

**Bureau of Land Management Area B  
Unit A  
Munitions and Explosives of Concern  
Remedial Action  
Technical Information Paper  
Former Fort Ord, California**

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*Prepared for*



**U.S. Army Corps of Engineers  
Sacramento District  
1325 J Street  
Sacramento, California 95814-2922**

*Prepared by*



**KEMRON Environmental Services, Inc.  
1359A Ellsworth Industrial Blvd.  
Atlanta, GA 30318  
404-636-0928**

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## **List of Acronyms**

AR	Administrative Record
ARAR	Applicable or Relevant and Appropriate Requirement
Army	United States Department of the Army
bgs	Below Ground Surface
BLM	United States Bureau of Land Management
BO	Biological Opinion
DGM	Digital Geophysical Mapping
DMM	Discarded Military Munitions
FWV	Field Work Variance
HMP	Habitat Management Plan
ISD	Insufficient Data
KEMRON	KEMRON Environmental Services, Inc.
lbs	Pounds
MD	Munitions Debris
MEC	Munitions and Explosives of Concern
OD	Other Debris
QA	Quality Assurance
QC	Quality Control
RA	Remedial Action
RD	Remedial Design
RI/FS	Remedial Investigation /Feasibility Study
ROD	Record of Decision
RRD	Range-Related Debris
RWA	Remedial Work Area
SSWP	Site-Specific Work Plan
TIP	Technical Information Paper
USACE	U.S. Army Corps of Engineers
USFWS	United States Fish and Wildlife Service
UXO	Unexploded Ordnance
WP	Work Plan

## 1.0 Introduction

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This Technical Information Paper (TIP) 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 A (Figure 1). The RAs within BLM Area B, Unit A occurred under the following documents:

- *Final Record of Decision Track 2 Bureau of Land Management Area B and Munitions Response Site 16 Former Fort Ord, California* [Track 2 ROD; 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* [RD/RA Work Plan (WP); KEMRON, 2017a];
- *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); and
- *FINAL BLM Area B – Units A, B, and C PRESCRIBED BURN PLAN* (Prescribed Burn Plan; Presidio of Monterey Fire Department, 2017).

In 2018, a prescribed burn was planned in Unit A. The burn prescription was not met; therefore, a burn could not occur. The required combination of weather and other factors to meet the burn prescription is described in the Prescribed Burn Plan (Presidio of Monterey Fire Department, 2017). This TIP documents the RAs that have been performed as part of the burn site preparation, and the subsurface MEC removal conducted along the existing trails within Unit A. Completion of the remaining RAs within Unit A is pending a prescribed burn in a future burn season.

### 1.1 Site Location

The BLM Area B SSWP (KEMRON, 2017b) identified Unit A as 324 acres; however, the northern boundary was subsequently revised. The total acreage of Unit A is now approximately 305 acres as shown in Figure 1. Unit A is bounded by West Machine Gun Flats Road to the south, Lions

Revenge Road to the north, Watkins Gate Road to the west, and Hennekens Ranch Road to the east ([Figure 1](#)).

## **1.2 *Applicable or Relevant and Appropriate Requirements***

Applicable or relevant and appropriate requirements (ARARs) were outlined in the Track 2 ROD (Army, 2017). The performance of this RA was in compliance with the ARARs outlined in that document.

## **1.3 *Summary of MEC Item Removed Prior to Remedial Action***

Items found during activities prior to the KEMRON RA are detailed in the *Final, Revision 2 Track 2 Remedial Investigation /Feasibility Study BLM Area B and MRS-16 Former Fort Ord, California* (BLM Area B RI/FS, Gilbane, 2015). These include 21 insufficient data (ISD<sup>1</sup>) item records, and 40 unexploded ordnance (UXO) item records ([Appendix A, Figure 2, and Table 1](#)). Work performed in approximately 18 acres in the southeast corner of Unit A (part of BLM Area B sub-area B-4) consisted of surface, 1-foot or 4-foot removal, as described in the BLM Area B RI/FS (Gilbane, 2015). These items were removed from depths of 0 inches to 16 inches below ground surface (bgs) and are identified in [Appendix A](#).

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<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 insufficient data (ISD). ISD items are conservatively considered as MEC in the Fort Ord Military Munitions Response Program.

Table 1. Unit A MEC Items Recovered Prior to Remedial Action

Description	DMM Qty	UXO Qty	ISD Qty
Flare, surface, trip, M49 series	0	4	0
Fuze, grenade (model unknown)	0	1	0
Fuze, projectile, point detonating, M8	0	1	0
Grenade, hand, illumination, MK I	0	1	0
Grenade, hand, smoke, M18 series	0	1	1
Mine, antitank, practice, M12 series	0	2	1
Mine, antitank, practice, M20	0	0	2
Projectile, 3inch, Stokes mortar, practice, MK I	0	18	12
Projectile, 60mm, mortar, high explosive, M49 series	0	8	0
Projectile, 60mm, mortar, practice, M50 series	0	2	0
Projectile, 81mm, mortar, high explosive, M43 series	0	1	2
Projectile, 81mm, mortar, practice, M43 series	0	1	0
Signal, illumination, ground, M125 series	0	0	1
Signal, illumination, ground, M126 series	0	0	1
Simulator, launching, antitank guided missile and rocket, M22	0	0	1
<b>Total Items Recovered</b>	<b>0</b>	<b>40</b>	<b>21</b>

Note: This is a summary table of the information provided in [Appendix A](#). These items were removed from depths that range from 0 inches to 16 inches bgs.

DMM: Discarded Military Munitions

mm: millimeter

## 2.0 Work Completed

KEMRON initiated field work in Unit A in July 2017 in accordance with the BLM Area B SSWP (KEMRON, 2017b). The scope of the Unit A RA included technology-aided surface MEC removal (surface MEC removal) and digital geophysical mapping (DGM) in the Unit A Remedial Work Area (RWA) following a prescribed burn, and subsurface removals on trails and other areas (to be selected). To date, work completed in Unit A included vegetation clearance ([Figure 3](#)) and surface MEC removal in burn containment line areas; and subsurface MEC removal along existing trails. The prescribed burn planned in 2018 for Unit A was not conducted. Lion’s Revenge Road was developed as part of burn preparation and was conducted with UXO construction support; no MEC was encountered during this work. As part of the burn preparation, areas just outside the RWA

were subjected to surface MEC removal (Figure 4). Table 2 shows the cumulative results for the work completed to date. KEMRON implemented quality control (QC) processes in accordance with the BLM Area B SSWP (KEMRON, 2017b). Quality assurance (QA) was provided by the U.S. Army Corps of Engineers (USACE).

Table 2. Unit A Cumulative Results

Parameter	Totals
Surface MEC removal acreage*	~132.4
Subsurface MEC removal acreage	~3.7
MEC items**	60
Total Estimated Munitions Debris (MD) Weight (lbs)	4,904
Total Estimated Range Related Debris (RRD) and Other Debris (OD) (lbs)	12,958

\*Areas outside of the RWA received surface MEC removal to support a prescribed burn.

\*\*Encountered during surface and subsurface MEC removal. Two subsurface items were recovered during the pond anomaly investigation as listed in Table 5.

The intrusive investigation of anomalies within Pond 41 is reported in *BLM Area B Track 2 Ponds Geophysical Anomaly Investigation Technical Information Paper Former Fort Ord, California* (BLM Area B Ponds TIP, KEMRON, 2019).

## 2.1 Vegetation Clearance

Vegetation clearance occurred in the containment line of the unit in order to support a planned prescribed burn. Vegetation clearance occurred in accordance with the BLM Area B SSWP (KEMRON, 2017b) and the Prescribed Burn Plan (Presidio of Monterey Fire Department, 2017). Figure 3 and Table 3 display Unit A’s vegetation clearance operations.

Table 3. Unit A Vegetation Clearance

Operation ID	Vegetation Clearance Type	Acres	Date
Containment Line for Units B and C	Mechanical	63.6	July 2017
	Manual	1.4	July 2017
Containment Line for Unit A	Mechanical	109.3	June – September 2018
Trails	Mechanical	3.5	January 2019
	Manual	0.2	January 2019



In support of burn preparations, vegetation was cut along Lions Revenge Road, Watkins Gate Road, West Machine Gun Flats Road, and Hennekens Ranch Road (Figure 3). The BLM Area B SSWP (KEMRON, 2017b) stated that vegetation would 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. Hand crews manually cleared the understory so that UXO personnel could conduct surface MEC removal in this area.

In January 2019, approximately 3.7 acres of vegetation was cut in the Unit A trails (Figure 3). Approximately 3.5 acres of vegetation was mechanically cut, and 0.2 acres of vegetation was manually cut.

## 2.2 Technology-Aided Surface MEC Removal

Surface MEC removal was conducted in grids shown in Figure 4 following vegetation cutting. In support of burn preparations for Units B and C, surface MEC removal was conducted between July and August 2017 (Figure 4 – gray). In support of burn preparations for Unit A, surface MEC removal was conducted between August to September 2018 (Figure 4 – orange and purple). UXO personnel with Schonstedt magnetometers used search lanes approximately five feet in width. The QA and QC results are included in Appendix B. Table 4 presents a summary of the completed surface MEC removal.

Table 4. Unit A Surface MEC Removal

Operation ID	Acres	Date
Containment Line* (Figure 4 – gray)	54.6	July – August 2017
Containment Line (Figure 4 – orange)	62.3	August 2018
North of Lions Revenge Road (Figure 4 – purple)	15.5	September 2018

\*Cut for prescribed burns in Unit B and C.

## 2.3 Subsurface MEC Remediation

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.

Subsurface removal was conducted in 2019 in the existing trails in Unit A. The trail network is subject to adjustment after conducting a prescribed burn and the remaining RAs within Unit A.

### **2.3.1 Trails**

The Army completed a 12-foot wide (6 feet on either side of the trail centerline) subsurface MEC removal to depth within the existing trail alignments, in coordination with BLM ([Figure 4](#) - green portions). On Trails 65, 66, 67, 68, and 69, the subsurface MEC removal was conducted through an intrusive investigation using a hand-held metal detector and a Geonics EM61-MK2A in analog mode. Subsurface MEC removal met the measurement quality objectives and the QC/QA practices outlined in the BLM Area B SSWP (KEMRON, 2017b). No QC failures occurred within Unit A. USACE did not issue any corrective action requests. The QC and QA results are included in [Appendix C](#).

