J8	0.07	Yes	Yes
Parker Flats Road	C3B1J8	0.16	Yes	Yes
Parker Flats Road	C3B1J9	0.22	Yes	Yes
B-3W	C3B2A1	0.23	Yes	Yes
B-3W	C3B2A2	0.2	Yes	Yes
B-3W	C3B2A3	0.02	Yes	Yes
B-3W	C3B2B1	0.23	Yes	Yes
B-3W	C3B2B2	0.23	Yes	Yes
B-3W	C3B2B3	0.16	Yes	Yes
B-3W	C3B2B4	<0.01	Yes	Yes
B-3W	C3B2C1	0.23	Yes	Yes
B-3W	C3B2C2	0.23	Yes	Yes
B-3W	C3B2C3	0.23	Yes	Yes
B-3W	C3B2C4	0.11	Yes	Yes
Parker Flats Road	C3B2C4	0.01	Yes	Yes
B-3W	C3B2D1	0.23	Yes	Yes
B-3W	C3B2D2	0.23	Yes	Yes
B-3W	C3B2D3	0.19	Yes	Yes
Parker Flats Road	C3B2D3	0.03	Yes	Yes
B-3W	C3B2D4	0.03	Yes	Yes
Parker Flats Road	C3B2D4	0.2	Yes	Yes
Parker Flats Road	C3B2D5	0.08	Yes	Yes
B-3W	C3B2E1	0.23	Yes	Yes
B-3W	C3B2E2	0.19	Yes	Yes
Parker Flats Road	C3B2E2	0.04	Yes	Yes
B-3W	C3B2E3	0.02	Yes	Yes
Parker Flats Road	C3B2E3	0.21	Yes	Yes
Parker Flats Road	C3B2E4	0.21	Yes	Yes
Parker Flats Road	C3B2E5	0.04	Yes	Yes
B-3W	C3B2F1	0.18	Yes	Yes

Operation ID	Grid ID	Acreeage	QC Complete	QC Objectives Met
Parker Flats Road	C3B2F1	0.05	Yes	Yes
B-3W	C3B2F2	0.02	Yes	Yes
Parker Flats Road	C3B2F2	0.21	Yes	Yes
Parker Flats Road	C3B2F3	0.2	Yes	Yes
Parker Flats Road	C3B2F4	0.03	Yes	Yes
B-3W	C3B2G1	0.02	Yes	Yes
Parker Flats Road	C3B2G1	0.21	Yes	Yes
Parker Flats Road	C3B2G2	0.2	Yes	Yes
Parker Flats Road	C3B2G3	0.03	Yes	Yes
Parker Flats Road	C3B2H1	0.21	Yes	Yes
Parker Flats Road	C3B2H2	0.03	Yes	Yes
Parker Flats Road	C3B2I1	0.04	Yes	Yes
B-3W	C3C1A2	0.01	Yes	Yes
B-3W	C3C1A3	0.11	Yes	Yes
B-3W	C3C1A4	0.22	Yes	Yes
B-3W	C3C1A5	0.23	Yes	Yes
B-3W	C3C1A6	0.23	Yes	Yes
B-3W	C3C1A7	0.16	Yes	Yes
Parker Flats Road	C3C1A7	0.07	Yes	Yes
Parker Flats Road	C3C1A8	0.23	Yes	Yes
Parker Flats Road	C3C1A9	0.1	Yes	Yes
B-3W	C3C1B4	0.03	Yes	Yes
B-3W	C3C1B5	0.15	Yes	Yes
B-3W	C3C1B6	0.23	Yes	Yes
B-3W	C3C1B7	0.06	Yes	Yes
Parker Flats Road	C3C1B7	0.17	Yes	Yes
Parker Flats Road	C3C1B8	0.2	Yes	Yes
Parker Flats Road	C3C1B9	<0.01	Yes	Yes
B-3W	C3C1C6	0.05	Yes	Yes
Parker Flats Road	C3C1C6	<0.01	Yes	Yes
B-3W	C3C1C7	<0.01	Yes	Yes
Parker Flats Road	C3C1C7	0.18	Yes	Yes
Parker Flats Road	C3C1C8	0.12	Yes	Yes
Parker Flats Road	C3C1D7	<0.01	Yes	Yes
Parker Flats Road	C3C1D8	0.01	Yes	Yes



## *Appendix C*

### *Surface MEC Removal QA Results*

Date Analog Surface Op QA Complete	Acreage	Survey Type	Operation ID	Grid ID	Analog Surface Op QA Team	Complete
10/11/2017	0.03	Analog	Eucalyptus Road	B3W01	UXO_QA_1	Yes
10/11/2017	0.07	Analog	Eucalyptus Road	B3W02	UXO_QA_1	Yes
10/11/2017	0.09	Analog	Eucalyptus Road	B3W03	UXO_QA_1	Yes
10/11/2017	0.09	Analog	Eucalyptus Road	B3W04	UXO_QA_1	Yes
10/11/2017	0.09	Analog	Eucalyptus Road	B3W05	UXO_QA_1	Yes
10/11/2017	0.09	Analog	Eucalyptus Road	B3W06	UXO_QA_1	Yes
10/11/2017	0.09	Analog	Eucalyptus Road	B3W07	UXO_QA_1	Yes
10/11/2017	0.09	Analog	Eucalyptus Road	B3W08	UXO_QA_1	Yes
10/11/2017	0.09	Analog	Eucalyptus Road	B3W09	UXO_QA_1	Yes
10/11/2017	0.09	Analog	Eucalyptus Road	B3W10	UXO_QA_1	Yes
10/11/2017	0.09	Analog	Eucalyptus Road	B3W11	UXO_QA_1	Yes
10/11/2017	0.09	Analog	Eucalyptus Road	B3W12	UXO_QA_1	Yes
10/11/2017	0.09	Analog	Eucalyptus Road	B3W13	UXO_QA_1	Yes
10/11/2017	0.09	Analog	Eucalyptus Road	B3W14	UXO_QA_1	Yes
10/11/2017	0.09	Analog	Eucalyptus Road	B3W15	UXO_QA_1	Yes
10/11/2017	0.09	Analog	Eucalyptus Road	B3W16	UXO_QA_1	Yes
10/11/2017	0.1	Analog	Eucalyptus Road	B3W17	UXO_QA_1	Yes
10/11/2017	0.12	Analog	Eucalyptus Road	B3W18	UXO_QA_1	Yes
10/11/2017	0.11	Analog	Eucalyptus Road	B3W19	UXO_QA_1	Yes
10/11/2017	0.1	Analog	Eucalyptus Road	B3W20	UXO_QA_1	Yes
10/11/2017	0.1	Analog	Eucalyptus Road	B3W21	UXO_QA_1	Yes
3/22/2018	0.07	Analog	B-3W	C2A0F0	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2A0G0	UXO_QA_1	Yes
3/22/2018	0.02	Analog	B-3W	C2A0G8	UXO_QA_1	Yes
3/22/2018	0.15	Analog	B-3W	C2A0G9	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2A0H0	UXO_QA_1	Yes
3/22/2018	<0.01	Analog	B-3W	C2A0H6	UXO_QA_1	Yes
3/22/2018	0.08	Analog	B-3W	C2A0H7	UXO_QA_1	Yes
3/22/2018	0.21	Analog	B-3W	C2A0H8	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2A0H9	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2A0I0	UXO_QA_1	Yes
3/22/2018	0.02	Analog	B-3W	C2A0I5	UXO_QA_1	Yes
3/22/2018	0.16	Analog	B-3W	C2A0I6	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2A0I7	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2A0I8	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2A0I9	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2A0J0	UXO_QA_1	Yes
3/22/2018	<0.01	Analog	B-3W	C2A0J3	UXO_QA_1	Yes

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3/22/2018	0.09	Analog	B-3W	C2A0J4	UXO_QA_1	Yes
3/22/2018	0.22	Analog	B-3W	C2A0J5	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2A0J6	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2A0J7	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2A0J8	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2A0J9	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0A0	UXO_QA_1	Yes
3/22/2018	0.03	Analog	B-3W	C2B0A2	UXO_QA_1	Yes
3/22/2018	0.17	Analog	B-3W	C2B0A3	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0A4	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0A5	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0A6	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0A7	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C2B0A8	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C2B0A9	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0B0	UXO_QA_1	Yes
3/22/2018	0.09	Analog	B-3W	C2B0B1	UXO_QA_1	Yes
3/22/2018	0.22	Analog	B-3W	C2B0B2	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0B3	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0B4	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0B5	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0B6	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0B7	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C2B0B8	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C2B0B9	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0C0	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0C1	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0C2	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0C3	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0C4	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0C5	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0C6	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0C7	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C2B0C8	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C2B0C9	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0D0	UXO_QA_1	Yes
3/22/2018	0.11	Analog	B-3W	C2B0D1	UXO_QA_1	Yes
3/22/2018	0.22	Analog	B-3W	C2B0D2	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0D3	UXO_QA_1	Yes

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3/22/2018	0.23	Analog	B-3W	C2B0D4	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0D5	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0D6	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0D7	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C2B0D8	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C2B0D9	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0E0	UXO_QA_1	Yes
3/22/2018	0.02	Analog	B-3W	C2B0E2	UXO_QA_1	Yes
3/22/2018	0.15	Analog	B-3W	C2B0E3	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0E4	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0E5	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0E6	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0E7	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C2B0E8	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C2B0E9	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0F0	UXO_QA_1	Yes
3/22/2018	0.05	Analog	B-3W	C2B0F4	UXO_QA_1	Yes
3/22/2018	0.18	Analog	B-3W	C2B0F5	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0F6	UXO_QA_1	Yes
3/22/2018	0.23	Analog	B-3W	C2B0F7	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C2B0F8	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C2B0F9	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C2B0G0	UXO_QA_1	Yes
3/22/2018	<0.01	Analog	B-3W	C2B0G5	UXO_QA_1	Yes
3/22/2018	0.09	Analog	B-3W	C2B0G6	UXO_QA_1	Yes
3/22/2018	0.21	Analog	B-3W	C2B0G7	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C2B0G8	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C2B0G9	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C2B0H0	UXO_QA_1	Yes
3/22/2018	0.01	Analog	B-3W	C2B0H7	UXO_QA_1	Yes
4/10/2018	0.13	Analog	B-3W	C2B0H8	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C2B0H9	UXO_QA_1	Yes
4/10/2018	0.16	Analog	B-3W	C2B0I0	UXO_QA_1	Yes
4/10/2018	0.04	Analog	B-3W	C2B0I9	UXO_QA_1	Yes
4/10/2018	<0.01	Analog	B-3W	C2B9B0	UXO_QA_1	Yes
4/10/2018	0.15	Analog	B-3W	C2B9C0	UXO_QA_1	Yes
4/10/2018	<0.01	Analog	B-3W	C2B9C9	UXO_QA_1	Yes
4/10/2018	0.01	Analog	B-3W	C2B9D0	UXO_QA_1	Yes
3/20/2018	<0.01	Analog	B-3W	C3A1C5	UXO_QA_1	Yes

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3/20/2018	0.04	Analog	B-3W	C3A1C6	UXO_QA_1	Yes
3/20/2018	0.02	Analog	B-3W	C3A1C7	UXO_QA_1	Yes
3/20/2018	0.03	Analog	B-3W	C3A1D3	UXO_QA_1	Yes
3/20/2018	0.13	Analog	B-3W	C3A1D4	UXO_QA_1	Yes
3/20/2018	0.2	Analog	B-3W	C3A1D5	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1D6	UXO_QA_1	Yes
3/20/2018	0.19	Analog	B-3W	C3A1D7	UXO_QA_1	Yes
3/20/2018	0.02	Analog	B-3W	C3A1D8	UXO_QA_1	Yes
3/20/2018	0.01	Analog	B-3W	C3A1E1	UXO_QA_1	Yes
3/20/2018	0.13	Analog	B-3W	C3A1E2	UXO_QA_1	Yes
3/20/2018	0.22	Analog	B-3W	C3A1E3	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1E4	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1E5	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1E6	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1E7	UXO_QA_1	Yes
3/20/2018	0.17	Analog	B-3W	C3A1E8	UXO_QA_1	Yes
3/20/2018	0.01	Analog	B-3W	C3A1E9	UXO_QA_1	Yes
3/20/2018	0.2	Analog	B-3W	C3A1F1	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1F2	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1F3	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1F4	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1F5	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1F6	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1F7	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1F8	UXO_QA_1	Yes
3/20/2018	0.11	Analog	B-3W	C3A1F9	UXO_QA_1	Yes
3/20/2018	0.03	Analog	B-3W	C3A1G0	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1G1	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1G2	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1G3	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1G4	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1G5	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1G6	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1G7	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1G8	UXO_QA_1	Yes
3/20/2018	0.22	Analog	B-3W	C3A1G9	UXO_QA_1	Yes
3/20/2018	0.18	Analog	B-3W	C3A1H0	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1H1	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1H2	UXO_QA_1	Yes

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3/20/2018	0.23	Analog	B-3W	C3A1H3	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1H4	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1H5	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1H6	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1H7	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1H8	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1H9	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1I0	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1I1	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1I2	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1I3	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1I4	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1I5	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1I6	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1I7	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1I8	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1I9	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1J0	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1J1	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1J2	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1J3	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1J4	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1J5	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1J6	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1J7	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1J8	UXO_QA_1	Yes
3/20/2018	0.23	Analog	B-3W	C3A1J9	UXO_QA_1	Yes
10/30/2017	<0.01	Analog	B-3W	C3A2H1	UXO_QA_1	Yes
10/30/2017	0.12	Analog	B-3W	C3A2I1	UXO_QA_1	Yes
10/30/2017	0.23	Analog	B-3W	C3A2J1	UXO_QA_1	Yes
10/30/2017	0.05	Analog	B-3W	C3A2J2	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1A0	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C3B1A1	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C3B1A2	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C3B1A3	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C3B1A4	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C3B1A5	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1A6	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1A7	UXO_QA_1	Yes

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4/5/2018	0.23	Analog	B-3W	C3B1A8	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1A9	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1B0	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1B1	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C3B1B2	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C3B1B3	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C3B1B4	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1B5	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1B6	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1B7	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1B8	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1B9	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1C0	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C3B1C1	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C3B1C2	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C3B1C3	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C3B1C4	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1C5	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1C6	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1C7	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1C8	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1C9	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1D0	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C3B1D1	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C3B1D2	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C3B1D3	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C3B1D4	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1D5	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1D6	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1D7	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1D8	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1D9	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1E0	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C3B1E1	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C3B1E2	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C3B1E3	UXO_QA_1	Yes
4/10/2018	0.23	Analog	B-3W	C3B1E4	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1E5	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1E6	UXO_QA_1	Yes

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4/5/2018	0.23	Analog	B-3W	C3B1E7	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1E8	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1E9	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1F0	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1F1	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1F2	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1F3	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1F4	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1F5	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1F6	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1F7	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1F8	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1F9	UXO_QA_1	Yes
4/5/2018	0.19	Analog	B-3W	C3B1G0	UXO_QA_1	Yes
9/27/2017	0.04	Analog	Parker Flats Road	C3B1G0	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1G1	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1G2	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1G3	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1G4	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1G5	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1G6	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1G7	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1G8	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1G9	UXO_QA_1	Yes
4/5/2018	0.03	Analog	B-3W	C3B1H0	UXO_QA_1	Yes
10/11/2017	0.2	Analog	Parker Flats Road	C3B1H0	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1H1	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1H2	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1H3	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1H4	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1H5	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1H6	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1H7	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1H8	UXO_QA_1	Yes
4/5/2018	0.2	Analog	B-3W	C3B1H9	UXO_QA_1	Yes
10/11/2017	0.03	Analog	Parker Flats Road	C3B1H9	UXO_QA_1	Yes
10/11/2017	0.22	Analog	Parker Flats Road	C3B1I0	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1I1	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1I2	UXO_QA_1	Yes



Date Analog Surface Op QA Complete	Acreage	Survey Type	Operation ID	Grid ID	Analog Surface Op QA Team	Complete
4/5/2018	0.23	Analog	B-3W	C3B1I3	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1I4	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1I5	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1I6	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1I7	UXO_QA_1	Yes
4/5/2018	0.21	Analog	B-3W	C3B1I8	UXO_QA_1	Yes
10/11/2017	0.02	Analog	Parker Flats Road	C3B1I8	UXO_QA_1	Yes
4/5/2018	0.04	Analog	B-3W	C3B1I9	UXO_QA_1	Yes
10/11/2017	0.19	Analog	Parker Flats Road	C3B1I9	UXO_QA_1	Yes
10/11/2017	0.06	Analog	Parker Flats Road	C3B1J0	UXO_QA_1	Yes
4/5/2018	0.07	Analog	B-3W	C3B1J1	UXO_QA_1	Yes
4/5/2018	0.2	Analog	B-3W	C3B1J2	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1J3	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1J4	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1J5	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1J6	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3B1J7	UXO_QA_1	Yes
10/11/2017	<0.01	Analog	Parker Flats Road	C3B1J7	UXO_QA_1	Yes
4/5/2018	0.07	Analog	B-3W	C3B1J8	UXO_QA_1	Yes
10/11/2017	0.16	Analog	Parker Flats Road	C3B1J8	UXO_QA_1	Yes
10/11/2017	0.22	Analog	Parker Flats Road	C3B1J9	UXO_QA_1	Yes
10/30/2017	0.23	Analog	B-3W	C3B2A1	UXO_QA_1	Yes
10/30/2017	0.2	Analog	B-3W	C3B2A2	UXO_QA_1	Yes
10/30/2017	0.02	Analog	B-3W	C3B2A3	UXO_QA_1	Yes
10/30/2017	0.23	Analog	B-3W	C3B2B1	UXO_QA_1	Yes
10/30/2017	0.23	Analog	B-3W	C3B2B2	UXO_QA_1	Yes
10/30/2017	0.16	Analog	B-3W	C3B2B3	UXO_QA_1	Yes
10/30/2017	<0.01	Analog	B-3W	C3B2B4	UXO_QA_1	Yes
10/30/2017	0.23	Analog	B-3W	C3B2C1	UXO_QA_1	Yes
10/30/2017	0.23	Analog	B-3W	C3B2C2	UXO_QA_1	Yes
10/30/2017	0.23	Analog	B-3W	C3B2C3	UXO_QA_1	Yes
10/30/2017	0.11	Analog	B-3W	C3B2C4	UXO_QA_1	Yes
9/27/2017	0.01	Analog	Parker Flats Road	C3B2C4	UXO_QA_1	Yes
10/30/2017	0.23	Analog	B-3W	C3B2D1	UXO_QA_1	Yes
10/30/2017	0.23	Analog	B-3W	C3B2D2	UXO_QA_1	Yes
10/30/2017	0.19	Analog	B-3W	C3B2D3	UXO_QA_1	Yes
9/27/2017	0.03	Analog	Parker Flats Road	C3B2D3	UXO_QA_1	Yes
10/30/2017	0.03	Analog	B-3W	C3B2D4	UXO_QA_1	Yes
9/27/2017	0.2	Analog	Parker Flats Road	C3B2D4	UXO_QA_1	Yes

Date Analog Surface Op QA Complete	Acreage	Survey Type	Operation ID	Grid ID	Analog Surface Op QA Team	Complete
9/27/2017	0.08	Analog	Parker Flats Road	C3B2D5	UXO_QA_1	Yes
10/30/2017	0.23	Analog	B-3W	C3B2E1	UXO_QA_1	Yes
10/30/2017	0.19	Analog	B-3W	C3B2E2	UXO_QA_1	Yes
9/27/2017	0.04	Analog	Parker Flats Road	C3B2E2	UXO_QA_1	Yes
10/30/2017	0.02	Analog	B-3W	C3B2E3	UXO_QA_1	Yes
9/27/2017	0.21	Analog	Parker Flats Road	C3B2E3	UXO_QA_1	Yes
9/27/2017	0.21	Analog	Parker Flats Road	C3B2E4	UXO_QA_1	Yes
9/27/2017	0.04	Analog	Parker Flats Road	C3B2E5	UXO_QA_1	Yes
10/30/2017	0.18	Analog	B-3W	C3B2F1	UXO_QA_1	Yes
9/27/2017	0.05	Analog	Parker Flats Road	C3B2F1	UXO_QA_1	Yes
10/30/2017	0.02	Analog	B-3W	C3B2F2	UXO_QA_1	Yes
9/27/2017	0.21	Analog	Parker Flats Road	C3B2F2	UXO_QA_1	Yes
9/27/2017	0.2	Analog	Parker Flats Road	C3B2F3	UXO_QA_1	Yes
9/27/2017	0.03	Analog	Parker Flats Road	C3B2F4	UXO_QA_1	Yes
10/30/2017	0.02	Analog	B-3W	C3B2G1	UXO_QA_1	Yes
9/27/2017	0.21	Analog	Parker Flats Road	C3B2G1	UXO_QA_1	Yes
9/27/2017	0.2	Analog	Parker Flats Road	C3B2G2	UXO_QA_1	Yes
9/27/2017	0.03	Analog	Parker Flats Road	C3B2G3	UXO_QA_1	Yes
10/11/2017	0.21	Analog	Parker Flats Road	C3B2H1	UXO_QA_1	Yes
10/11/2017	0.03	Analog	Parker Flats Road	C3B2H2	UXO_QA_1	Yes
10/11/2017	0.04	Analog	Parker Flats Road	C3B2I1	UXO_QA_1	Yes
4/5/2018	0.01	Analog	B-3W	C3C1A2	UXO_QA_1	Yes
4/5/2018	0.11	Analog	B-3W	C3C1A3	UXO_QA_1	Yes
4/5/2018	0.22	Analog	B-3W	C3C1A4	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3C1A5	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3C1A6	UXO_QA_1	Yes
4/5/2018	0.16	Analog	B-3W	C3C1A7	UXO_QA_1	Yes
10/11/2017	0.07	Analog	Parker Flats Road	C3C1A7	UXO_QA_1	Yes
10/11/2017	0.23	Analog	Parker Flats Road	C3C1A8	UXO_QA_1	Yes
10/11/2017	0.1	Analog	Parker Flats Road	C3C1A9	UXO_QA_1	Yes
4/5/2018	0.03	Analog	B-3W	C3C1B4	UXO_QA_1	Yes
4/5/2018	0.15	Analog	B-3W	C3C1B5	UXO_QA_1	Yes
4/5/2018	0.23	Analog	B-3W	C3C1B6	UXO_QA_1	Yes
4/5/2018	0.06	Analog	B-3W	C3C1B7	UXO_QA_1	Yes
10/11/2017	0.17	Analog	Parker Flats Road	C3C1B7	UXO_QA_1	Yes
10/11/2017	0.2	Analog	Parker Flats Road	C3C1B8	UXO_QA_1	Yes
10/11/2017	<0.01	Analog	Parker Flats Road	C3C1B9	UXO_QA_1	Yes
4/5/2018	0.05	Analog	B-3W	C3C1C6	UXO_QA_1	Yes
10/11/2017	<0.01	Analog	Parker Flats Road	C3C1C6	UXO_QA_1	Yes

Date Analog Surface Op QA Complete	Acreage	Survey Type	Operation ID	Grid ID	Analog Surface Op QA Team	Complete
4/5/2018	<0.01	Analog	B-3W	C3C1C7	UXO_QA_1	Yes
10/11/2017	0.18	Analog	Parker Flats Road	C3C1C7	UXO_QA_1	Yes
10/11/2017	0.12	Analog	Parker Flats Road	C3C1C8	UXO_QA_1	Yes
10/11/2017	<0.01	Analog	Parker Flats Road	C3C1D7	UXO_QA_1	Yes
10/11/2017	0.01	Analog	Parker Flats Road	C3C1D8	UXO_QA_1	Yes