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

The UXO personnel managed items encountered and removed during RAs in a manner consistent with the BLM Area B SSWP (KEMRON, 2017b) and the *Final Quality Assurance Project Plan Former Fort Ord, California Volume II Appendix A Munitions and Explosives of Concern Remedial Action* (KEMRON, 2016). The UXO personnel recovered 60 MEC items during the RA under the BLM Area B SSWP (KEMRON, 2017b). These include 32 DMM item records and 28 UXO item records ([Figure 4](#), and [Table 5](#)). During subsurface MEC removal, 23 items were removed (21 DMM items from one location and 2 UXO items) Two MEC items were recovered during the pond anomaly investigation and are documented in the BLM Area B Ponds TIP (KEMRON, 2019). The MEC items (DMM and UXO) and MD recovered did not indicate the presence of munitions with sensitive fuzes. [Table 2](#) provides a summary of MD as well as RRD and OD removed as part of the RA. [Figure 5](#) shows MD weights per remedial work grid.

Table 5. Unit A MEC Items Recovered During Remedial Action

Date	Unique ID	Qty	Description	Depth (inches)	Type	Operation
7/11/2017	2148166	1	Grenade, rifle, smoke, white phosphorous, M19 series	0	UXO	Surface MEC Removal
7/25/2017	2148116	1	Grenade, rifle, smoke, white phosphorous, M19 series	0	UXO	Surface MEC Removal
8/9/2017	2148225	1	Fuze, grenade, hand, practice, M205 series	0	DMM	Surface MEC Removal
8/9/2017	2148238	1	Fuze, grenade, hand, practice, M205 series	0	DMM	Surface MEC Removal
8/9/2017	2148058	1	Grenade, hand, smoke, M18 series	0	UXO	Surface MEC Removal
8/10/2017	2148069	1	Grenade, rifle, smoke, white phosphorous, M19 series	0	UXO	Surface MEC Removal
8/16/2017	2148298	1	Grenade, rifle, smoke, white phosphorous, M19 series	0	UXO	Surface MEC Removal
8/29/2017	2147872	1	Grenade, rifle, smoke, white phosphorous, M19 series	0	UXO	Surface MEC Removal
8/29/2017	2147947	1	Grenade, rifle, smoke, white phosphorous, M19 series	0	UXO	Surface MEC Removal
8/29/2017	2148008	1	Grenade, rifle, smoke, white phosphorous, M19 series	0	UXO	Surface MEC Removal
8/29/2017	2148110	1	Grenade, rifle, smoke, white phosphorous, M19 series	0	UXO	Surface MEC Removal
8/29/2017	2148132	1	Grenade, rifle, smoke, white phosphorous, M19 series	0	UXO	Surface MEC Removal
8/29/2017	2148161	1	Grenade, rifle, smoke, white phosphorous, M19 series	0	UXO	Surface MEC Removal
8/29/2017	2148240	1	Grenade, rifle, smoke, white phosphorous, M19 series	0	UXO	Surface MEC Removal
8/29/2017	2148263	1	Grenade, rifle, smoke, white phosphorous, M19 series	0	UXO	Surface MEC Removal
8/29/2017	2148049	1	Signal, illumination, ground, M52A1	0	UXO	Surface MEC Removal
8/29/2017	2148326	1	Signal, illumination, ground, M52A1	0	UXO	Surface MEC Removal
8/31/2017	2148308	1	Simulator, flash artillery, M110	0	UXO	Surface MEC Removal
7/30/2018	2153256	1	Flare, surface, trip, M49 series	0	UXO	Surface MEC Removal
8/2/2018	2153255	1	Simulator, projectile, airburst, M74 series	0	UXO	Surface MEC Removal
8/8/2018	2153262	1	Signal, illumination, ground, parachute, M19 series	0	UXO	Surface MEC Removal
8/13/2018	2153266	9	Projectile, 60mm, mortar, high explosive, M49 series	0	DMM	Surface MEC Removal
8/20/2018	2153274	1	Flare, surface, trip, M49 series	0	UXO	Surface MEC Removal
8/21/2018	2153277	1	Flare, surface, trip, M49 series	0	UXO	Surface MEC Removal
9/13/2018	2153282	1	Projectile, 37mm, low explosive, MK I	0	UXO	Surface MEC Removal
9/25/2018	2153283	1	Projectile, 37mm, low explosive, MK I	0	UXO	Surface MEC Removal
9/26/2018	2153284	1	Signal, illumination, ground, M126 series	0	UXO	Surface MEC Removal
10/18/2018	2153525	1	Signal, illumination, ground, M125 series	11	UXO	Pond Anomaly Investigation*
10/22/2018	2153849	1	Flare, surface, trip, M49 series	1	UXO	Pond Anomaly Investigation*
3/6/2019	2156386	1	Simulator, projectile, airburst, M74 series	12	UXO	Subsurface MEC Removal
3/6/2019	2156487	1	Simulator, projectile, airburst, M74 series	3	UXO	Subsurface MEC Removal
3/7/2019	2156496	21	Projectile, 60mm, mortar, high explosive, M49 series	24	DMM	Subsurface MEC Removal
Total Items Recovered		60				

\*The pond anomaly investigation is documented in the BLM Area B Ponds TIP (KEMRON, 2019).

### ***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 A required a FWV to the BLM Area B SSWP (KEMRON, 2017b). *Field Work Variance 021 to the Final Site-Specific Work Plan, Munitions and Explosives of Concern Remedial Action BLM Area B, Former Fort Ord, California* (FWV 021; KEMRON, 2018) described a limited subsurface MEC removal with advanced geophysical classification utilizing the Geometrics Metal Mapper 2x2 for several vernal ponds. The BLM Area B Ponds TIP (KEMRON, 2019) presented the results of the geophysical anomaly investigation.

### ***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 for small arms training (e.g., mounds, berms, structures, concentrations of expended bullets, or concentrations of other munitions-related items).

### ***5.0 Environmental Protection***

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#### ***5.1 Description of Impacts and Mitigation Measures***

The project area is within the Natural Resource Management Area which is designated for transfer to BLM as undeveloped habitat reserve as described in the *Installation-Wide Multispecies Habitat Management Plan for Former Fort Ord, California* (HMP; USACE, 1997). The HMP (USACE, 1997) describes special land restrictions and habitat management requirements within habitat reserve areas. Habitat reserve areas support plant and animal species protected under the Endangered Species Act; implementation of mitigation measures identified in the HMP (USACE,

1997) are required to minimize potential adverse impacts to listed species. Vegetation in the project area consists primarily of central maritime chaparral and contains numerous species listed as protected in the HMP (USACE, 1997).

Mitigation measures to reduce impacts to protected species during MEC RAs are described in the HMP (USACE, 1997), the *Reinitiation of Formal Consultation for Cleanup and Property Transfer Actions Conducted at the Former Fort Ord, Monterey County, California*. [Programmatic Biological Opinion (BO); United States Fish and Wildlife Service (USFWS), 2017]. Mitigation and other environmental protection measures that were implemented during this project are summarized below:

*Minimize Disturbance Associated with MEC Removal:* Disturbances were limited to those required for the above-mentioned activities. As required by the HMP (USACE, 1997), existing roads were used with the exception of where it was necessary to traverse the site using tracked vehicles in order to remove piles of debris, remove vegetation, and conduct the DGM portion of the field work. Access roads, staging areas, temporary vegetation stockpile areas, and other appurtenant facilities were sited to avoid impacts to HMP plant and wildlife species. Additionally, removal of multiple large Monterey manzanitas and coast live oak trees (*Quercus agrifolia*) were avoided during vegetation removal activities.

*Avoid Disturbance of HMP Annual Plant Populations:* While MEC removal and DGM activities were necessary within the HMP annuals plant population areas, no equipment or personnel were permitted within these areas from approximately March (approximate time of germination) through June (approximate time of seed-set) for Monterey spineflower and sand gilia, and through approximately September for Seaside bird's-beak.

*Conduct Employee Education Program:* Training for all supervisors and field personnel was conducted by the Project Biologist. Any new personnel also received biological training prior to working on the site. Training included information on rare, threatened, and endangered species on the site, including a description of the species, their protected status, a list of measures to be implemented to avoid and reduce impacts to these species and their habitat, and contact information to report unforeseen impacts to HMP species. Additionally, a Habitat Checklist was prepared by the Project Biologist prior to each activity that outlined specific avoidance and

minimization measures, which were communicated to the project supervisors prior to work initiation.

*Minimize Impacts to Black Legless Lizard:* Supervisors and field personnel were trained during the Employee Education Program to identify black legless lizard and were informed of the potential for this species to occur within the project site and the established protocol if any individuals were encountered. However, no black legless lizards were observed during the course of this work.

*Minimize and Compensate for Impacts to California Linderiella, California Tiger Salamander, and California Red-legged frog:* Supervisors and field personnel were trained during the Employee Education Program to identify California Tiger Salamander and California Red-legged frog and were informed of the potential for these species to occur within the project site and the established protocol if any individuals were encountered. Additionally, work within the vernal pond areas was only permitted during the dry season and heavy equipment was excluded from within 50 feet of the vernal ponds. Limited excavation was necessary within the vernal ponds, however, procedures in the *Standard Operating Procedure AGCMR-09, Anomaly Reacquisition and Intrusive Investigation*, as modified by FWV 021 (KEMRON, 2018), were followed to reduce impacts. Therefore, no restoration of habitat for these three species was necessary.

No California Red-legged frogs were observed during the course of this work.

*Invasive Weed Control:* In order to reduce the spread of invasive weeds, existing roads were used to the greatest extent feasible. Equipment, vehicles, and gear were required to be cleaned daily or before moving out of the area within areas identified to be highly invaded with Kalamath weed (*Hypericum perforatum*).