*Appendix D*

*DGM QC Results*

Unit	Dataset ID	Grid ID	Size Acre	Category	DGM Date	Geo Data Processed & Submitted	Selected for QC Reprocessing	Date Geo Data QC Complete	Number of QC Targets	QC Complete Initials
B-3W	C3A1D61	C2A0E0	<0.01	Modified A	7/3/2018	7/23/2018	N	9/26/2018	0	AZK
B-3W	C2A0G91	C2A0F0	0.18	Modified A	7/10/2018	7/30/2018	N	9/27/2018	0	AZK
B-3W	C2A0G91	C2A0F9	0.04	Modified A	7/10/2018	7/30/2018	N	9/27/2018	0	AZK
B-3W	C2A0G91	C2A0G0	0.23	Modified A	7/10/2018	7/30/2018	N	9/27/2018	0	AZK
B-3W	C2A0G91	C2A0G7	0.00	Modified A	7/10/2018	7/30/2018	N	9/27/2018	0	AZK
B-3W	C2A0G91	C2A0G8	0.11	Modified A	7/10/2018	7/30/2018	N	9/27/2018	0	AZK
B-3W	C2A0G91	C2A0G9	0.22	Modified A	7/10/2018	7/30/2018	N	9/27/2018	0	AZK
B-3W	C2A0H71	C2A0H0	0.23	Modified A	7/11/2018	7/24/2018	N	9/26/2018	0	AZK
B-3W	C2A0H71	C2A0H6	0.04	Modified A	7/11/2018	7/24/2018	N	9/26/2018	0	AZK
B-3W	C2A0H71	C2A0H7	0.18	Modified A	7/11/2018	7/24/2018	N	9/26/2018	0	AZK
B-3W	C2A0H71	C2A0H8	0.23	Modified A	7/11/2018	7/24/2018	N	9/26/2018	0	AZK
B-3W	C2A0H71	C2A0H9	0.23	Modified A	7/11/2018	7/24/2018	N	9/26/2018	0	AZK
B-3W	C2A0H71	C2A0I0	0.23	Modified A	7/11/2018	7/24/2018	N	9/26/2018	0	AZK
B-3W	C2A0H71	C2A0I4	0.01	Modified A	7/11/2018	7/24/2018	N	9/26/2018	0	AZK
B-3W	C2A0H71	C2A0I5	0.12	Modified A	7/11/2018	7/24/2018	N	9/26/2018	0	AZK
B-3W	C2A0H71	C2A0I6	0.22	Modified A	7/11/2018	7/24/2018	N	9/26/2018	0	AZK
B-3W	C2A0H71	C2A0I7	0.23	Modified A	7/11/2018	7/24/2018	Y	9/26/2018	0	AZK
B-3W	C2A0H71	C2A0I8	0.23	Modified A	7/11/2018	7/24/2018	N	9/26/2018	0	AZK
B-3W	C2A0H71	C2A0I9	0.23	Modified A	7/11/2018	7/24/2018	N	9/26/2018	0	AZK
B-3W	C2A0H71	C2A0J0	0.23	Modified A	7/11/2018	7/24/2018	N	9/26/2018	0	AZK
B-3W	C2A0J41	C2A0J3	0.05	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2A0J4	0.19	Modified A	7/16/2018	8/2/2018	Y	8/18/2018	0	AZK
B-3W	C2A0J41	C2A0J5	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2A0J6	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2A0J7	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2A0J8	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2A0J9	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0H71	C2B0A0	0.23	Modified A	7/11/2018	7/24/2018	N	9/26/2018	0	AZK
B-3W	C2A0J41	C2B0A2	0.12	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK

Unit	Dataset ID	Grid ID	Size Acre	Category	DGM Date	Geo Data Processed & Submitted	Selected for QC Reprocessing	Date Geo Data QC Complete	Number of QC Targets	QC Complete Initials
B-3W	C2A0J41	C2B0A3	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0A4	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0A5	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0A6	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0A7	0.23	Modified A	7/16/2018	8/2/2018	Y	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0A8	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0A9	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2B0B01	C2B0B0	0.23	Modified A	7/2/2018	7/26/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0B1	0.20	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0B2	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0B3	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0B4	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0B5	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0B6	0.23	Modified A	7/16/2018	8/2/2018	Y	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0B7	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0B8	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0B9	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2B0B01	C2B0C0	0.23	Modified A	7/2/2018	7/26/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0C1	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0C2	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0C3	0.23	Modified A	7/16/2018	8/2/2018	Y	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0C4	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0C5	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0C6	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0C7	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2B0B01	C2B0C9	0.23	Modified A	7/2/2018	7/26/2018	N	8/18/2018	0	AZK
B-3W	C2B0B01	C2B0D0	0.23	Modified A	7/2/2018	7/26/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0D1	0.11	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0D2	0.22	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0D3	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B0D4	0.23	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK

Unit	Dataset ID	Grid ID	Size Acre	Category	DGM Date	Geo Data Processed & Submitted	Selected for QC Reprocessing	Date Geo Data QC Complete	Number of QC Targets	QC Complete Initials
B-3W	C2B0B01	C2B0D7	0.23	Modified A	7/2/2018	7/26/2018	N	8/18/2018	0	AZK
B-3W	C2B0B01	C2B0D8	0.23	Modified A	7/2/2018	7/26/2018	N	8/18/2018	0	AZK
B-3W	C2B0B01	C2B0D9	0.23	Modified A	7/2/2018	7/26/2018	N	8/18/2018	0	AZK
B-3W	C2B0B01	C2B0E0	0.23	Modified A	7/2/2018	7/26/2018	Y	8/18/2018	0	AZK
B-3W	C2B0B01	C2B0E8	0.23	Modified A	7/2/2018	7/26/2018	N	8/18/2018	0	AZK
B-3W	C2B0B01	C2B0E9	0.23	Modified A	7/2/2018	7/26/2018	N	8/18/2018	0	AZK
B-3W	C2B0B01	C2B0F0	0.23	Modified A	7/2/2018	7/26/2018	N	8/18/2018	0	AZK
B-3W	C2B0B01	C2B0F8	0.23	Modified A	7/2/2018	7/26/2018	N	8/18/2018	0	AZK
B-3W	C2B0B01	C2B0F9	0.23	Modified A	7/2/2018	7/26/2018	N	8/18/2018	0	AZK
B-3W	C2B0B01	C2B0G0	0.23	Modified A	7/2/2018	7/26/2018	N	8/18/2018	0	AZK
B-3W	C2B0B01	C2B0H0	0.23	Modified A	7/2/2018	7/26/2018	Y	8/18/2018	0	AZK
B-3W	C2B0B01	C2B0I0	0.16	Modified A	7/2/2018	7/26/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B9B0	0.05	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B9C0	0.20	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C2A0J41	C2B9C9	0.05	Modified A	7/16/2018	8/2/2018	N	8/18/2018	0	AZK
B-3W	C3A1D61	C3A1C4	0.02	Modified A	7/3/2018	7/23/2018	N	9/26/2018	0	AZK
B-3W	C3A1D61	C3A1C5	0.08	Modified A	7/3/2018	7/23/2018	N	9/26/2018	0	AZK
B-3W	C3A1D61	C3A1C6	0.13	Modified A	7/3/2018	7/23/2018	N	9/26/2018	0	AZK
B-3W	C3A1E71	C3A1C7	0.02	Modified A	6/20/2018	7/11/2018	N	8/28/2018	0	AZK
B-3W	C3A1D61	C3A1D2	0.03	Modified A	7/3/2018	7/23/2018	N	9/26/2018	0	AZK
B-3W	C3A1D61	C3A1D3	0.16	Modified A	7/3/2018	7/23/2018	N	9/26/2018	0	AZK
B-3W	C3A1D61	C3A1D4	0.23	Modified A	7/3/2018	7/23/2018	N	9/26/2018	0	AZK
B-3W	C3A1D61	C3A1D5	0.23	Modified A	7/3/2018	7/23/2018	N	9/26/2018	0	AZK
B-3W	C3A1D61	C3A1D6	0.23	Modified A	7/3/2018	7/23/2018	N	9/26/2018	0	AZK
B-3W	C3A1E71	C3A1D7	0.19	Modified A	6/20/2018	7/11/2018	N	8/28/2018	0	AZK
B-3W	C3A1F81	C3A1D8	0.02	Modified A	6/19/2018	7/10/2018	N	8/29/2018	0	AZK
B-3W	C3A1D61	C3A1E1	0.10	Modified A	7/3/2018	7/23/2018	N	9/26/2018	0	AZK
B-3W	C3A1D61	C3A1E2	0.22	Modified A	7/3/2018	7/23/2018	N	9/26/2018	0	AZK
B-3W	C3A1D61	C3A1E3	0.23	Modified A	7/3/2018	7/23/2018	N	9/26/2018	0	AZK
B-3W	C3A1D61	C3A1E4	0.23	Modified A	7/3/2018	7/23/2018	N	9/26/2018	0	AZK
B-3W	C3A1D61	C3A1E5	0.23	Modified A	7/3/2018	7/23/2018	Y	9/26/2018	0	AZK

Unit	Dataset ID	Grid ID	Size Acre	Category	DGM Date	Geo Data Processed & Submitted	Selected for QC Reprocessing	Date Geo Data QC Complete	Number of QC Targets	QC Complete Initials
B-3W	C3A1D61	C3A1E6	0.23	Modified A	7/3/2018	7/23/2018	N	9/26/2018	0	AZK
B-3W	C3A1E71	C3A1E7	0.23	Modified A	6/20/2018	7/11/2018	N	8/28/2018	0	AZK
B-3W	C3A1F81	C3A1E8	0.17	Modified A	6/19/2018	7/10/2018	N	8/29/2018	0	AZK
B-3W	C3A1G91	C3A1E9	0.01	Modified A	6/18/2018	7/6/2018	N	9/12/2018	0	AZK
B-3W	C2A0G91	C3A1F1	0.23	Modified A	7/10/2018	7/30/2018	N	9/27/2018	0	AZK
B-3W	C2A0G91	C3A1F2	0.23	Modified A	7/10/2018	7/30/2018	N	9/27/2018	0	AZK
B-3W	C2A0G91	C3A1F3	0.23	Modified A	7/10/2018	7/30/2018	N	9/27/2018	0	AZK
B-3W	C2A0G91	C3A1F4	0.23	Modified A	7/10/2018	7/30/2018	N	9/27/2018	0	AZK
B-3W	C2A0G91	C3A1F5	0.23	Modified A	7/10/2018	7/30/2018	N	9/27/2018	0	AZK
B-3W	C2A0G91	C3A1F6	0.23	Modified A	7/10/2018	7/30/2018	N	9/27/2018	0	AZK
B-3W	C3A1E71	C3A1F7	0.23	Modified A	6/20/2018	7/11/2018	N	8/28/2018	0	AZK
B-3W	C3A1F81	C3A1F8	0.23	Modified A	6/19/2018	7/10/2018	N	8/29/2018	0	AZK
B-3W	C3A1G91	C3A1F9	0.11	Modified A	6/18/2018	7/6/2018	N	9/12/2018	0	AZK
B-3W	C3A1H01	C3A1G0	0.03	Modified A	6/14/2018	7/2/2018	N	9/12/2018	0	AZK
B-3W	C2A0G91	C3A1G1	0.23	Modified A	7/10/2018	7/30/2018	Y	9/27/2018	0	AZK
B-3W	C2A0G91	C3A1G2	0.23	Modified A	7/10/2018	7/30/2018	N	9/27/2018	0	AZK
B-3W	C2A0G91	C3A1G3	0.23	Modified A	7/10/2018	7/30/2018	N	9/27/2018	0	AZK
B-3W	C2A0G91	C3A1G4	0.23	Modified A	7/10/2018	7/30/2018	N	9/27/2018	0	AZK
B-3W	C2A0G91	C3A1G5	0.23	Modified A	7/10/2018	7/30/2018	N	9/27/2018	0	AZK
B-3W	C2A0G91	C3A1G6	0.23	Modified A	7/10/2018	7/30/2018	N	9/27/2018	0	AZK
B-3W	C3A1E71	C3A1G7	0.23	Modified A	6/20/2018	7/11/2018	N	8/28/2018	0	AZK
B-3W	C3A1F81	C3A1G8	0.23	Modified A	6/19/2018	7/10/2018	N	8/29/2018	0	AZK
B-3W	C3A1G91	C3A1G9	0.22	Modified A	6/18/2018	7/6/2018	N	9/12/2018	0	AZK
B-3W	C3A1H01	C3A1H0	0.18	Modified A	6/14/2018	7/2/2018	N	9/12/2018	0	AZK
B-3W	C2A0H71	C3A1H1	0.23	Modified A	7/11/2018	7/24/2018	N	9/26/2018	0	AZK
B-3W	C2A0H71	C3A1H2	0.23	Modified A	7/11/2018	7/24/2018	N	9/26/2018	0	AZK



Unit	Dataset ID	Grid ID	Size Acre	Category	DGM Date	Geo Data Processed & Submitted	Selected for QC Reprocessing	Date Geo Data QC Complete	Number of QC Targets	QC Complete Initials
B-3W	C2A0H71	C3A1H3	0.23	Modified A	7/11/2018	7/24/2018	N	9/26/2018	0	AZK
B-3W	C2A0H71	C3A1H4	0.23	Modified A	7/11/2018	7/24/2018	N	9/26/2018	0	AZK
B-3W	C2A0G91	C3A1H6	0.23	Modified A	7/10/2018	7/30/2018	N	9/27/2018	0	AZK
B-3W	C3A1E71	C3A1H7	0.23	Modified A	6/20/2018	7/11/2018	N	8/28/2018	0	AZK
B-3W	C3A1F81	C3A1H8	0.23	Modified A	6/19/2018	7/10/2018	N	8/29/2018	0	AZK
B-3W	C3A1G91	C3A1H9	0.23	Modified A	6/18/2018	7/6/2018	N	9/12/2018	0	AZK
B-3W	C3A1H01	C3A1I0	0.23	Modified A	6/14/2018	7/2/2018	N	9/12/2018	0	AZK
B-3W	C3B1B41	C3A1I3	0.23	Modified A	6/27/2018	7/18/2018	N	8/18/2018	0	AZK
B-3W	C3A1J61	C3A1I6	0.23	Modified A	6/21/2018	7/13/2018	N	8/28/2018	0	AZK
B-3W	C3A1E71	C3A1I7	0.23	Modified A	6/20/2018	7/11/2018	N	8/28/2018	0	AZK
B-3W	C3A1F81	C3A1I8	0.23	Modified A	6/19/2018	7/10/2018	N	8/29/2018	0	AZK
B-3W	C3A1G91	C3A1I9	0.23	Modified A	6/18/2018	7/6/2018	Y	9/12/2018	0	AZK
B-3W	C3A1H01	C3A1J0	0.23	Modified A	6/14/2018	7/2/2018	N	9/12/2018	0	AZK
B-3W	C2A0H71	C3A1J1	0.23	Modified A	7/11/2018	7/24/2018	N	9/26/2018	0	AZK
B-3W	C3B1B41	C3A1J3	0.23	Modified A	6/27/2018	7/18/2018	Y	8/18/2018	0	AZK
B-3W	C3B1A51	C3A1J5	0.23	Modified A	6/25/2018	7/16/2018	N	8/18/2018	0	AZK
B-3W	C3A1J61	C3A1J6	0.23	Modified A	6/21/2018	7/13/2018	N	8/28/2018	0	AZK
B-3W	C3A1E71	C3A1J7	0.23	Modified A	6/20/2018	7/11/2018	Y	8/28/2018	0	AZK
B-3W	C3A1F81	C3A1J8	0.23	Modified A	6/19/2018	7/10/2018	N	8/29/2018	0	AZK
B-3W	C3A1G91	C3A1J9	0.23	Modified A	6/18/2018	7/6/2018	N	9/12/2018	0	AZK
B-3W	C3B2A21	C3A2H1	<0.01	Modified A	6/13/2018	6/27/2018	N	9/10/2018	0	AZK
B-3W	C3B2A21	C3A2I1	0.12	Modified A	6/13/2018	6/27/2018	N	9/10/2018	0	AZK
B-3W	C3B2A21	C3A2J1	0.23	Modified A	6/13/2018	6/27/2018	N	9/10/2018	0	AZK
B-3W	C3B2A21	C3A2J2	0.05	Modified A	6/13/2018	6/27/2018	N	9/10/2018	0	AZK
B-3W	C3A1H01	C3B1A0	0.23	Modified A	6/14/2018	7/2/2018	N	9/12/2018	0	AZK
B-3W	C2A0H71	C3B1A1	0.23	Modified A	7/11/2018	7/24/2018	N	9/26/2018	0	AZK

Unit	Dataset ID	Grid ID	Size Acre	Category	DGM Date	Geo Data Processed & Submitted	Selected for QC Reprocessing	Date Geo Data QC Complete	Number of QC Targets	QC Complete Initials
B-3W	C3B1B21	C3B1A2	0.23	Modified A	6/28/2018	7/20/2018	N	8/18/2018	0	AZK
B-3W	C3B1B41	C3B1A3	0.23	Modified A	6/27/2018	7/18/2018	N	8/18/2018	0	AZK
B-3W	C3B1B41	C3B1A4	0.23	Modified A	6/27/2018	7/18/2018	N	8/18/2018	0	AZK
B-3W	C3B1A51	C3B1A5	0.23	Modified A	6/25/2018	7/16/2018	N	8/18/2018	0	AZK
B-3W	C3A1J61	C3B1A6	0.23	Modified A	6/21/2018	7/13/2018	N	8/28/2018	0	AZK
B-3W	C3A1E71	C3B1A7	0.23	Modified A	6/20/2018	7/11/2018	N	8/28/2018	0	AZK
B-3W	C3A1F81	C3B1A8	0.23	Modified A	6/19/2018	7/10/2018	N	8/29/2018	0	AZK
B-3W	C3A1G91	C3B1A9	0.23	Modified A	6/18/2018	7/6/2018	N	9/12/2018	0	AZK
B-3W	C3A1H01	C3B1B0	0.23	Modified A	6/14/2018	7/2/2018	N	9/12/2018	0	AZK
B-3W	C3B1B11	C3B1B1	0.23	Modified A	6/28/2018	7/19/2018	N	8/18/2018	0	AZK
B-3W	C3B1B21	C3B1B2	0.23	Modified A	6/28/2018	7/20/2018	N	8/18/2018	0	AZK
B-3W	C3B1B41	C3B1B3	0.23	Modified A	6/27/2018	7/18/2018	N	8/18/2018	0	AZK
B-3W	C3B1B41	C3B1B4	0.23	Modified A	6/27/2018	7/18/2018	N	8/18/2018	0	AZK
B-3W	C3B1A51	C3B1B5	0.23	Modified A	6/25/2018	7/16/2018	N	8/18/2018	0	AZK
B-3W	C3A1J61	C3B1B6	0.23	Modified A	6/21/2018	7/13/2018	N	8/28/2018	0	AZK
B-3W	C3A1E71	C3B1B7	0.23	Modified A	6/20/2018	7/11/2018	N	8/28/2018	0	AZK
B-3W	C3A1F81	C3B1B8	0.23	Modified A	6/19/2018	7/10/2018	Y	8/29/2018	0	AZK
B-3W	C3A1G91	C3B1B9	0.23	Modified A	6/18/2018	7/6/2018	N	9/12/2018	0	AZK
B-3W	C3A1H01	C3B1C0	0.23	Modified A	6/14/2018	7/2/2018	Y	9/12/2018	0	AZK
B-3W	C3B1B11	C3B1C1	0.23	Modified A	6/28/2018	7/19/2018	Y	8/18/2018	0	AZK
B-3W	C3B1B21	C3B1C2	0.23	Modified A	6/28/2018	7/20/2018	N	8/18/2018	0	AZK
B-3W	C3B1B41	C3B1C3	0.23	Modified A	6/27/2018	7/18/2018	N	8/18/2018	0	AZK
B-3W	C3B1B41	C3B1C4	0.23	Modified A	6/27/2018	7/18/2018	N	8/18/2018	0	AZK
B-3W	C3B1A51	C3B1C5	0.23	Modified A	6/25/2018	7/16/2018	N	8/18/2018	0	AZK
B-3W	C3A1J61	C3B1C6	0.23	Modified A	6/21/2018	7/13/2018	N	8/28/2018	0	AZK
B-3W	C3A1E71	C3B1C7	0.23	Modified A	6/20/2018	7/11/2018	N	8/28/2018	0	AZK

Unit	Dataset ID	Grid ID	Size Acre	Category	DGM Date	Geo Data Processed & Submitted	Selected for QC Reprocessing	Date Geo Data QC Complete	Number of QC Targets	QC Complete Initials
B-3W	C3A1F81	C3B1C8	0.23	Modified A	6/19/2018	7/10/2018	N	8/29/2018	0	AZK
B-3W	C3A1G91	C3B1C9	0.23	Modified A	6/18/2018	7/6/2018	N	9/12/2018	0	AZK
B-3W	C3A1H01	C3B1D0	0.23	Modified A	6/14/2018	7/2/2018	N	9/12/2018	0	AZK
B-3W	C3B1B11	C3B1D1	0.23	Modified A	6/28/2018	7/19/2018	N	8/18/2018	0	AZK
B-3W	C3B1B21	C3B1D2	0.23	Modified A	6/28/2018	7/20/2018	N	8/18/2018	0	AZK
B-3W	C3B1B41	C3B1D3	0.23	Modified A	6/27/2018	7/18/2018	Y	8/18/2018	0	AZK
B-3W	C3B1B41	C3B1D4	0.23	Modified A	6/27/2018	7/18/2018	N	8/18/2018	0	AZK
B-3W	C3B1A51	C3B1D5	0.23	Modified A	6/25/2018	7/16/2018	N	8/18/2018	0	AZK
B-3W	C3A1J61	C3B1D6	0.23	Modified A	6/21/2018	7/13/2018	N	8/28/2018	0	AZK
B-3W	C3A1E71	C3B1D7	0.23	Modified A	6/20/2018	7/11/2018	N	8/28/2018	0	AZK
B-3W	C3A1F81	C3B1D8	0.23	Modified A	6/19/2018	7/10/2018	N	8/29/2018	0	AZK
B-3W	C3A1G91	C3B1D9	0.23	Modified A	6/18/2018	7/6/2018	N	9/12/2018	0	AZK
B-3W	C3A1H01	C3B1E0	0.23	Modified A	6/14/2018	7/2/2018	N	9/12/2018	0	AZK
B-3W	C3B1B11	C3B1E1	0.23	Modified A	6/28/2018	7/19/2018	N	8/18/2018	0	AZK
B-3W	C3B1B21	C3B1E2	0.23	Modified A	6/28/2018	7/20/2018	N	8/18/2018	0	AZK
B-3W	C3B1B41	C3B1E3	0.23	Modified A	6/27/2018	7/18/2018	N	8/18/2018	0	AZK
B-3W	C3B1B41	C3B1E4	0.23	Modified A	6/27/2018	7/18/2018	N	8/18/2018	0	AZK
B-3W	C3B1A51	C3B1E5	0.23	Modified A	6/25/2018	7/16/2018	Y	8/18/2018	0	AZK
B-3W	C3A1J61	C3B1E6	0.23	Modified A	6/21/2018	7/13/2018	N	8/28/2018	0	AZK
B-3W	C3A1E71	C3B1E7	0.23	Modified A	6/20/2018	7/11/2018	N	8/28/2018	0	AZK
B-3W	C3A1F81	C3B1E8	0.23	Modified A	6/19/2018	7/10/2018	N	8/29/2018	0	AZK
B-3W	C3A1G91	C3B1E9	0.23	Modified A	6/18/2018	7/6/2018	N	9/12/2018	0	AZK
B-3W	C3A1H01	C3B1F0	0.23	Modified A	6/14/2018	7/2/2018	N	9/12/2018	0	AZK
B-3W	C3B1B11	C3B1F1	0.23	Modified A	6/28/2018	7/19/2018	N	8/18/2018	0	AZK
B-3W	C3B1B21	C3B1F2	0.23	Modified A	6/28/2018	7/20/2018	N	8/18/2018	0	AZK
B-3W	C3B1B41	C3B1F3	0.23	Modified A	6/27/2018	7/18/2018	N	8/18/2018	0	AZK