*Erosion Control:* To reduce erosion concerns normal vehicle access was restricted to existing roads and established access routes. Tracked vehicles were used to conduct vegetation removal and DGM surveys over the site. KEMRON monitored the work site for potential erosion problems and a final inspection was conducted by the Project Biologist.

## 5.2 *Biological Monitoring*

Prior to the initiation of work, baseline studies were conducted within the project area to document the location and abundance of HMP shrub and annual plant species and habitats; the results of these surveys are presented in the following reports:

- *1998 Annual Monitoring Report, Biological Baseline Studies and Follow—Up Monitoring at Unexploded Ordnance Sites on Former Fort Ord, Presidio of Monterey Annex, Monterey, California* (Harding Lawson Associates, 1998),
- *2015 Biological Monitoring Report BLM Area B, Subareas A, B, B-3 East, B-3 West, and C, and Units 05, 13, and 20; Units 01 West, 02 West, and 03 West; Units 02 East and 03 East; Units 15, 21, 32, and 34; and 2015 Annual Wetland Vegetation and Wildlife Monitoring Report, Former Fort Ord* (Burleson Consulting (Burleson), 2016), and
- *2017 Annual Report Wetland Vegetation and Wildlife Monitoring, Former Fort Ord* (Burleson, 2018).

Follow-up monitoring was conducted by Burleson in 2018; results of these surveys are presented in the following reports:

- *2018 Annual Report, Wetland Vegetation and Wildlife Monitoring, Former Fort Ord* (Burleson, 2019a) and
- *2018 Annual Report, Biological Monitoring for Units 13, 17, and 20; BLM Area B-3 West, and BLM Area B Subareas A and B Containment Lines; Units 5A, 9, 23, and 28; Units 1 East, 6, 7, 10, Watkins Gate Unburned Area, and MOUT Buffer; Units 15, 21, 32, and 34, Former Fort Ord* (Burleson, 2019b).

Monitoring within Unit A will continue according to the Programmatic BO (USFWS, 2017) to document the recovery of HMP species and habitat.

## 6.0 Conclusion

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Vegetation clearance (Figure 3) was completed in burn preparation areas totaling 179.5 acres in accordance with the BLM Area B SSWP (KEMRON, 2017b) and the Prescribed Burn Plan (Presidio of Monterey Fire Department, 2017). Surface MEC removal (Figure 4) was conducted in 116.9 acres within Unit A. An additional 15.5 acres received surface MEC removal in the area north of Lion's Revenge Road. In addition, 3.7 acres of trails were subjected to subsurface MEC removal. The prescribed burn planned for 2018 for Unit A was not conducted. In summary the work completed to date in Unit A includes vegetation clearance and technology-aided surface MEC removal in the burn containment areas and subsurface MEC (Figure 4) removal within the interior of the unburned part of Unit A on existing trails. Completion of the remaining RA within Unit A is pending a prescribed burn during a future burn season.

## 7.0 References

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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*. [Administrative Record (AR)# OE-0897]

Burleson Consulting (Burleson), 2016. *2015 Biological Monitoring Report BLM Area B, Subareas A, B, B-3 East, B-3 West, and C, and Units 05, 13, and 20; Units 01 West, 02 West, and 03 West; Units 02 East and 03 East; Units 15, 21, 32, and 34; and 2015 Annual Wetland Vegetation and Wildlife Monitoring Report, Former Fort Ord*. (AR# BW-2795)

Burleson, 2018. *2017 Annual Report Wetland Vegetation and Wildlife Monitoring, Former Fort Ord*. (AR# BW-2844)

Burleson, 2019a. *2018 Annual Report, Wetland Vegetation and Wildlife Monitoring, Former Fort Ord*. (AR# BW-2868)



Burleson, 2019b. *Annual Report, Biological Monitoring for Units 13, 17, and 20; BLM Area B-3 West, and BLM Area B Subareas A and B Containment Lines; Units 5A, 9, 23, and 28; Units 1 East, 6, 7, 10, Watkins Gate Unburned Area, and MOUT Buffer; Units 15, 21, 32, and 34, Former Fort Ord.* (AR# BW-2870)

Gilbane, 2015. *Final, Revision 2 Track 2 Remedial Investigation /Feasibility Study BLM Area B and MRS-16 Former Fort Ord, California.* (AR# OE-0802D)

Harding Lawson Associates, 1998. *Annual Monitoring Report, Biological Baseline Studies and Follow—Up Monitoring at Unexploded Ordnance Sites on Former Fort Ord, Presidio of Monterey Annex, Monterey, California.* (AR# OE-0431)

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.* (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)

KEMRON, 2018. *Field Work Variance 021 to the Final Site-Specific Work Plan, Munitions and Explosives of Concern Remedial Action BLM Area B, Former Fort Ord, California.* (AR# OE-0900B.3)

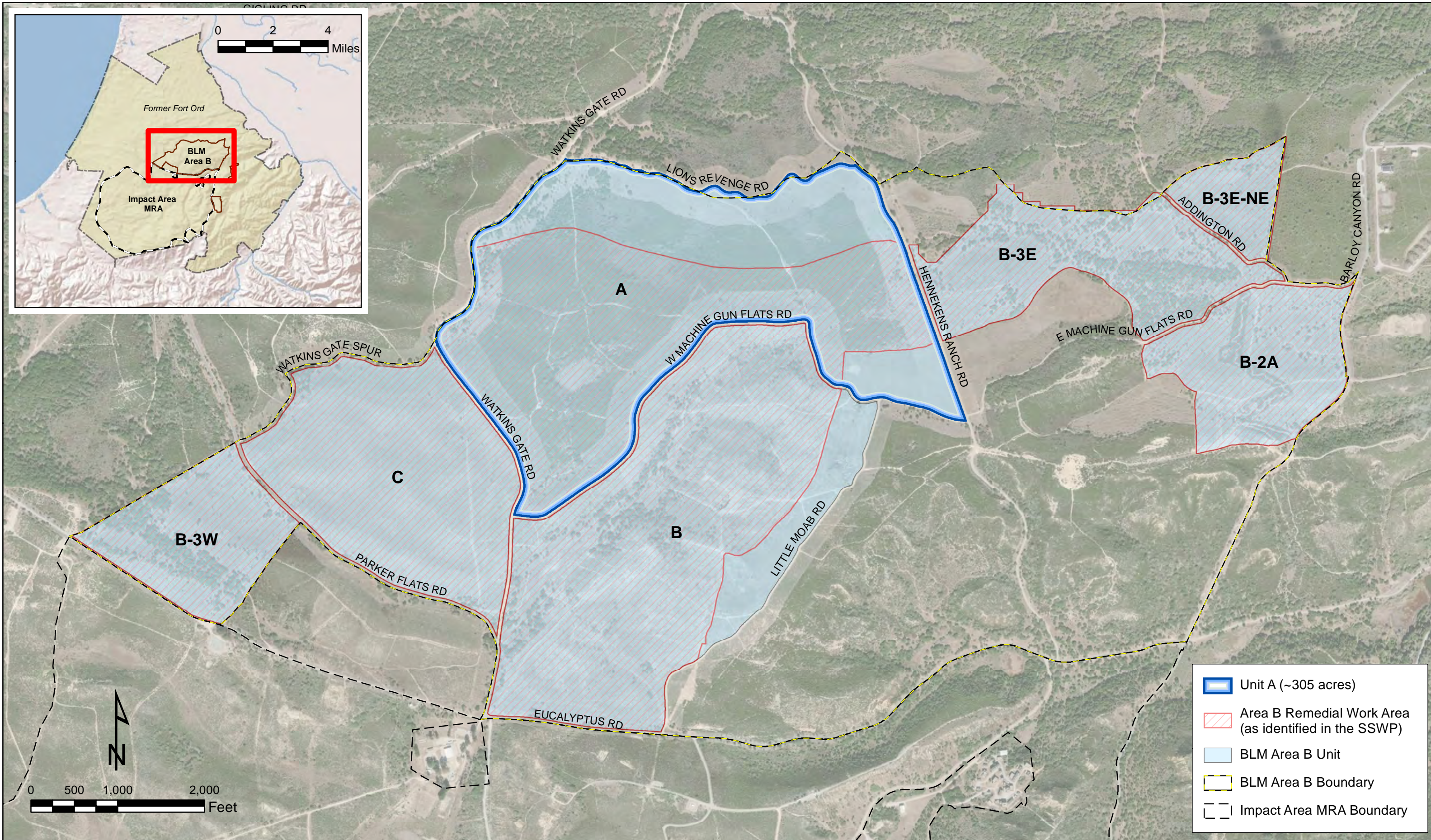
KEMRON, 2019. *BLM Area B Track 2 Ponds Geophysical Anomaly Investigation Technical Information Paper Former Fort Ord, California.* (AR# OE-0966)

Presidio of Monterey Fire Department, 2017. *FINAL BLM Area B – Units A, B, and C PRESCRIBED BURN PLAN.* (AR# OE-0901B)

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

United States Fish and Wildlife Service (USFWS) 2017. *Reinitiation of Formal Consultation for Cleanup and Property Transfer Actions Conducted at the Former Fort Ord, Monterey County, California.* (AR# BW-2747A)

## *Figures*



- Unit A (~305 acres)
- Area B Remedial Work Area (as identified in the SSWP)
- BLM Area B Unit
- BLM Area B Boundary
- Impact Area MRA Boundary

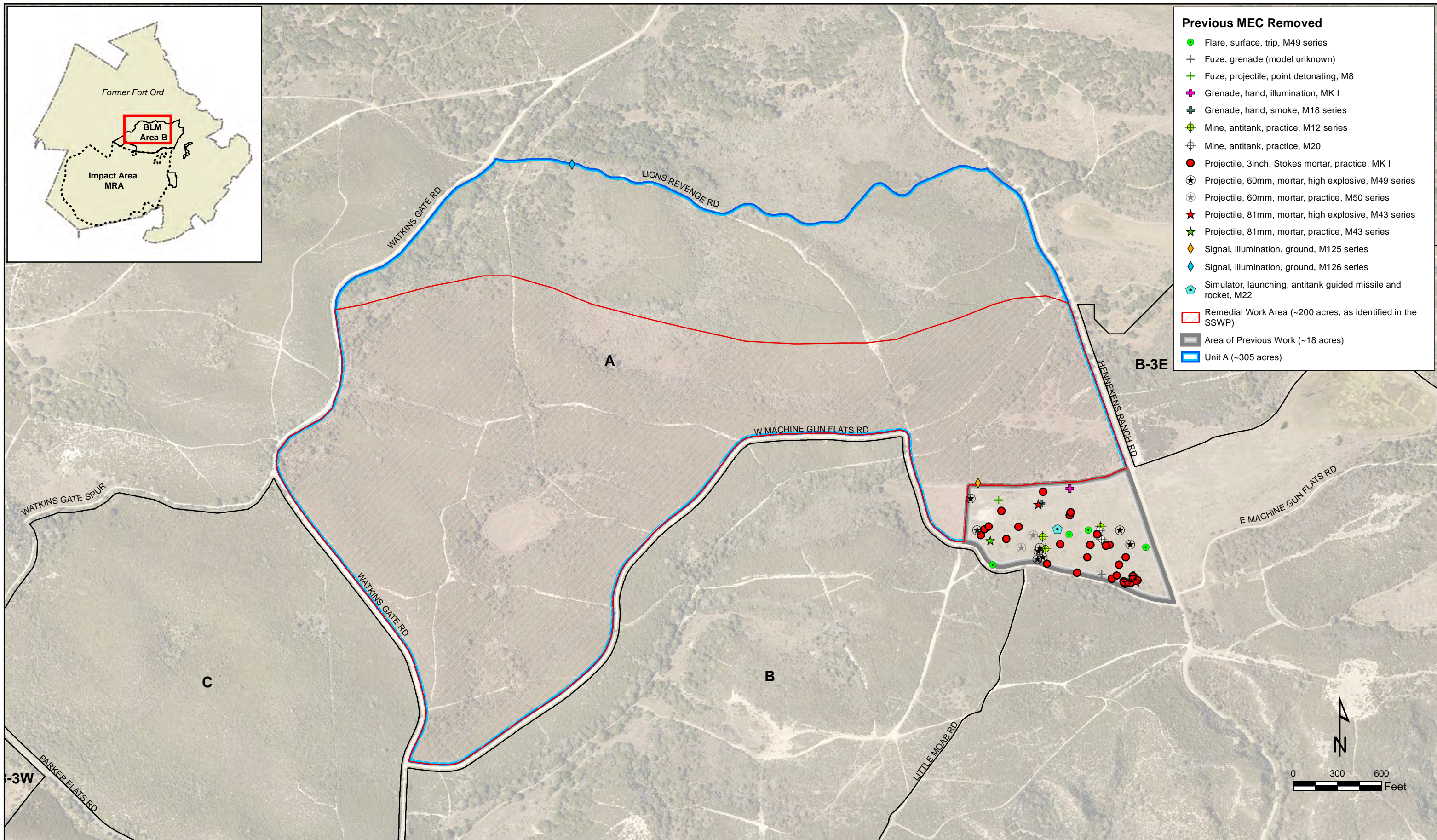
N

0 2 4 Miles



BLM Area B - Unit A  
 MEC Remedial Action Technical Information Paper  
 Former Fort Ord, California

**Figure 1**  
 Location

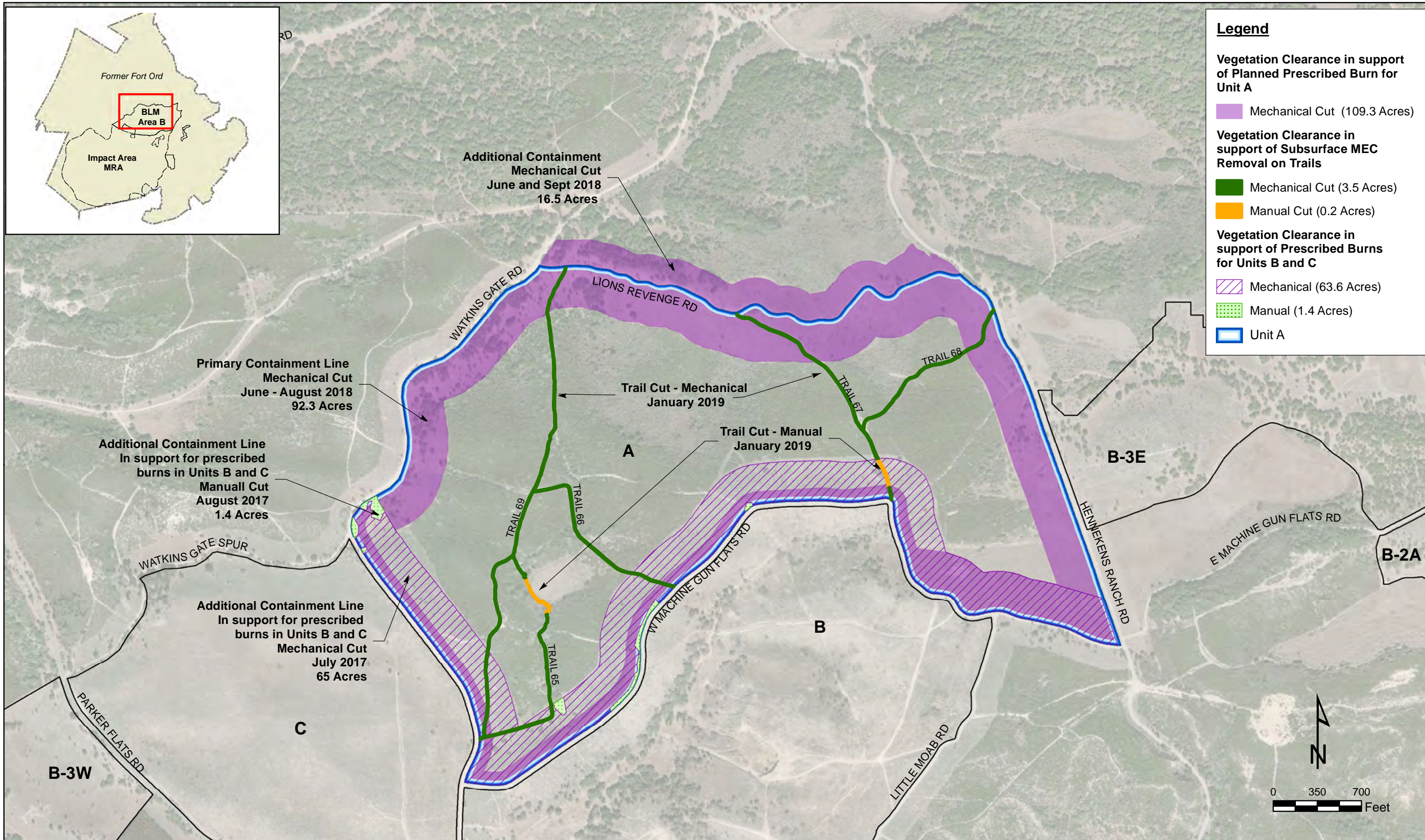


BLM Area B - Unit A  
 MEC Remedial Action Technical Information Paper  
 Former Fort Ord, California

Figure 2

MEC Items Removed  
 Prior to Remedial Action

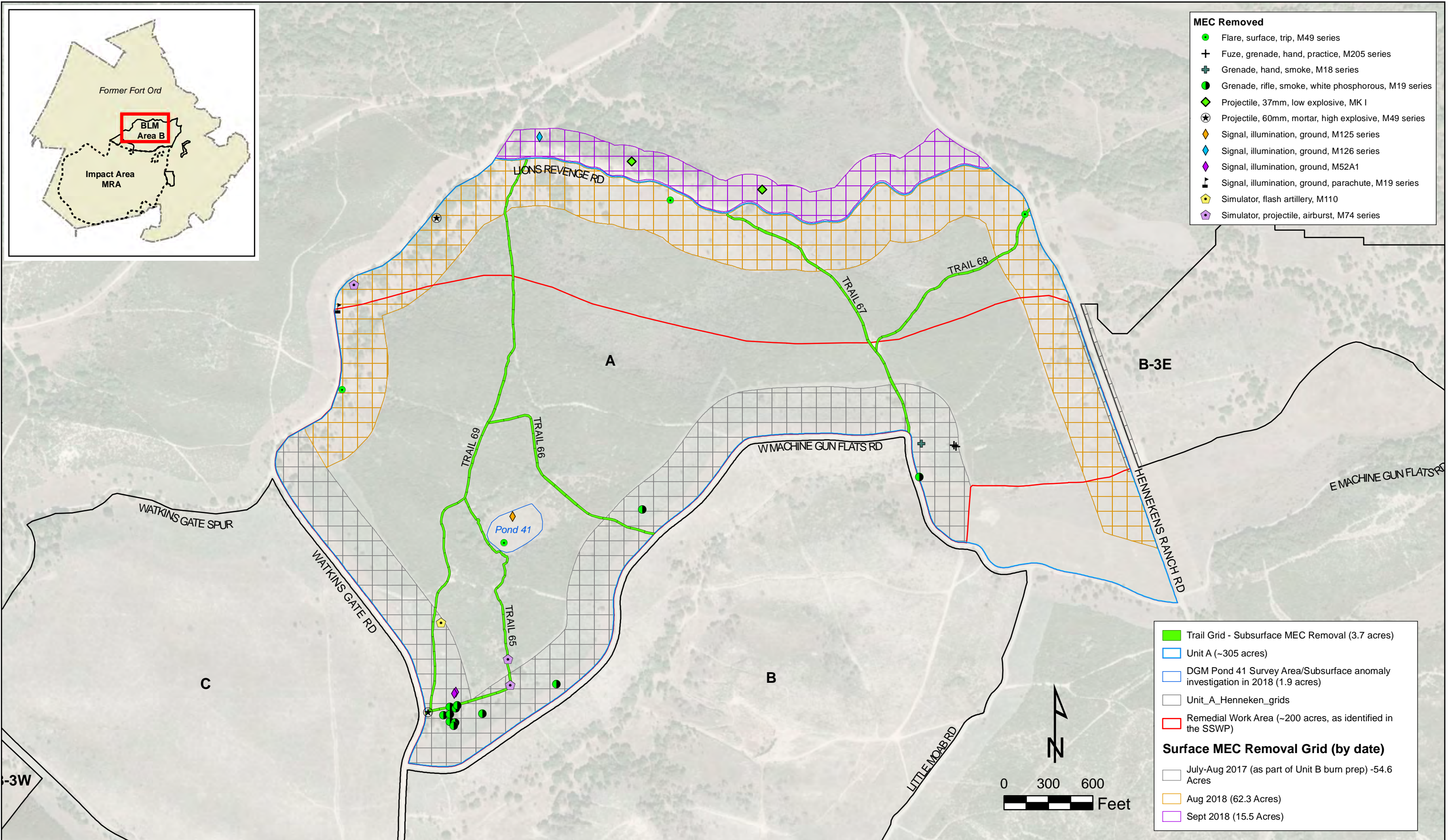




BLM Area B - Unit A  
 MEC Remedial Action Technical Information Paper  
 Former Fort Ord, California