Unit	Dataset ID	Grid ID	Size Acre	Category	DGM Date	Geo Data Processed & Submitted	Selected for QC Reprocessing	Date Geo Data QC Complete	Number of QC Targets	QC Complete Initials
B-3W	C3B1B41	C3B1F4	0.23	Modified A	6/27/2018	7/18/2018	N	8/18/2018	0	AZK
B-3W	C3B1A51	C3B1F5	0.23	Modified A	6/25/2018	7/16/2018	N	8/18/2018	0	AZK
B-3W	C3A1J61	C3B1F6	0.23	Modified A	6/21/2018	7/13/2018	N	8/28/2018	0	AZK
B-3W	C3A1E71	C3B1F7	0.23	Modified A	6/20/2018	7/11/2018	Y	8/28/2018	0	AZK
B-3W	C3A1F81	C3B1F8	0.23	Modified A	6/19/2018	7/10/2018	N	8/29/2018	0	AZK
B-3W	C3A1G91	C3B1F9	0.23	Modified A	6/18/2018	7/6/2018	N	9/12/2018	0	AZK
B-3W	C3A1H01	C3B1G0	0.23	Modified A	6/14/2018	7/2/2018	N	9/12/2018	0	AZK
B-3W	C3B1B11	C3B1G1	0.23	Modified A	6/28/2018	7/19/2018	N	8/18/2018	0	AZK
B-3W	C3B1B21	C3B1G2	0.23	Modified A	6/28/2018	7/20/2018	Y	8/18/2018	0	AZK
B-3W	C3B1B41	C3B1G3	0.23	Modified A	6/27/2018	7/18/2018	N	8/18/2018	0	AZK
B-3W	C3B1B41	C3B1G4	0.23	Modified A	6/27/2018	7/18/2018	N	8/18/2018	0	AZK
B-3W	C3B1A51	C3B1G5	0.23	Modified A	6/25/2018	7/16/2018	N	8/18/2018	0	AZK
B-3W	C3A1J61	C3B1G6	0.23	Modified A	6/21/2018	7/13/2018	N	8/28/2018	0	AZK
B-3W	C3A1E71	C3B1G7	0.23	Modified A	6/20/2018	7/11/2018	N	8/28/2018	0	AZK
B-3W	C3A1F81	C3B1G8	0.23	Modified A	6/19/2018	7/10/2018	N	8/29/2018	0	AZK
B-3W	C3A1G91	C3B1G9	0.23	Modified A	6/18/2018	7/6/2018	N	9/12/2018	0	AZK
B-3W	C3A1H01	C3B1H0	0.23	Modified A	6/14/2018	7/2/2018	N	9/12/2018	0	AZK
B-3W	C3B1B11	C3B1H1	0.23	Modified A	6/28/2018	7/19/2018	N	8/18/2018	0	AZK
B-3W	C3B1B21	C3B1H2	0.23	Modified A	6/28/2018	7/20/2018	N	8/18/2018	0	AZK
B-3W	C3B1B41	C3B1H3	0.23	Modified A	6/27/2018	7/18/2018	N	8/18/2018	0	AZK
B-3W	C3B1B41	C3B1H4	0.23	Modified A	6/27/2018	7/18/2018	N	8/18/2018	0	AZK
B-3W	C3B1A51	C3B1H5	0.23	Modified A	6/25/2018	7/16/2018	N	8/18/2018	0	AZK
B-3W	C3A1J61	C3B1H6	0.23	Modified A	6/21/2018	7/13/2018	N	8/28/2018	0	AZK
B-3W	C3A1E71	C3B1H7	0.23	Modified A	6/20/2018	7/11/2018	N	8/28/2018	0	AZK
B-3W	C3A1F81	C3B1H8	0.23	Modified A	6/19/2018	7/10/2018	Y	8/29/2018	0	AZK
B-3W	C3A1G91	C3B1H9	0.23	Modified A	6/18/2018	7/6/2018	Y	9/12/2018	0	AZK

Unit	Dataset ID	Grid ID	Size Acre	Category	DGM Date	Geo Data Processed & Submitted	Selected for QC Reprocessing	Date Geo Data QC Complete	Number of QC Targets	QC Complete Initials
B-3W	C3A1H01	C3B1I0	0.22	Modified A	6/14/2018	7/2/2018	N	9/12/2018	0	AZK
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B-3W	C3A1J61	C3B1I6	0.23	Modified A	6/21/2018	7/13/2018	N	8/28/2018	0	AZK
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B-3W	C3A1F81	C3B1I8	0.23	Modified A	6/19/2018	7/10/2018	N	8/29/2018	0	AZK
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B-3W	C3A1E71	C3B1J7	0.23	Modified A	6/20/2018	7/11/2018	N	8/28/2018	0	AZK
B-3W	C3A1F81	C3B1J8	0.23	Modified A	6/19/2018	7/10/2018	N	8/29/2018	0	AZK
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B-3W	C3B2D41	C3B2D3	0.23	Modified A	6/12/2018	6/26/2018	Y	9/7/2018	0	AZK
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Unit	Dataset ID	Grid ID	Size Acre	Category	DGM Date	Geo Data Processed & Submitted	Selected for QC Reprocessing	Date Geo Data QC Complete	Number of QC Targets	QC Complete Initials
B-3W	C3B1B41	C3C1A3	0.11	Modified A	6/27/2018	7/18/2018	N	8/18/2018	0	AZK
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B-3W	C3B1A51	C3C1A5	0.23	Modified A	6/25/2018	7/16/2018	N	8/18/2018	0	AZK
B-3W	C3A1J61	C3C1A6	0.23	Modified A	6/21/2018	7/13/2018	Y	8/28/2018	0	AZK
B-3W	C3A1E71	C3C1A7	0.23	Modified A	6/20/2018	7/11/2018	N	8/28/2018	0	AZK
B-3W	C3A1F81	C3C1A8	0.23	Modified A	6/19/2018	7/10/2018	N	8/29/2018	0	AZK
B-3W	C3A1G91	C3C1A9	0.10	Modified A	6/18/2018	7/6/2018	N	9/12/2018	0	AZK
B-3W	C3B1B41	C3C1B4	0.03	Modified A	6/27/2018	7/18/2018	N	8/18/2018	0	AZK
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B-3W	C3A1E71	C3C1B7	0.23	Modified A	6/20/2018	7/11/2018	N	8/28/2018	0	AZK
B-3W	C3A1F81	C3C1B8	0.20	Modified A	6/19/2018	7/10/2018	N	8/29/2018	0	AZK
B-3W	C3A1G91	C3C1B9	<0.01	Modified A	6/18/2018	7/6/2018	N	9/12/2018	0	AZK
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B-3W	C3A1F81	C3C1C8	0.12	Modified A	6/19/2018	7/10/2018	N	8/29/2018	0	AZK
B-3W	C3A1E71	C3C1D7	<0.01	Modified A	6/20/2018	7/11/2018	N	8/28/2018	0	AZK
B-3W	C3A1F81	C3C1D8	0.01	Modified A	6/19/2018	7/10/2018	N	8/29/2018	0	AZK

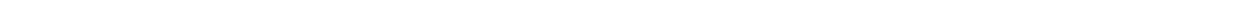
\* Modified Category A (towed array): As detailed in [Section 2.3](#), a lane spacing of 2 ft. is to be used for the towed array. 95% (or greater) of the lane spacing is to be at the project design lane spacing of 2 ft. 99.5% of the lane spacing is to be at 3 ft. No unexplained data gaps.

Category B (person-portable): As detailed in the MEC QAPP (KEMRON, 2016), a lane spacing of 2.5 ft. is to be used for the person-portable system. 95% (or greater) of the line spacing is to be at the project design line spacing of 2.5 ft. 98% (or greater) of the line spacing is to be at 3 ft.

\*\*DGM data (10 % per data set or grid) is required to be reprocessed by the QC Geophysicist in accordance with GEO SOP 8 of the MEC QAPP (KEMRON, 2016). Reprocessing of selected DGM datasets verified proper functioning of the DGM system and proper processing and analysis of the DGM data.

*Appendix E*

*USACE DGM QA Approval and Discussion*





**FORMER FORT ORD, CALIFORNIA  
UNIT B-3W  
QUALITY ASSURANCE REPORT:  
DIGITAL GEOPHYSICAL OPERATIONS**



**PREPARED BY  
GEOLOGY SECTION  
SACRAMENTO DISTRICT  
U.S. ARMY CORPS OF ENGINEERS**

**PREPARED FOR  
FORT ORD BASE REALIGNMENT AND CLOSURE (BRAC) OFFICE**

**OCTOBER 2018**

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## **1.0 INTRODUCTION**

This report covers the Quality Assurance (QA) processes conducted by the U.S. Army Corps of Engineers (USACE) with respect to the collection, processing, and evaluation of digital geophysical data collected by KEMRON Environmental Services, Inc (KEMRON). The field work was performed in Unit B-3W. Work was performed under WERS contract No. W912DY-10-D-0027, Site-Specific Work Plan, BLM Area B. The field protocols, database management, and QA reviews were based on a combination of methods previously used in other units and described in the UFP-QAPP Volume II Appendix A, along with additional procedures necessary for ensuring compliance with the WERS MMRP contract and the standard operating procedures performed by KEMRON's subcontractors GILBANE and NAEVA. USACE QA verified that KEMRON had an adequate Quality Control (QC) program in place and that data collected in Unit B-3W were in accordance with project Data Quality Objectives (DQOs) and Measurement Quality Objectives (MQOs), as established in the UFP-QAPP (KEMRON, 2016). Unit B-3W included areas recommended for subsurface removal and were collected in their entirety to meet Category A data.

### **1.1 Site details**

Unit B-3W is located in the western portion of BLM Area B, as depicted in Figure 1. The area is bounded by Eucalyptus Road on the southwest, MRS 16 on the southeast, Parker Flats Road on the northeast, and ESCA property on the northwest. Unit B-3W encompasses a total of approximately 63 acres. Currently, there are no existing trails within B-3W. During the July 2018 joint inspection by the Army and BLM, BLM identified a new trail alignment that will undergo a subsurface MEC removal to depth. Additionally, a 100-foot buffer area was identified for subsurface MEC removal along the northwest border of Unit B-3W, where Unit B-3W shares a border with ESCA property.

Approximately 19 acres, primarily in the western portion of B-3W, were not surveyed with DGM due to the presence of steep terrain and dense stands of large, mature manzanita trees. This area is inaccessible to the towed DGM array and the dense tree canopy renders person portable GPS unusable. Future changes to the trail alignment are not expected by the BLM in these areas.

Clean-up operations pertinent to DGM activities were initiated with a vegetation clearance followed by an instrument aided surface removal. During vegetation clearance and surface clearance, a total of 37 MEC items were removed.

According to the Installation-Wide Multispecies Habitat Management Plan (HMP) for Fort Ord (USACE 1997), the site will be used as an undeveloped habitat reserve. BLM Area B is mostly covered by maritime chaparral and grassland habitats. The terrain in the BLM Area B is dominated by rolling hills with elevations ranging from 720-900 ft. above sea level (ASL). These hills are composed of sand associated with Pleistocene aged sand dunes that may be as thick as 250 ft.

## **2.0 QA ACTIVITIES**

### **2.1 Data Collection Methods**

Production geophysical data were collected using Geonics EM-61MKII electromagnetic sensors in a multi-coil configuration (towed array) throughout most of the site. The EM-61MKII is a time-domain electromagnetic sensor that generates an electromagnetic pulse, inducing eddy currents within the subsurface. During the off period of the EM pulse, the eddy current decay produces secondary electromagnetic fields within both ferrous and non-ferrous metallic objects. These secondary electromagnetic fields are received and recorded over four averaged time gates per data collection interval (10Hz).

Data were collected either as individual grids or in grid blocks of variable size consisting of multiple grids. All data collected met modified Category A line spacing requirements, with 95% not to exceed a lane spacing of 2 ft. and 99.5% not to exceed a lane spacing of 3 ft. As stated in the MEC Procedures Supplement, the purpose and objective for the Category A DGM surveys is to obtain high quality DGM data in order to pick targets for subsurface removal. The modified Category A lane spacing requirement of 99.5% not to exceed 3 ft. is sufficient to achieve the intent of Category A lane spacing and prevents the unnecessary collection of small data gaps that have no impact on target selection. The Unit B-3W Site Specific Work Plan (SSWP) requires DGM data to be collected to Category B standards. Unit B-3W DGM was collected to modified Category A standards due to the planned subsurface removal in the 100-foot buffer zone and in support of establishing BLM trails in the unit.

Obstacles and issues with terrain precluded 100% coverage and approximately 19 acres of Unit B-3W were either inaccessible due to the presence of large trees or determined by UXO Safety to be inaccessible to DGM survey due to steep terrain. All data gaps were appropriately documented in the obstacle files submitted with DGM packages. Figure 2 of this QA report depicts the full DGM dataset for Unit B-3W.

The 100-foot buffer and the new trail alignment were identified for approximately 6.57 acres of subsurface removal in Unit B-3W. Targeted DGM subsurface removal has not been completed in Unit B-3W and therefore no USACE QA DGM data were collected. Following completion of subsurface removal in the trails and 100-foot buffer area, the USACE will collect a minimum of 3-5% QA DGM data over the intrusive investigation areas post-excavation to confirm no anomalies remain.

### **2.2 Field Oversight**

Field oversight was performed intermittently throughout the project by both the USACE Project Geophysicist and the OESS. Appropriate field procedures were reviewed and found to be in compliance. Under the WERS Contract No. W912DY-10-D-0027, NAEVA is subcontracted to collect the geophysical data.

## 2.3 Geophysical System Verification

Under the WERS contract, USACE and KEMRON fully incorporated the physics based Geophysical System Verification (GSV) approach as described in the July 2009 ESTCP report (ESTCP, 2009) and supported by EM 200-1-15. GSV includes two methods for providing QA/QC: blind seeding and the instrument verification strip (IVS). IVS data results were recorded on daily QC submittals attached as PDF files to the grid blocks. Data were reviewed by the QA Geophysicist to ensure all MQOs were achieved. The QA data review process is described in section 2.4 and a summary of MQOs for towed array DGM operations is given in Table 1. Examples of daily IVS data results for Unit B-3W are shown in Figures 3-4. Further details regarding MQOs are provided in the UFP-QAPP (KEMRON, 2016).

Production data required the GSV blind seeds placed throughout Unit B-3W, as documented in the UFP-QAPP. By placing blind seeds at an average rate of one per day, the instrument functionality can be tested on a daily basis. Any failures to detect a blind seed could be indicative of an issue with data collection. All blind seeds were small industry standard objects buried at six inches below ground surface. The blind seeds were placed by the QC Geophysicist. All blind QC seeds were detected and both the responses and positioning were within the requirements of the MQOs and SOPs. Table 2 summarizes the QC seed results for Unit B-3W.

## 2.4 Digital Data Review

A review of digital geophysics data by the USACE was performed to monitor the effectiveness of data processing and consistency of data delivery. Issues that were reviewed in these data included:

- 1) Missing survey lines within a grid (interline gaps)
- 2) Point-to-point data gaps along survey lines
- 3) Bowing out of survey lines beyond 50% of survey line spacing, unless otherwise collected
- 4) Unreasonable data “spikes”
- 5) Data incongruity across survey grids (Data levels in one grid are not reasonably compatible with data levels in neighboring grids)
- 6) Inadequate data density along survey traverse
- 7) Lack of accurate, precise locations; survey line orientation
- 8) Inadequate/incomplete site survey coverage
- 9) Missing, incomplete, or noncompliant instrument standardization checks
- 10) Completeness of file header information and supporting documentation
- 11) Consistent IVS and GSV results supporting the data quality objectives

To accomplish this, all raw and processed data files were checked by the USACE to ensure that KEMRON followed an appropriate and informative naming convention reflecting the grids surveyed as outlined in the EM 200-1-15. The USACE checked that KEMRON managed the field and processed data in a professional manner, including organization, daily maintenance, and complete documentation. This focused on a review of header files on the

pre-processed data (data that has been merged into a single file and synchronized with the GPS data) and processed data to verify that dates were consistent, systems and system sampling parameters were identified, project name and contractor was listed, and all column headers were included and defined. KEMRON also delivered supporting summary sheets that further documented field parameters and processing. All of the summary sheets were reviewed for completeness, verification of calibration data, and consistency to the electronic data file headers.

In order to make the above process more efficient, a grid tracking spreadsheet located in the Unit B-3W folder on the FTP site was updated weekly and allowed for the QC Geophysicist and USACE QA Geophysicist to document their verification of each deliverable. Minor issues such as corrupt or incomplete zip files were addressed within the table and via QC report deliverables. The final excel file will be maintained within the Final Data Submittal QC folder on the Fort Ord server.

The procedure for reprocessing and projecting the pseudo-color maps of the DGM modified Category A data included starting with a 100% review of the data in Geosoft Oasis Montaj to include re-leveling and re-gridding. These digital data were imported into Geosoft for the generation of pseudo-color maps that were then exported as a georeferenced geotif.

Overall, the general QA digital data review consisted at a minimum of:

- 1) Creating a processed database
- 2) Importing XYZ data
- 3) Calculation of sum channel
- 4) Generating a grid (0.25 ft. cell size and blanking distance of 2 ft.) of sum channel
- 5) Plotting the sum channel
- 6) Plotting a symbol cover for the track lines (view coverage)
- 7) Exporting the plots to geotifs
- 8) Importing the geotifs into a GIS

## **2.5 Corrective Action Request**

No corrective action requests were issued for data collected in Unit B-3W, however one minor item is worth noting. IVS seed item IVS78 exhibited a response above the established MQO during the afternoon IVS survey on 05/25/2018 (Figure 3). The QC geophysicist noted the response in the QC report and identified this as an isolated response with no effect on the data quality. The USACE QA geophysicist reviewed the daily QC and production data and confirmed that this was an isolated response. All other IVS item responses and offsets, QC tests, and blind QC seed MQOs were met for that data deliverable, confirming there was no impact on the usability of the DGM data. No corrective action was issued.

### **3.0 CONCLUSIONS**

QA activities by the Government verified KEMRON had an adequate QC program in place and that data collected within Unit B-3W are sufficient and in accordance with the project DQOs and MQOs. Furthermore, all data in Unit B-3W meet Category A standards.

#### **4.0 REFERENCES**

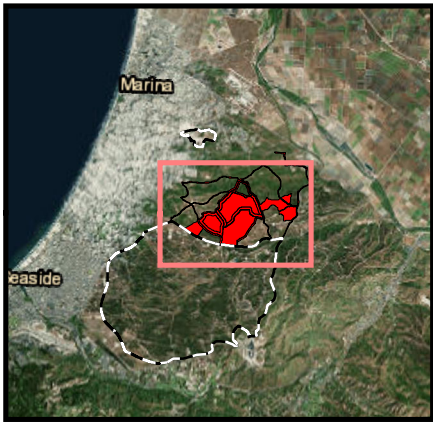
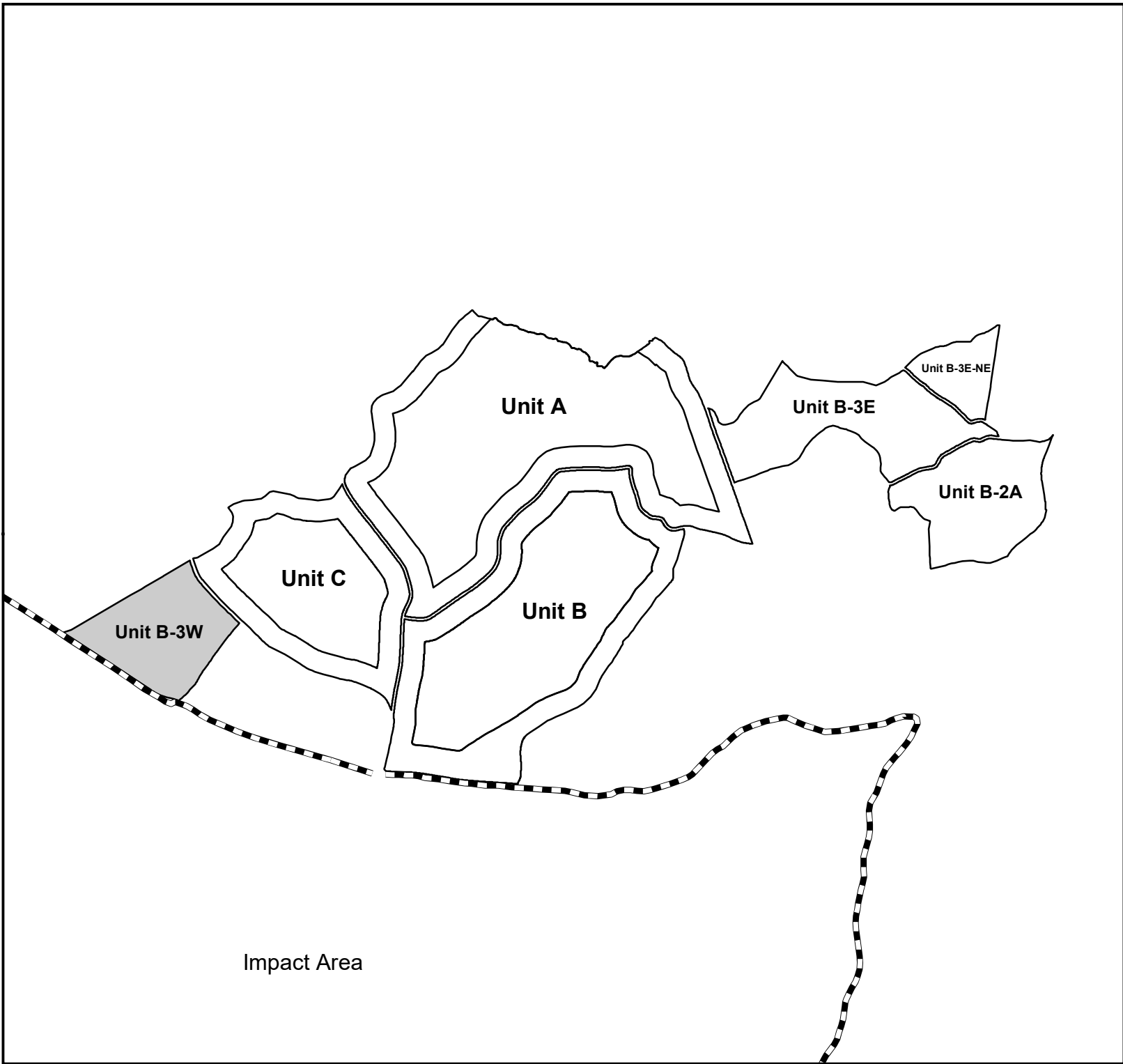
ESTCP, 2009. *Geophysical System Verification (GSV): A Physics-Based Alternative to Geophysical Prove-Outs for Munitions Response*. July.

KEMRON, 2016. *Final, Quality Assurance Project Plan, Former Fort Ord, California, Volume II, Appendix A, Munitions and Explosives of Concern Remedial Action*. December. (OE-0884A)



USACE, 1997. *Installation-Wide Multispecies Habitat Management Plan for Former Fort Ord, California (HMP)*. April. With technical assistance from Jones and Stokes, Sacramento, California. (BW-1787)




## 5.0 FIGURES

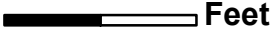


**Legend**

-  Unit\_B-3E
-  Impact Area boundary

N



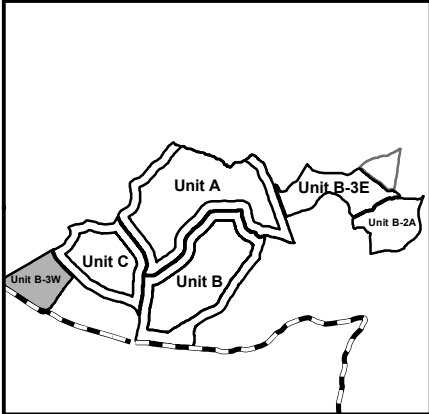
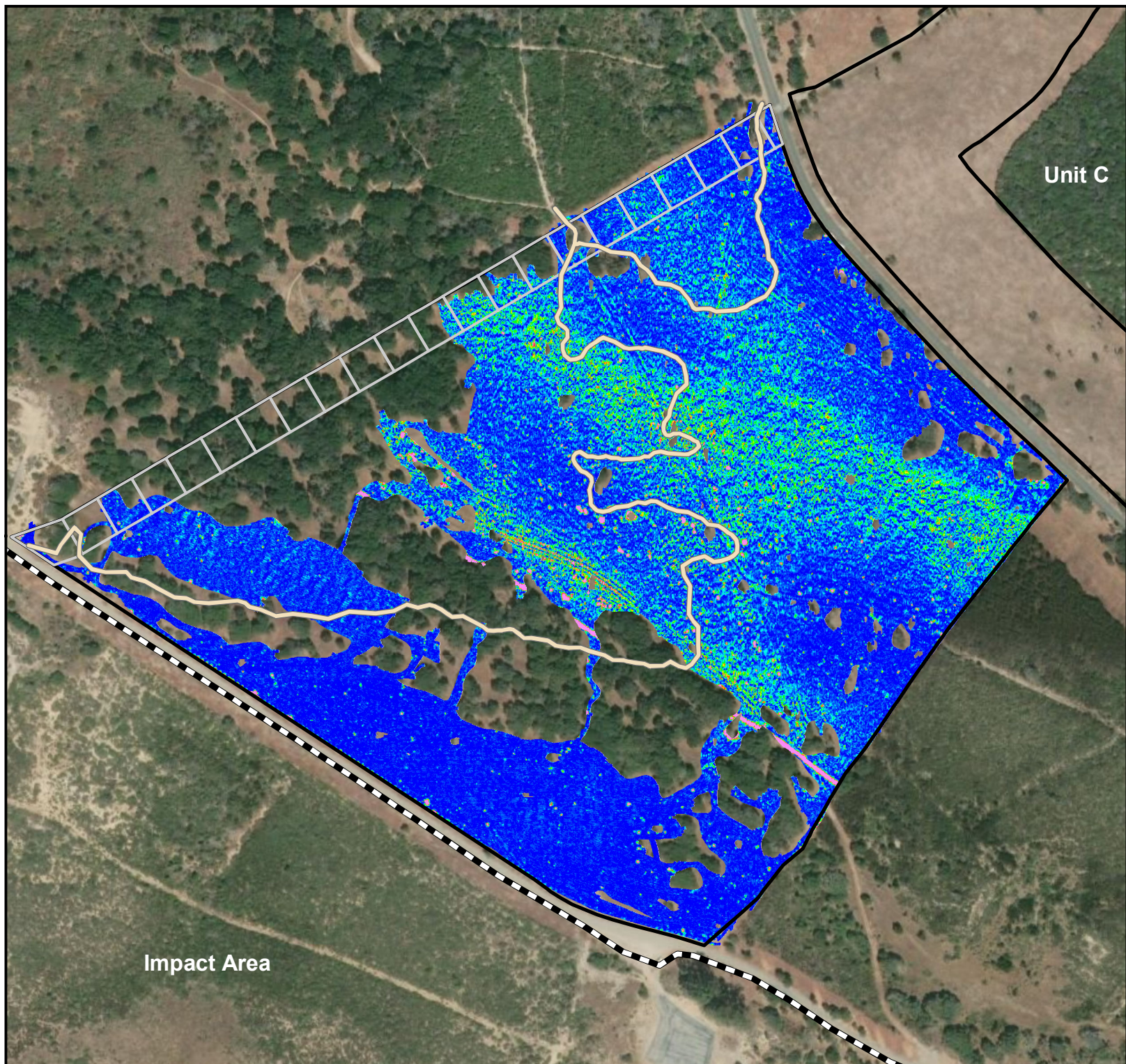
 Feet  
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 U.S. Army Corps of Engineers  
 Sacramento District