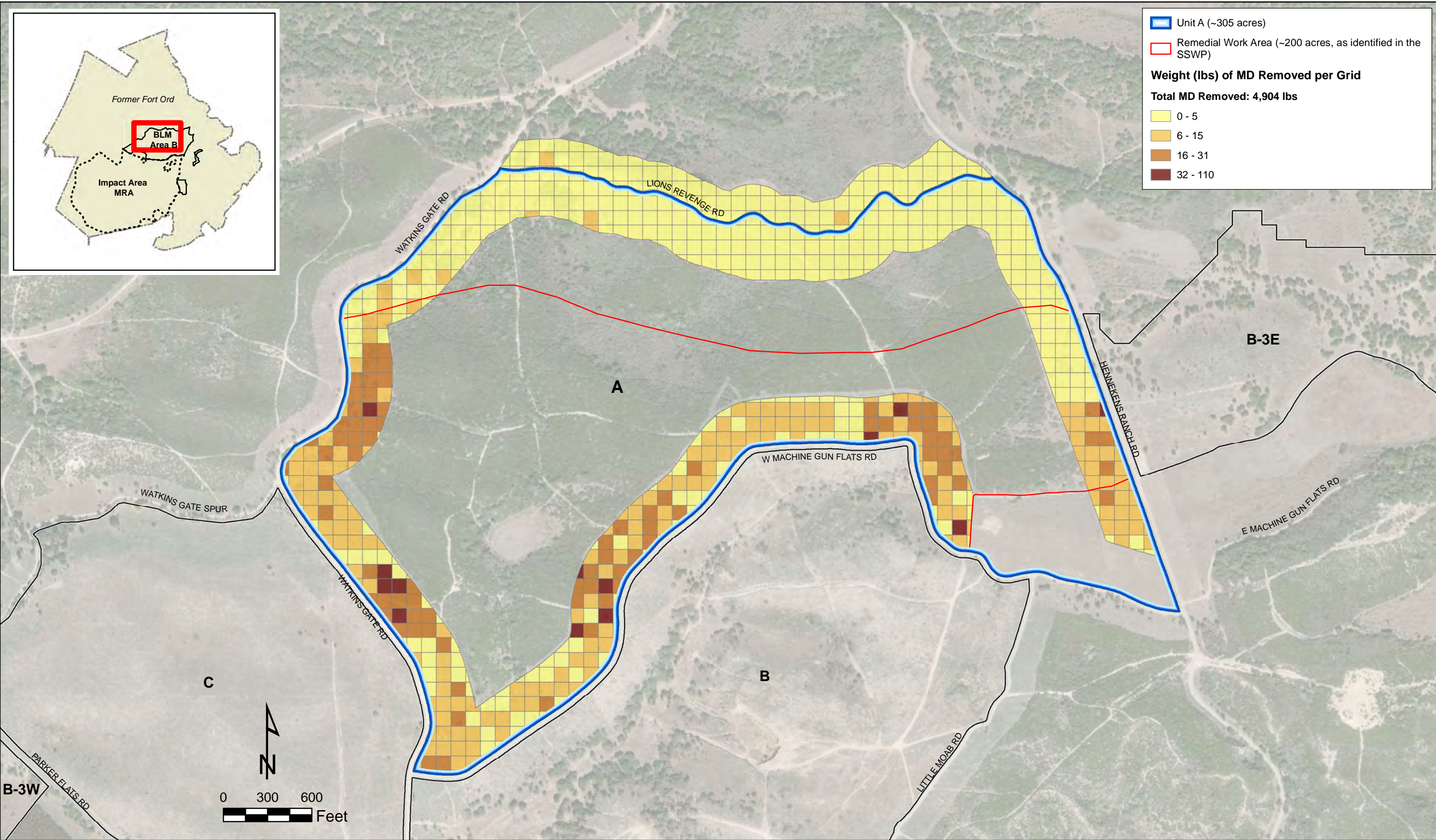
**Figure 3**  
 Vegetation Clearance





BLM Area B - Unit A  
 MEC Remedial Action Technical Information Paper  
 Former Fort Ord, California

**Figure 4**  
 MEC Items Removed  
 During Remedial Action



BLM Area B - Unit A  
 MEC Remedial Action Technical Information Paper  
 Former Fort Ord, California

**Figure 5**  
 Munitions Debris Weight per Grid





*Appendix A*

*Unit A MEC Items Recovered Prior to Remedial Action*

Date Found	Contractor	Item Type	QTY	Description	Depth (inches)
2/23/1996	CMS	ISD	1	Projectile, 81mm, mortar, high explosive, M43 series	0
2/28/1996	CMS	ISD	1	Projectile, 3inch, Stokes mortar, practice, MK I	0
2/28/1996	CMS	ISD	1	Projectile, 3inch, Stokes mortar, practice, MK I	0
2/29/1996	CMS	ISD	1	Projectile, 3inch, Stokes mortar, practice, MK I	0
3/5/1996	CMS	ISD	1	Projectile, 81mm, mortar, high explosive, M43 series	0
3/6/1996	CMS	ISD	1	Grenade, hand, smoke, M18 series	0
3/6/1996	CMS	ISD	1	Projectile, 3inch, Stokes mortar, practice, MK I	0
3/6/1996	CMS	ISD	1	Projectile, 3inch, Stokes mortar, practice, MK I	0
3/7/1996	CMS	ISD	1	Projectile, 3inch, Stokes mortar, practice, MK I	0
3/14/1996	CMS	ISD	1	Projectile, 3inch, Stokes mortar, practice, MK I	0
3/21/1996	CMS	ISD	1	Projectile, 3inch, Stokes mortar, practice, MK I	0
3/28/1996	CMS	ISD	1	Projectile, 3inch, Stokes mortar, practice, MK I	0
4/11/1996	CMS	ISD	1	Mine, antitank, practice, M12 series	0
4/11/1996	CMS	ISD	1	Mine, antitank, practice, M20	0
4/11/1996	CMS	ISD	1	Mine, antitank, practice, M20	0
4/11/1996	CMS	ISD	1	Projectile, 3inch, Stokes mortar, practice, MK I	0
4/23/1996	CMS	ISD	1	Signal, illumination, ground, M125 series	0
5/16/1996	CMS	ISD	1	Projectile, 3inch, Stokes mortar, practice, MK I	0
5/20/1996	CMS	ISD	1	Projectile, 3inch, Stokes mortar, practice, MK I	0
5/21/1996	CMS	ISD	1	Simulator, launching, antitank guided missile and rocket, M22	0
10/4/1999	USACE	ISD	1	Signal, illumination, ground, M126 series	0
12/9/1999	USA	UXO	1	Grenade, hand, smoke, M18 series	3
12/9/1999	USA	UXO	1	Projectile, 81mm, mortar, high explosive, M43 series	5
12/13/1999	USA	UXO	1	Mine, antitank, practice, M12 series	2
12/13/1999	USA	UXO	1	Mine, antitank, practice, M12 series	3
12/13/1999	USA	UXO	1	Projectile, 60mm, mortar, high explosive, M49 series	8
12/13/1999	USA	UXO	1	Projectile, 60mm, mortar, high explosive, M49 series	7
12/14/1999	USA	UXO	1	Flare, surface, trip, M49 series	1
12/14/1999	USA	UXO	1	Projectile, 3inch, Stokes mortar, practice, MK I	1
12/14/1999	USA	UXO	1	Projectile, 60mm, mortar, high explosive, M49 series	6
12/14/1999	USA	UXO	1	Projectile, 60mm, mortar, high explosive, M49 series	6
12/15/1999	USA	UXO	1	Projectile, 3inch, Stokes mortar, practice, MK I	6
12/15/1999	USA	UXO	1	Projectile, 60mm, mortar, high explosive, M49 series	10
12/16/1999	USA	UXO	1	Projectile, 60mm, mortar, practice, M50 series	4
12/16/1999	USA	UXO	1	Projectile, 60mm, mortar, practice, M50 series	2
12/28/1999	USA	UXO	1	Flare, surface, trip, M49 series	2
12/29/1999	USA	UXO	1	Projectile, 3inch, Stokes mortar, practice, MK I	10
12/30/1999	USA	UXO	1	Fuze, projectile, point detonating, M8	3
1/4/2000	USA	UXO	1	Projectile, 3inch, Stokes mortar, practice, MK I	10
1/4/2000	USA	UXO	1	Projectile, 3inch, Stokes mortar, practice, MK I	16
1/4/2000	USA	UXO	1	Projectile, 3inch, Stokes mortar, practice, MK I	12
1/4/2000	USA	UXO	1	Projectile, 60mm, mortar, high explosive, M49 series	10
1/4/2000	USA	UXO	1	Projectile, 81mm, mortar, practice, M43 series	6
1/5/2000	USA	UXO	1	Projectile, 3inch, Stokes mortar, practice, MK I	8
1/5/2000	USA	UXO	1	Projectile, 3inch, Stokes mortar, practice, MK I	2
1/5/2000	USA	UXO	1	Projectile, 3inch, Stokes mortar, practice, MK I	6
1/6/2000	USA	UXO	1	Projectile, 3inch, Stokes mortar, practice, MK I	3
1/6/2000	USA	UXO	1	Projectile, 60mm, mortar, high explosive, M49 series	6
1/6/2000	USA	UXO	1	Projectile, 60mm, mortar, high explosive, M49 series	1
1/10/2000	USA	UXO	1	Projectile, 3inch, Stokes mortar, practice, MK I	2
1/10/2000	USA	UXO	1	Projectile, 3inch, Stokes mortar, practice, MK I	10
1/10/2000	USA	UXO	1	Fuze, grenade (model unknown)	2
1/11/2000	USA	UXO	1	Projectile, 3inch, Stokes mortar, practice, MK I	6
1/13/2000	USA	UXO	1	Flare, surface, trip, M49 series	4
1/13/2000	USA	UXO	1	Grenade, hand, illumination, MK I	6