**Figure 1**

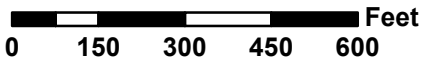
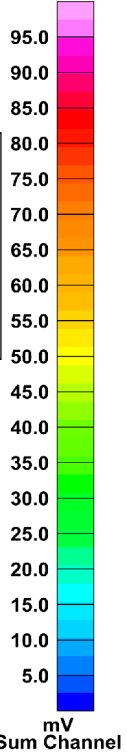
BLM Area B Remedial Work Areas  
Former Fort Ord, CA





**Legend**

-  Trails
-  100\_ft\_buffer
-  Fence Line



 U.S. Army Corps of Engineers  
Sacramento District

**Figure 2**

Unit B-3W DGM data  
Former Fort Ord, CA



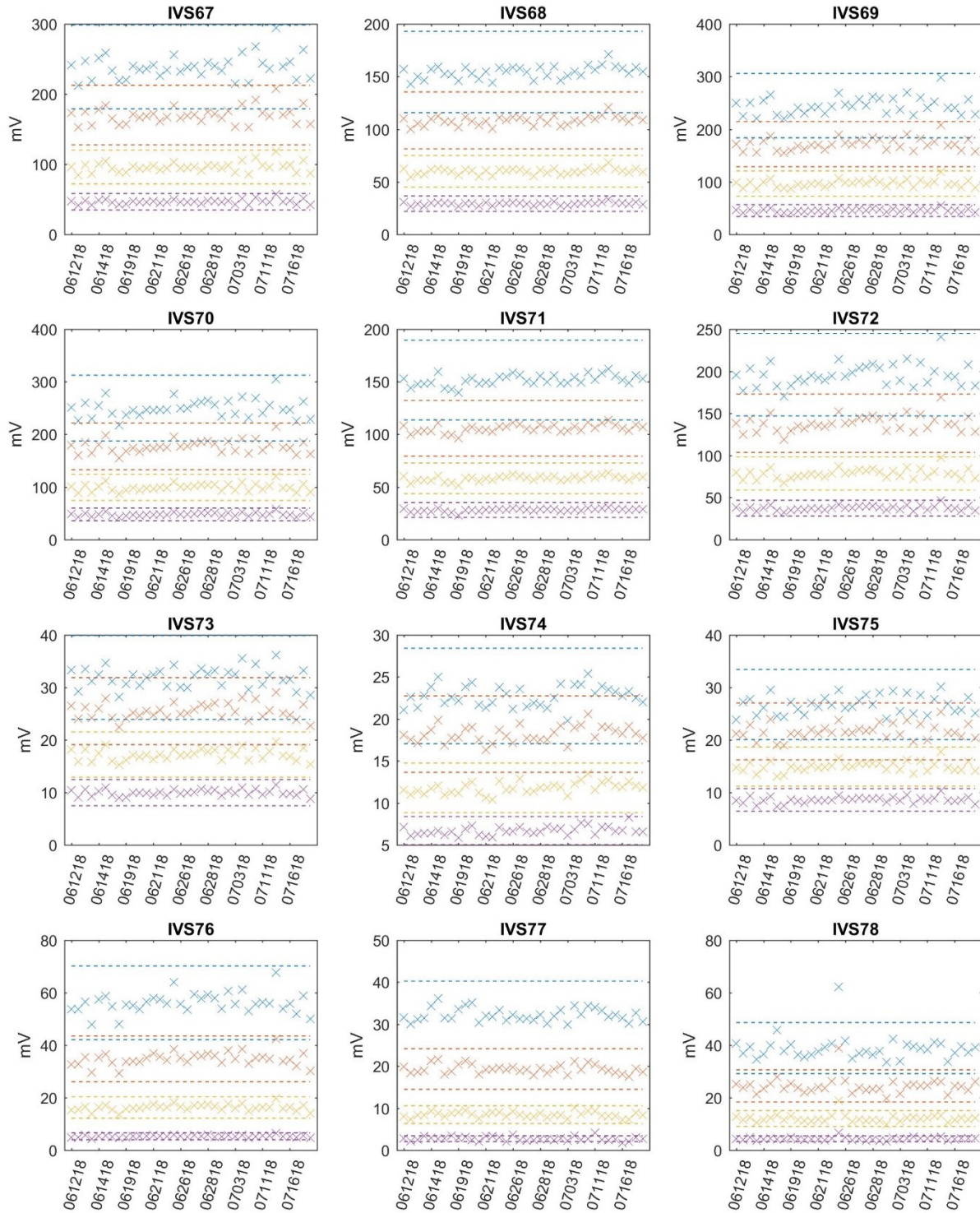


Figure 3. DGM response of IVS items for Unit B-3W for each survey day. X symbols represent peak anomaly response for Channel 1 (blue), Channel 2 (red), Channel 3 (yellow), and Channel 4 (purple) for each IVS item. Dashed lines represent the allowable variability ( $\pm 25\%$  of predicted response) established in WS #22. IVS78 response above established MQO is discussed in section 2.5 of the text.

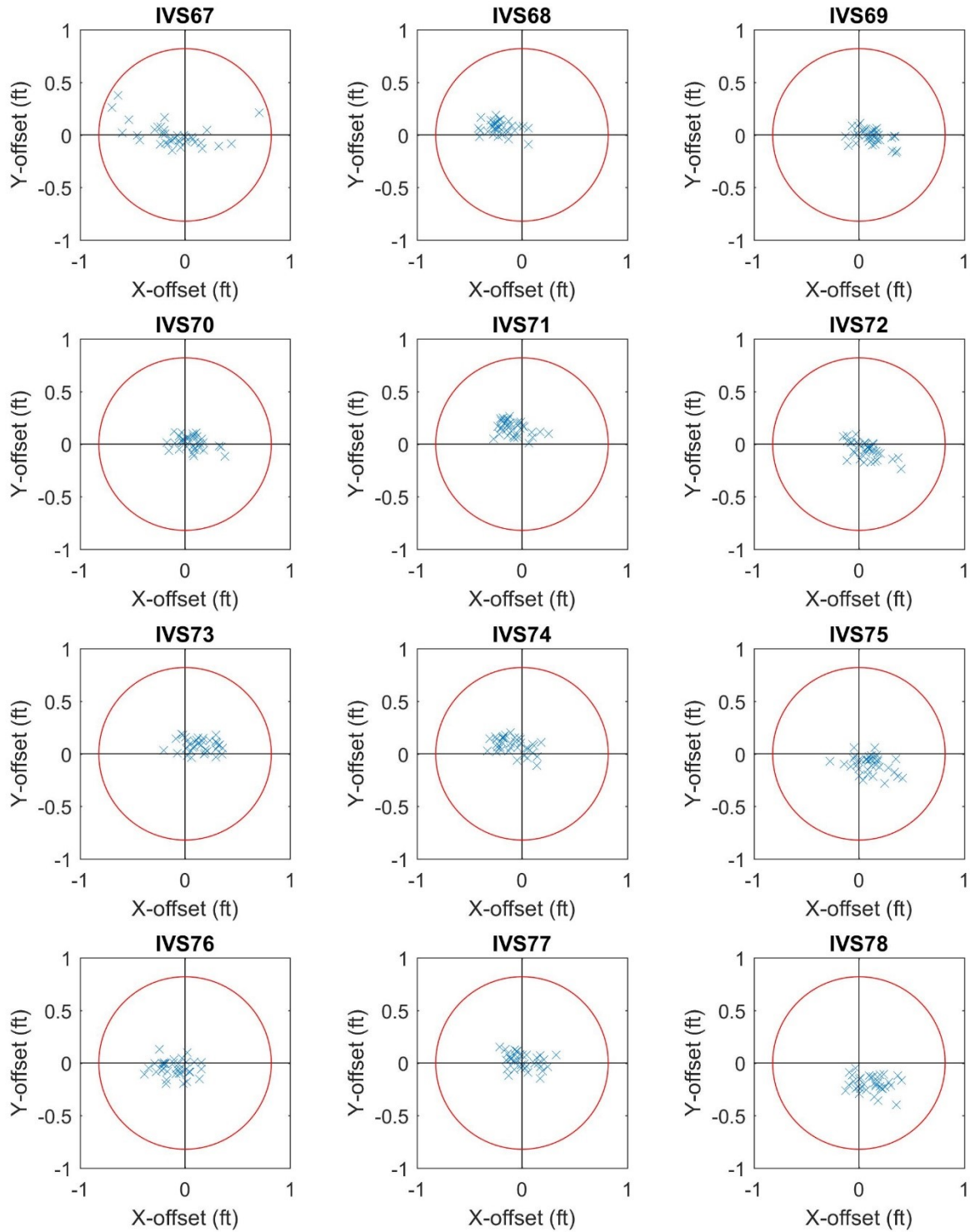


Figure 4. Daily IVS positioning results for Unit B-3W. Blue X's show the offset between picked DGM anomaly and the IVS ground truth. Red circle shows maximum acceptable offset (0.82 ft.) established in WS #22.

## 6.0 TABLES

Data Type	Data Quality Indicator (DQI)	QC Sample and/or Activity to Assess Measurement Performance	Measurement Quality Objective (MQO)	Frequency	Consequence of Failure (a)
Cable Shake Test	Sensitivity	Instrument Response Tests at the IVS	Cable shake test: 98% of response values will not exceed +/- 2 mV when system cables are moved (for all EM61MK2 channels)	Once Daily (AM)	Do not proceed with DGM field activities until failure is resolved and cable shake test has passed.
Personnel Test	Sensitivity	Instrument Response Tests at the IVS	Personnel test (PP): 98% of response values (due to proximity of data collection personnel) will not exceed +/- 2 mV (for all EM61MK2 channels).	Once Daily (AM)	Do not proceed with DGM field activities until failure is resolved and personnel test has passed.
Tow Vehicle Test	Sensitivity	Instrument Response Tests at the IVS	Tow vehicle test (towed array): 98% of response values (due to elevated tow vehicle RPM) will not exceed +/- 2 mV (for all EM61MK2 channels).	Once Daily (AM)	Do not proceed with DGM field activities until failure is resolved and tow vehicle test has passed.
Static repeatability (instrument functionality) (b)	Accuracy/Precision	Instrument Response Tests at the IVS	<p>98% of the daily static background response values (no test object) will not exceed +/- 2 mV of expected baseline response (for all EM61MK2 channels). (d)</p> <p>98% of the response values to the standard spike test item (a small ISO fixed at an orientation and distance from the sensor to provide an approximately 100 mV response on channel 2 of the EM61MK2) will not exceed +/- 10% of the expected baseline response (for all EM61MK2 channels). (d)</p>	Twice Daily (AM/PM)	<p>If failure occurs during the AM static test, do not proceed with DGM field activities until failure is resolved and AM static test(s) have passed.</p> <p>If failure occurs during PM static test, the day's data fails unless BSI is mapped that day with repeatable anomaly characteristics (see dynamic detection repeatability (GSV blind seeding)).</p>

Along track sampling	Completeness	DGM Data Set or Grid	98% <= 0.65 ft. (20 cm)	By grid or dataset (c)	Submittal fails.
Coverage	Completeness	DGM using GPS Positioning: DGM Data Set or Grid	<p>Category A (towed array): A lane spacing of 2 ft is to be used for the towed array. 95% (or greater) of the lane spacing is to be at the project design lane spacing of 2 ft. 100% of the lane spacing is to be at 3 ft. No unexplained data gaps.</p> <p>Category B (towed array): A lane spacing of 2 ft is to be used for the towed array. 95% (or greater) of the lane spacing is to be at the project design lane spacing of 2 ft. 98% (or greater) of the lane spacing is to be at 3 ft.</p>	By grid or dataset (c)	Data gaps must be filled in before submittal is accepted.
Dynamic detection repeatability (IVS)	Accuracy/Precision	Instrument Response Tests at the IVS	<p>98% of the dynamic background response values during the daily IVS survey will not exceed +/- 3 mV of expected baseline response (for all EM61MK2 channels). (d)</p> <p>Instrument response to each IVS item will be within +/- 25% or +/- 2 mV( whichever is greater) of the expected baseline response (for all EM61MK2 channels). The baseline response for each IVS item will be the average of the instrument responses to that item measured during the first week of IVS surveys. (d)</p>	Twice Daily (AM/PM)	<p>If failure occurs during the AM IVS test, do not proceed with DGM field activities until failure is resolved and AM dynamic IVS test(s) have passed.</p> <p>If failure occurs during PM IVS test, the day's data fails unless BSI is mapped that day with repeatable anomaly characteristics (see Dynamic Detection Repeatability (GSV blind seeding)).</p>
Dynamic detection repeatability (GSV blind seeding)	Sensitivity/Accuracy/Precision/Completeness	DGM Data Set or Grid	All BSIs must be located. Peak response >75% of maximum expected BSI response. (d)	1 per day per team (# per acre to be based on production rate)	Submittal fails.



Dynamic positioning repeatability (IVS)	Accuracy/Precision	Instrument Response Tests at the IVS	Position offset of IVS targets < 25 cm.	Twice Daily (AM/PM)	<p>If failure occurs during the AM IVS test, do not proceed with DGM field activities until failure is resolved and AM dynamic IVS test(s) have passed.</p> <p>If failure occurs during PM IVS test, the day's data fails unless BSI is mapped that day with repeatable anomaly characteristics (see Dynamic Positioning Repeatability (GSV blind seeding)).</p>
Dynamic positioning repeatability (GSV blind seeding)	Sensitivity/Accuracy/Precision/Completeness	DGM Data Set or Grid	<p>90% positioning offset is <math>\leq 25 \text{ cm} + 1/2 \text{ line/sensor spacing}</math> and 100% is <math>\leq 35 \text{ cm} + 1/2 \text{ line/sensor spacing}</math> for digital positioning systems.</p> <p>For Towed Array DGM using 2 ft line spacing (Category A and Category B) and RTK-GPS:  90% <math>\leq 22 \text{ inches}</math>  100% <math>\leq 26 \text{ inches}</math></p>	1 per team per day (# per acre to be based on production rate - same as dynamic detection repeatability (GSV blind seeding)).	Submittal fails.
Velocity	Completeness	DGM Data Set or Grid	95% of all geophysical measurements with the EM61MK2 will be collected at a speed not to exceed 4 miles per hour (1.8 meters per second)	By grid or dataset (c)	Submittal fails.
Target Selection	Completeness	DGM Data Set or Grid	All dig list targets are selected according to project design as detailed in the SSWP	By grid or dataset (c)	Submittal fails.
Geodetic equipment functionality	Accuracy/Precision	GPS Function check at IVS	GPS position checks will not exceed +/- 3 inches (7.6 cm) from the established baseline position.	Once Daily (AM)	Do not proceed with DGM field activities until failure is resolved and positional check has passed.

Geodetic accuracy	Accuracy/Precision	GPS Function Check of Positional monuments used for RTK-GPS base station(s)	Project control points that are used more than once must be repeatable to within 5 cm (e).	For points used more than once, occupation will be repeated (f) for each point used, either monthly (for frequently used points) or before re-use (if used infrequently) (g).	Reset points not located at original locations or resurvey point.
Verify Field Work Methods	Accuracy/Precision	QC Geophysicist will monitor field team work methods.	Verify work methods are being performed in accordance with MEC QAPP, SOPs, and SSWP.	Daily	Stop work. Generate an RCA, CAR, and CAP (as necessary). Implement corrective actions.
DGM Data Reprocessing	Sensitivity/Accuracy/Precision/Completeness	10% of DGM Data Set or Grid	DGM data will be reprocessed by the QC Geophysicist in accordance with GEO SOP 8 (Geophysical QC).	Daily	Stop work. Generate an RCA, CAR, and CAP (as necessary). Implement corrective actions.

Table 1. DGM MQO table for the towed array system.

- (a) All failures require an RCA.
- (b) Duration of data collection is 1 minute for background, 1 minute for spike and 1 minute for second background measurement. All static repeatability is to be compared to original readings to ensure instrument is consistent throughout the project.
- (c) The terms grid and dataset refer to logical groupings of data or data collection event. Logical groupings of data are contiguous areas mapped by the same instrument and in the same relative timeframe. These can be grids, acres, or some other unit of area. A data collection event is similar to logical groupings of data but refers to data collected over a contiguous timeframe, such as morning, afternoon, battery life, or some other measure of contiguous time.
- (d) For static background, the expected baseline mV response is to be based on an average of all the static background readings collected during the first four days (or first week). For static spike the expected baseline peak mV response is to be based on an average of all the static spike readings collected during the first four days (or first week). For the IVS background, the expected baseline mV response is to be based on an average of all the IVS background readings for the first four days (or first week). For the IVS spike, the expected baseline mV response is to be based on an average of all the IVS spike readings for the first four days (or first week). For GSV BSI items the baseline mV response will be determined by recording an additional survey line that is offset ½ of the planned survey line spacing (1 ft) from the center of the seeded IVS line. This offset line will be recorded twice daily (am/pm) during the first four days (or first week) of DGM operation with the PP system(s) and the baseline mV response to be used for BSIs (for PP and towed array systems) will then be calculated by averaging all of the peak readings for each ISO at this 1 ft offset. Note that separate baselines will be generated and used for the PP and towed-array system static and IVS tests.
- (e) GPS base station coordinates that are currently being used are provided by USACE/BRAC.
- (f) Repeat occupation means demonstrate the control points being used can be recovered and reoccupied and that they have not moved more than the requirement specification. This can be accomplished using the same methodology used to initially tie the local network to a HARN, CORS, OPUS, or other recognized network, or it can be accomplished by other means that achieve this requirement.

- (g) An example of frequently used control points would be points used as RTK DGPS base stations. Infrequently used points could be those used during GPS operations where the control point was used during mapping and then again at some later time for reacquisition and QC statistical sampling. Infrequently used points also could include grid corners; they are used for line and fiducial positioning and then reused for reacquisition or QC statistical sampling.

Note: Although it is highly unlikely, should an area originally categorized and seeded for Category B (i.e. seeded for DGM at a rate of approximately 1 Blind Seed Item (BSI) for every 4 acres and not planned for intrusive investigation) then be upgraded to Category A after DGM has been completed (i.e. should be seeded at a rate of 1 BSI per dig team per day and planned for intrusive investigation), that if the dig team does not have 1 BSI per dig team per day that this would not constitute a QC failure because the density of BSIs installed would have been based on the original selection of this area as Category B. The rationale for stating this scenario is that once the DGM data has been collected, it is impossible to add additional BSIs (i.e. add additional anomalies to the previously collected DGM data). If this scenario does occur, it has been identified in the QAPP and discussed in relation to QC objectives and their pass/fail criteria.

Seed ID	Grid	Reported Sum Response (mV)	Response Passes?	Total Offset (in)	Positioning Passes?
B3W016G	C2A0J4	392.14	Yes	11.86	Yes
B3W007G	C2B0E0	254.20	Yes	12.75	Yes
B3W011G	C3B1E5	448.11	Yes	11.94	Yes
B3W006G	C3B1C1	497.02	Yes	9.72	Yes
B3W010G	C3B1G2	263.23	Yes	11.57	Yes
B3W005G	C3B1A3	449.72	Yes	7.21	Yes
B3W009G	C3B1I4	528.13	Yes	13.57	Yes
B3W008G	C3C1A6	399.63	Yes	9.67	Yes
B3W004G	C3A1J7	370.50	Yes	17.64	Yes
B3W003G	C3B1B8	326.64	Yes	8.64	Yes
B3W012G	C3B1H8	272.90	Yes	12.62	Yes
B3W001G	C3B2D3	491.37	Yes	16.54	Yes
B3W002G	C3B1C0	379.61	Yes	6.00	Yes

Table 2. Blind QC seed response and positioning results in Unit B-3W.

*Appendix F*

*Unit B-3W MEC Items Recovered*

Date Found	Item Number	Item Type	Qty	Description	Operation
9/11/2017	C3B2E3-1-1	UXO	1	Projectile, 37mm, low explosive, MK I	Surface Removal
9/11/2017	C3B2F2-1-1	UXO	1	Projectile, 37mm, low explosive, MK I	Surface Removal
9/25/2017	C3B2E2-1-1	UXO	1	Projectile, 37mm, low explosive, MK I	Surface Removal
1/23/2018	C3A1G5-1-1	UXO	1	Flare, surface, trip, M49 series	Surface Removal
1/23/2018	C3A1H6-1-1	UXO	1	Grenade, hand, riot, CS, M7A3	Surface Removal
2/12/2018	C2B0F5-1-1	DMM	1	Cartridge, 40mm, practice, M781	Surface Removal
2/12/2018	C3A1F5-1-1	UXO	1	Flare, surface, trip, M49 series	Surface Removal
2/12/2018	C2B0F6-1-1	UXO	1	Projectile, 37mm, low explosive, MK I	Surface Removal
2/13/2018	C3A1G6-1-1	UXO	1	Fuze, grenade, hand, practice, M228	Surface Removal
2/14/2018	C3A1J7-1-1	UXO	1	Flare, surface, trip, M49 series	Surface Removal
2/15/2018	C3B1C2-1-1	UXO	1	Flare, surface, trip, M49 series	Surface Removal
2/20/2018	C2B0F7-1-1	UXO	1	Projectile, 37mm, low explosive, MK I	Surface Removal
2/26/2018	C3B1F3-1-1	UXO	1	Fuze, grenade, hand, M206 series	Surface Removal
2/27/2018	C3A1I3-1-1	UXO	1	Fuze, grenade, hand, practice, M205 series	Surface Removal
2/27/2018	C2B0H8-1-1	UXO	1	Projectile, 60mm, mortar, high explosive, M49 series	Surface Removal
2/27/2018	C2B0G8-1-1	UXO	1	Projectile, 60mm, mortar, high explosive, M49 series	Surface Removal
2/28/2018	C2A0J0-1-1	UXO	1	Fuze, grenade, hand, practice, M228	Surface Removal
2/28/2018	C2A0J0-1-2	UXO	1	Fuze, grenade, hand, practice, M228	Surface Removal
3/5/2018	C2A0F0-1-1	UXO	1	Fuze, grenade, hand, practice, M205 series	Surface Removal
3/5/2018	C2A0G0-1-1	UXO	1	Fuze, grenade, hand, practice, M228	Surface Removal
3/5/2018	C2A0I0-1-1	UXO	1	Fuze, grenade, hand, practice, M228	Surface Removal
3/5/2018	C2B0D9-1-1	DMM	1	Signal, illumination, ground, white star cluster, M18A1	Surface Removal
3/8/2018	C2B0E0-1-1	UXO	1	Projectile, 37mm, low explosive, MK I	Surface Removal
3/12/2018	C3C1B5-1-1	UXO	1	Projectile, 37mm, low explosive, MK I	Surface Removal
3/12/2018	C3C1A3-1-1	UXO	1	Signal, illumination, ground, M125 series	Surface Removal
3/13/2018	C3B1C5-1-1	UXO	1	Flare, surface, trip, M49 series	Surface Removal
3/15/2018	C3B1C8-1-1	UXO	1	Projectile, 37mm, low explosive, MK II	Surface Removal
3/19/2018	C3B1G6-1-1	DMM	1	Flare, surface, trip, M49 series	Surface Removal
3/21/2018	C3B1H9-1-1	DMM	7	Grenade, rifle, smoke, M23 series	Surface Removal
3/27/2018	C3B1B6-1-1	DMM	1	Flare, surface, trip, M49 series	Surface Removal
3/29/2018	C3B1A7-1-1	DMM	1	Fuze, grenade, hand, practice, M228	Surface Removal