Date Found	Contractor	Item Type	QTY	Description	Depth (inches)
1/13/2000	USA	UXO	1	Projectile, 3inch, Stokes mortar, practice, MK I	8
1/13/2000	USA	UXO	1	Projectile, 3inch, Stokes mortar, practice, MK I	10
1/13/2000	USA	UXO	1	Projectile, 3inch, Stokes mortar, practice, MK I	4
1/13/2000	USA	UXO	1	Projectile, 3inch, Stokes mortar, practice, MK I	2
1/18/2000	USA	UXO	1	Flare, surface, trip, M49 series	6
1/18/2000	USA	UXO	1	Projectile, 3inch, Stokes mortar, practice, MK I	10
Total Items Recovered			61		

*Appendix B*

*Surface MEC Removal Quality Assurance and Quality Control Results*

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Grid ID	Grid Type	Acreage	Analog Surface Op QC Team	Analog Surface Op QC Complete	Date Analog Surface Op QC Complete	Analog Surface Op QA Team	Analog Surface Op QA Complete	Date Analog Surface Op QA Complete
C3B4E0	Containment Line	0.01	UXO_QC_1	Yes	9/6/2017	UXO_QA_1	Yes	9/20/2017
C3B4F0	Containment Line	0.09	UXO_QC_1	Yes	9/6/2017	UXO_QA_1	Yes	9/20/2017
C3B4G0	Containment Line	0.01	UXO_QC_1	Yes	9/6/2017	UXO_QA_1	Yes	9/20/2017
C3B5E1	Containment Line	0.04	UXO_QC_1	Yes	9/6/2017	UXO_QA_1	Yes	9/20/2017
C3B5E2	Containment Line	0.06	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5E3	Containment Line	0.05	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5E4	Containment Line	>0.01	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5F1	Containment Line	0.23	UXO_QC_1	Yes	9/6/2017	UXO_QA_1	Yes	9/20/2017
C3B5F2	Containment Line	0.23	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5F3	Containment Line	0.23	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5F4	Containment Line	0.17	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5F5	Containment Line	0.03	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5G1	Containment Line	0.21	UXO_QC_1	Yes	9/6/2017	UXO_QA_1	Yes	9/20/2017
C3B5G2	Containment Line	0.23	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5G3	Containment Line	0.23	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5G4	Containment Line	0.23	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5G5	Containment Line	0.22	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5G6	Containment Line	0.08	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5G7	Containment Line	>0.01	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5H1	Containment Line	0.12	UXO_QC_1	Yes	9/6/2017	UXO_QA_1	Yes	9/20/2017
C3B5H2	Containment Line	0.23	UXO_QC_1	Yes	9/6/2017	UXO_QA_1	Yes	9/20/2017
C3B5H3	Containment Line	0.23	UXO_QC_1	Yes	9/6/2017	UXO_QA_1	Yes	9/20/2017
C3B5H4	Containment Line	0.23	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5H5	Containment Line	0.23	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5H6	Containment Line	0.23	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5H7	Containment Line	0.15	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5H8	Containment Line	0.02	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5I1	Containment Line	0.1	UXO_QC_1	Yes	9/6/2017	UXO_QA_1	Yes	9/20/2017
C3B5I2	Containment Line	0.23	UXO_QC_1	Yes	9/6/2017	UXO_QA_1	Yes	9/20/2017
C3B5I3	Containment Line	0.23	UXO_QC_1	Yes	9/6/2017	UXO_QA_1	Yes	9/20/2017
C3B5I4	Containment Line	0.23	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5I5	Containment Line	0.23	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5I6	Containment Line	0.23	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5I7	Containment Line	0.23	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5I8	Containment Line	0.21	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5I9	Containment Line	0.07	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5J0	Containment Line	0.14	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5J1	Containment Line	0.14	UXO_QC_1	Yes	9/6/2017	UXO_QA_1	Yes	9/20/2017
C3B5J2	Containment Line	0.23	UXO_QC_1	Yes	9/6/2017	UXO_QA_1	Yes	9/20/2017
C3B5J3	Containment Line	0.23	UXO_QC_1	Yes	9/6/2017	UXO_QA_1	Yes	9/20/2017
C3B5J4	Containment Line	0.17	UXO_QC_1	Yes	9/6/2017	UXO_QA_1	Yes	9/20/2017
C3B5J5	Containment Line	0.18	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5J6	Containment Line	0.23	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5J7	Containment Line	0.23	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5J8	Containment Line	0.23	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B5J9	Containment Line	0.23	UXO_QC_1	Yes	7/13/2017	UXO_QA_1	Yes	9/18/2017
C3B6J1	Containment Line	0.01	UXO_QC_1	Yes	7/19/2017	UXO_QA_1	Yes	9/18/2017
C3C0J1	Primary Containment Line	>0.01	UXO_QC_1	Yes	8/23/2018	UXO_QA_1	Yes	9/26/2018
C3C4A0	Containment Line	>0.01	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C4B0	Containment Line	0.04	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C4C0	Containment Line	0.14	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C4D0	Containment Line	0.23	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C4D9	Containment Line	0.07	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C4E0	Containment Line	0.23	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C4E8	Containment Line	0.03	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C4E9	Containment Line	0.21	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C4F0	Containment Line	0.23	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C4F7	Containment Line	0.01	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C4F8	Containment Line	0.18	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C4F9	Containment Line	0.23	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C4G0	Containment Line	0.23	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C4G7	Containment Line	0.14	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C4G8	Containment Line	0.23	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C4G9	Containment Line	0.23	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C4H0	Containment Line	0.15	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C4H6	Containment Line	0.09	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C4H7	Containment Line	0.23	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C4H8	Containment Line	0.23	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C4H9	Containment Line	0.23	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C4I0	Containment Line	0.01	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C4I5	Containment Line	0.04	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017

Grid ID	Grid Type	Acreage	Analog Surface Op QC Team	Analog Surface Op QC Complete	Date Analog Surface Op QC Complete	Analog Surface Op QA Team	Analog Surface Op QA Complete	Date Analog Surface Op QA Complete
C3C4I6	Containment Line	0.22	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C4I7	Containment Line	0.23	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C4I8	Containment Line	0.23	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C4I9	Containment Line	0.19	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C4J4	Containment Line	0.02	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C4J5	Containment Line	0.2	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C4J6	Containment Line	0.23	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C4J7	Containment Line	0.23	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C4J8	Containment Line	0.21	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C4J9	Containment Line	0.03	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C5A0	Containment Line	0.23	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C5A1	Containment Line	0.2	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C5A2	Containment Line	0.23	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C5A3	Containment Line	0.23	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C5A4	Containment Line	0.09	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C5A5	Containment Line	>0.01	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C5A6	Containment Line	0.12	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C5A7	Containment Line	0.23	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C5A8	Containment Line	0.23	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C5A9	Containment Line	0.23	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C5B0	Containment Line	0.23	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C5B1	Containment Line	0.23	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C5B2	Containment Line	0.23	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C5B3	Containment Line	0.23	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C5B4	Containment Line	0.03	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C5B7	Containment Line	0.04	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C5B8	Containment Line	0.19	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C5B9	Containment Line	0.23	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C5C0	Containment Line	0.23	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C5C1	Containment Line	0.23	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C5C2	Containment Line	0.23	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C5C3	Containment Line	0.19	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C5C8	Containment Line	0.01	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C5C9	Containment Line	0.14	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C5D0	Containment Line	0.11	UXO_QC_1	Yes	7/19/2017	UXO_QA_1	Yes	9/18/2017
C3C5D1	Containment Line	0.23	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C5D2	Containment Line	0.23	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C5D3	Containment Line	0.1	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C5D9	Containment Line	>0.01	UXO_QC_1	Yes	7/19/2017	UXO_QA_1	Yes	9/18/2017
C3C5E1	Containment Line	0.23	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C5E2	Containment Line	0.19	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C5E3	Containment Line	0.01	UXO_QC_1	Yes	9/7/2017	UXO_QA_1	Yes	9/19/2017
C3C5F1	Containment Line	0.22	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C5F2	Containment Line	0.04	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C5G1	Containment Line	0.09	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C5H1	Containment Line	>0.01	UXO_QC_1	Yes	9/14/2017	UXO_QA_1	Yes	9/19/2017
C3C6A1	Containment Line	0.19	UXO_QC_1	Yes	7/19/2017	UXO_QA_1	Yes	9/18/2017
C3C6A2	Containment Line	0.03	UXO_QC_1	Yes	7/19/2017	UXO_QA_1	Yes	9/18/2017
C3C6B1	Containment Line	0.23	UXO_QC_1	Yes	7/19/2017	UXO_QA_1	Yes	9/18/2017
C3C6B2	Containment Line	0.2	UXO_QC_1	Yes	7/19/2017	UXO_QA_1	Yes	9/18/2017
C3C6B3	Containment Line	0.03	UXO_QC_1	Yes	7/19/2017	UXO_QA_1	Yes	9/18/2017
C3C6C1	Containment Line	0.23	UXO_QC_1	Yes	7/19/2017	UXO_QA_1	Yes	9/18/2017
C3C6C2	Containment Line	0.23	UXO_QC_1	Yes	7/19/2017	UXO_QA_1	Yes	9/18/2017
C3C6C3	Containment Line	0.18	UXO_QC_1	Yes	7/19/2017	UXO_QA_1	Yes	9/18/2017
C3C6C4	Containment Line	>0.01	UXO_QC_1	Yes	7/19/2017	UXO_QA_1	Yes	9/18/2017
C3C6D1	Containment Line	0.23	UXO_QC_1	Yes	7/19/2017	UXO_QA_1	Yes	9/18/2017
C3C6D2	Containment Line	0.23	UXO_QC_1	Yes	7/19/2017	UXO_QA_1	Yes	9/18/2017
C3C6D3	Containment Line	0.23	UXO_QC_1	Yes	7/19/2017	UXO_QA_1	Yes	9/18/2017
C3C6D4	Containment Line	0.04	UXO_QC_1	Yes	7/19/2017	UXO_QA_1	Yes	9/18/2017
C3C6E1	Containment Line	0.2	UXO_QC_1	Yes	7/19/2017	UXO_QA_1	Yes	9/18/2017
C3C6E2	Containment Line	0.23	UXO_QC_1	Yes	7/19/2017	UXO_QA_1	Yes	9/18/2017
C3C6E3	Containment Line	0.23	UXO_QC_1	Yes	7/19/2017	UXO_QA_1	Yes	9/18/2017
C3C6E4	Containment Line	0.07	UXO_QC_1	Yes	7/19/2017	UXO_QA_1	Yes	9/18/2017
C3C6F1	Containment Line	0.2	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C6F2	Containment Line	0.23	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C6F3	Containment Line	0.23	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C6F4	Containment Line	0.07	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C6G1	Containment Line	0.19	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C6G2	Containment Line	0.23	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C6G3	Containment Line	0.23	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C6G4	Containment Line	0.09	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017

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C3C6H1	Containment Line	0.14	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C6H2	Containment Line	0.23	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C6H3	Containment Line	0.23	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C6H4	Containment Line	0.16	UXO_QC_1	Yes	7/31/2017	UXO_QA_1	Yes	9/18/2017
C3C6I1	Containment Line	0.07	UXO_QC_1	Yes	8/23/2017	UXO_QA_1	Yes	9/18/2017
C3C6I2	Containment Line	0.23	UXO_QC_1	Yes	8/23/2017	UXO_QA_1	Yes	9/18/2017
C3C6I3	Containment Line	0.23	UXO_QC_1	Yes	8/23/2017	UXO_QA_1	Yes	9/18/2017
C3C6I4	Containment Line	0.23	UXO_QC_1	Yes	8/23/2017	UXO_QA_1	Yes	9/18/2017
C3C6I5	Containment Line	0.06	UXO_QC_1	Yes	8/22/2017	UXO_QA_1	Yes	9/18/2017
C3C6J1	Containment Line	>0.01	UXO_QC_1	Yes	8/23/2017	UXO_QA_1	Yes	9/18/2017
C3C6J2	Containment Line	0.19	UXO_QC_1	Yes	8/23/2017	UXO_QA_1	Yes	9/18/2017
C3C6J3	Containment Line	0.23	UXO_QC_1	Yes	8/23/2017	UXO_QA_1	Yes	9/18/2017
C3C6J4	Containment Line	0.23	UXO_QC_1	Yes	8/23/2017	UXO_QA_1	Yes	9/18/2017
C3C6J5	Containment Line	0.22	UXO_QC_1	Yes	8/22/2017	UXO_QA_1	Yes	9/18/2017
C3C6J6	Containment Line	0.05	UXO_QC_1	Yes	8/22/2017	UXO_QA_1	Yes	9/18/2017
C3C8J7	Containment Line	0.01	UXO_QC_1	Yes	8/16/2017	UXO_QA_1	Yes	9/12/2017
C3C8J8	Containment Line	>0.01	UXO_QC_1	Yes	8/16/2017	UXO_QA_1	Yes	9/12/2017
C3C9J0	Primary Containment Line	0.08	UXO_QC_1	Yes	8/23/2018	UXO_QA_1	Yes	9/26/2018
C3C9J9	Primary Containment Line	0.02	UXO_QC_1	Yes	8/23/2018	UXO_QA_1	Yes	9/26/2018
C3D4A3	Containment Line	>0.01	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4A4	Containment Line	0.17	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4A5	Containment Line	0.23	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4A6	Containment Line	0.23	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4A7	Containment Line	0.23	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4A8	Containment Line	0.07	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4B3	Containment Line	0.12	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4B4	Containment Line	0.23	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4B5	Containment Line	0.23	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4B6	Containment Line	0.23	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4B7	Containment Line	0.12	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4C2	Containment Line	0.06	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4C3	Containment Line	0.23	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4C4	Containment Line	0.23	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4C5	Containment Line	0.23	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4C6	Containment Line	0.16	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4C7	Containment Line	>0.01	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4D1	Containment Line	>0.01	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4D2	Containment Line	0.19	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4D3	Containment Line	0.23	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4D4	Containment Line	0.23	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4D5	Containment Line	0.2	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4D6	Containment Line	0.02	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4E1	Containment Line	0.09	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4E2	Containment Line	0.23	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4E3	Containment Line	0.23	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4E4	Containment Line	0.23	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4E4	Primary Containment Line	>0.01	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018
C3D4E5	Containment Line	0.05	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4F1	Containment Line	0.12	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4F2	Containment Line	0.23	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4F3	Containment Line	0.23	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4F4	Primary Containment Line	0.1	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018
C3D4F4	Containment Line	0.13	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4F5	Primary Containment Line	0.18	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018
C3D4F6	Primary Containment Line	0.05	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018
C3D4G1	Containment Line	0.03	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4G2	Containment Line	0.22	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4G3	Primary Containment Line	0.02	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018
C3D4G3	Containment Line	0.22	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4G4	Primary Containment Line	0.21	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018
C3D4G4	Containment Line	0.02	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4G5	Primary Containment Line	0.23	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018
C3D4G6	Primary Containment Line	0.22	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018
C3D4G7	Primary Containment Line	0.06	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018
C3D4H2	Containment Line	0.03	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4H3	Primary Containment Line	0.09	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018
C3D4H3	Containment Line	0.08	UXO_QC_1	Yes	9/18/2017	UXO_QA_1	Yes	9/19/2017
C3D4H4	Primary Containment Line	0.23	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018
C3D4H5	Primary Containment Line	0.23	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018
C3D4H6	Primary Containment Line	0.23	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018
C3D4H7	Primary Containment Line	0.21	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018

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C3D4H8	Primary Containment Line	0.02	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018
C3D4I4	Primary Containment Line	0.07	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018
C3D4I5	Primary Containment Line	0.22	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018
C3D4I6	Primary Containment Line	0.23	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018
C3D4I7	Primary Containment Line	0.23	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018
C3D4I8	Primary Containment Line	0.09	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018
C3D4J5	Primary Containment Line	0.14	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018
C3D4J6	Primary Containment Line	0.23	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018
C3D4J7	Primary Containment Line	0.23	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018
C3D4J8	Primary Containment Line	0.17	UXO_QC_1	Yes	7/31/2018	UXO_QA_1	Yes	9/13/2018
C3D6A2	Containment Line	0.05	UXO_QC_1	Yes	8/23/2017	UXO_QA_1	Yes	9/18/2017
C3D6A3	Containment Line	0.22	UXO_QC_1	Yes	8/23/2017	UXO_QA_1	Yes	9/18/2017
C3D6A4	Containment Line	0.23	UXO_QC_1	Yes	8/23/2017	UXO_QA_1	Yes	9/18/2017
C3D6A5	Containment Line	0.23	UXO_QC_1	Yes	8/22/2017	UXO_QA_1	Yes	9/18/2017
C3D6A6	Containment Line	0.21	UXO_QC_1	Yes	8/22/2017	UXO_QA_1	Yes	9/18/2017
C3D6A7	Containment Line	0.04	UXO_QC_1	Yes	8/22/2017	UXO_QA_1	Yes	9/18/2017
C3D6B3	Containment Line	0.07	UXO_QC_1	Yes	8/23/2017	UXO_QA_1	Yes	9/18/2017
C3D6B4	Containment Line	0.22	UXO_QC_1	Yes	8/23/2017	UXO_QA_1	Yes	9/18/2017
C3D6B5	Containment Line	0.23	UXO_QC_1	Yes	8/22/2017	UXO_QA_1	Yes	9/18/2017
C3D6B6	Containment Line	0.23	UXO_QC_1	Yes	8/22/2017	UXO_QA_1	Yes	9/18/2017
C3D6B7	Containment Line	0.22	UXO_QC_1	Yes	8/22/2017	UXO_QA_1	Yes	9/18/2017
C3D6B8	Containment Line	0.08	UXO_QC_1	Yes	8/15/2017	UXO_QA_1	Yes	9/18/2017
C3D6C0	Containment Line	>0.01	UXO_QC_1	Yes	8/15/2017	UXO_QA_1	Yes	9/18/2017
C3D6C4	Containment Line	0.08	UXO_QC_1	Yes	8/23/2017	UXO_QA_1	Yes	9/18/2017
C3D6C5	Containment Line	0.23	UXO_QC_1	Yes	8/22/2017	UXO_QA_1	Yes	9/18/2017
C3D6C6	Containment Line	0.23	UXO_QC_1	Yes	8/22/2017	UXO_QA_1	Yes	9/18/2017
C3D6C7	Containment Line	0.23	UXO_QC_1	Yes	8/22/2017	UXO_QA_1	Yes	9/18/2017
C3D6C8	Containment Line	0.23	UXO_QC_1	Yes	8/15/2017	UXO_QA_1	Yes	9/18/2017
C3D6C9	Containment Line	0.12	UXO_QC_1	Yes	8/15/2017	UXO_QA_1	Yes	9/18/2017
C3D6D0	Containment Line	0.11	UXO_QC_1	Yes	8/15/2017	UXO_QA_1	Yes	9/18/2017
C3D6D5	Containment Line	0.08	UXO_QC_1	Yes	8/22/2017	UXO_QA_1	Yes	9/18/2017
C3D6D6	Containment Line	0.22	UXO_QC_1	Yes	8/22/2017	UXO_QA_1	Yes	9/18/2017
C3D6D7	Containment Line	0.23	UXO_QC_1	Yes	8/22/2017	UXO_QA_1	Yes	9/18/2017
C3D6D8	Containment Line	0.23	UXO_QC_1	Yes	8/15/2017	UXO_QA_1	Yes	9/18/2017
C3D6D9	Containment Line	0.23	UXO_QC_1	Yes	8/15/2017	UXO_QA_1	Yes	9/18/2017
C3D6E0	Containment Line	0.23	UXO_QC_1	Yes	8/15/2017	UXO_QA_1	Yes	9/18/2017
C3D6E6	Containment Line	0.04	UXO_QC_1	Yes	8/22/2017	UXO_QA_1	Yes	9/18/2017
C3D6E7	Containment Line	0.2	UXO_QC_1	Yes	8/22/2017	UXO_QA_1	Yes	9/18/2017
C3D6E8	Containment Line	0.23	UXO_QC_1	Yes	8/15/2017	UXO_QA_1	Yes	9/18/2017
C3D6E9	Containment Line	0.23	UXO_QC_1	Yes	8/15/2017	UXO_QA_1	Yes	9/18/2017
C3D6F0	Containment Line	0.23	UXO_QC_1	Yes	8/15/2017	UXO_QA_1	Yes	9/18/2017
C3D6F7	Containment Line	0.02	UXO_QC_1	Yes	8/22/2017	UXO_QA_1	Yes	9/18/2017
C3D6F8	Containment Line	0.2	UXO_QC_1	Yes	8/15/2017	UXO_QA_1	Yes	9/18/2017
C3D6F9	Containment Line	0.23	UXO_QC_1	Yes	8/15/2017	UXO_QA_1	Yes	9/18/2017
C3D6G0	Containment Line	0.23	UXO_QC_1	Yes	8/15/2017	UXO_QA_1	Yes	9/18/2017
C3D6G8	Containment Line	0.05	UXO_QC_1	Yes	8/15/2017	UXO_QA_1	Yes	9/18/2017
C3D6G9	Containment Line	0.23	UXO_QC_1	Yes	8/15/2017	UXO_QA_1	Yes	9/18/2017
C3D6H0	Containment Line	0.23	UXO_QC_1	Yes	8/15/2017	UXO_QA_1	Yes	9/18/2017
C3D6H9	Containment Line	0.11	UXO_QC_1	Yes	8/15/2017	UXO_QA_1	Yes	9/18/2017
C3D6I0	Containment Line	0.15	UXO_QC_1	Yes	8/15/2017	UXO_QA_1	Yes	9/18/2017
C3D6J9	Containment Line	>0.01	UXO_QC_1	Yes	8/15/2017	UXO_QA_1	Yes	9/18/2017
C3D7E1	Containment Line	0.06	UXO_QC_1	Yes	8/1/2017	UXO_QA_1	Yes	9/14/2017
C3D7F1	Containment Line	0.21	UXO_QC_1	Yes	8/1/2017	UXO_QA_1	Yes	9/14/2017
C3D7F2	Containment Line	0.02	UXO_QC_1	Yes	8/1/2017	UXO_QA_1	Yes	9/14/2017
C3D7G1	Containment Line	0.23	UXO_QC_1	Yes	8/1/2017	UXO_QA_1	Yes	9/14/2017
C3D7G2	Containment Line	0.18	UXO_QC_1	Yes	8/1/2017	UXO_QA_1	Yes	9/14/2017
C3D7G3	Containment Line	0.02	UXO_QC_1	Yes	8/1/2017	UXO_QA_1	Yes	9/14/2017
C3D7H0	Containment Line	0.2	UXO_QC_1	Yes	8/9/2017	UXO_QA_1	Yes	9/12/2017
C3D7H1	Containment Line	0.23	UXO_QC_1	Yes	8/1/2017	UXO_QA_1	Yes	9/14/2017
C3D7H2	Containment Line	0.23	UXO_QC_1	Yes	8/1/2017	UXO_QA_1	Yes	9/14/2017
C3D7H3	Containment Line	0.23	UXO_QC_1	Yes	8/1/2017	UXO_QA_1	Yes	9/14/2017
C3D7H4	Containment Line	0.21	UXO_QC_1	Yes	8/4/2017	UXO_QA_1	Yes	9/14/2017
C3D7H5	Containment Line	0.19	UXO_QC_1	Yes	8/4/2017	UXO_QA_1	Yes	9/14/2017
C3D7H6	Containment Line	0.18	UXO_QC_1	Yes	8/4/2017	UXO_QA_1	Yes	9/14/2017
C3D7H7	Containment Line	0.18	UXO_QC_1	Yes	8/4/2017	UXO_QA_1	Yes	9/14/2017
C3D7H8	Containment Line	0.17	UXO_QC_1	Yes	8/4/2017	UXO_QA_1	Yes	9/14/2017
C3D7H9	Containment Line	0.18	UXO_QC_1	Yes	8/4/2017	UXO_QA_1	Yes	9/14/2017
C3D7I0	Containment Line	0.23	UXO_QC_1	Yes	8/9/2017	UXO_QA_1	Yes	9/12/2017
C3D7I1	Containment Line	0.23	UXO_QC_1	Yes	8/1/2017	UXO_QA_1	Yes	9/14/2017
C3D7I2	Containment Line	0.23	UXO_QC_1	Yes	8/1/2017	UXO_QA_1	Yes	9/14/2017

















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C3F8E2	Additional Mastication	0.17	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8E2	Primary Containment Line	0.02	UXO_QC_1	Yes	8/21/2018	UXO_QA_1	Yes	9/26/2018
C3F8E3	Additional Mastication	0.23	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8E4	Additional Mastication	0.22	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8E4	Primary Containment Line	>0.01	UXO_QC_1	Yes	8/21/2018	UXO_QA_1	Yes	9/26/2018
C3F8E5	Additional Mastication	0.12	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8E5	Primary Containment Line	0.07	UXO_QC_1	Yes	8/21/2018	UXO_QA_1	Yes	9/26/2018
C3F8E6	Additional Mastication	0.02	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8E6	Primary Containment Line	0.17	UXO_QC_1	Yes	8/21/2018	UXO_QA_1	Yes	9/26/2018
C3F8E7	Primary Containment Line	0.23	UXO_QC_1	Yes	8/21/2018	UXO_QA_1	Yes	9/26/2018
C3F8E8	Primary Containment Line	0.23	UXO_QC_1	Yes	8/21/2018	UXO_QA_1	Yes	9/26/2018
C3F8E9	Primary Containment Line	0.23	UXO_QC_1	Yes	8/21/2018	UXO_QA_1	Yes	9/26/2018
C3F8F1	Additional Mastication	0.21	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8F2	Additional Mastication	0.23	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8F3	Additional Mastication	0.22	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8F4	Additional Mastication	0.23	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8F5	Additional Mastication	0.23	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8F6	Additional Mastication	0.22	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8F7	Additional Mastication	0.15	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8F7	Primary Containment Line	0.04	UXO_QC_1	Yes	8/21/2018	UXO_QA_1	Yes	9/26/2018
C3F8F8	Additional Mastication	0.14	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8F8	Primary Containment Line	0.06	UXO_QC_1	Yes	8/21/2018	UXO_QA_1	Yes	9/26/2018
C3F8F9	Additional Mastication	0.06	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8F9	Primary Containment Line	0.02	UXO_QC_1	Yes	8/21/2018	UXO_QA_1	Yes	9/26/2018
C3F8G1	Additional Mastication	0.01	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8G2	Additional Mastication	0.04	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8G3	Additional Mastication	0.01	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8G4	Additional Mastication	0.1	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8G5	Additional Mastication	0.22	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8G6	Additional Mastication	0.23	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8G7	Additional Mastication	0.19	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8G8	Additional Mastication	0.07	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8H5	Additional Mastication	0.07	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8H6	Additional Mastication	0.13	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F8H7	Additional Mastication	0.01	UXO_QC_1	Yes	10/1/2018	UXO_QA_1	Yes	10/9/2018
C3F9A1	Primary Containment Line	0.23	UXO_QC_1	Yes	8/21/2018	UXO_QA_1	Yes	9/26/2018
C3F9A2	Primary Containment Line	0.22	UXO_QC_1	Yes	8/21/2018	UXO_QA_1	Yes	9/26/2018
C3F9A3	Primary Containment Line	0.01	UXO_QC_1	Yes	8/21/2018	UXO_QA_1	Yes	9/26/2018
C3F9B1	Primary Containment Line	0.23	UXO_QC_1	Yes	8/21/2018	UXO_QA_1	Yes	9/26/2018
C3F9B2	Primary Containment Line	0.16	UXO_QC_1	Yes	8/21/2018	UXO_QA_1	Yes	9/26/2018
C3F9C1	Primary Containment Line	0.23	UXO_QC_1	Yes	8/21/2018	UXO_QA_1	Yes	9/26/2018
C3F9C2	Primary Containment Line	0.09	UXO_QC_1	Yes	8/21/2018	UXO_QA_1	Yes	9/26/2018
C3F9D1	Primary Containment Line	0.18	UXO_QC_1	Yes	8/21/2018	UXO_QA_1	Yes	9/26/2018
C3F9D2	Primary Containment Line	0.01	UXO_QC_1	Yes	8/21/2018	UXO_QA_1	Yes	9/26/2018
C3F9E1	Primary Containment Line	>0.01	UXO_QC_1	Yes	8/21/2018	UXO_QA_1	Yes	9/26/2018
HR011WS	Additional Mastication	0.05	UXO_QC_1	Yes	9/12/2017	UXO_QA_1	Yes	9/20/2017
HR012WS	Additional Mastication	0.05	UXO_QC_1	Yes	9/12/2017	UXO_QA_1	Yes	9/20/2017
HR013WS	Additional Mastication	0.05	UXO_QC_1	Yes	9/12/2017	UXO_QA_1	Yes	9/20/2017
HR014WS	Additional Mastication	0.05	UXO_QC_1	Yes	9/12/2017	UXO_QA_1	Yes	9/20/2017
HR015WS	Additional Mastication	0.05	UXO_QC_1	Yes	9/12/2017	UXO_QA_1	Yes	9/20/2017
HR016WS	Additional Mastication	0.05	UXO_QC_1	Yes	9/12/2017	UXO_QA_1	Yes	9/20/2017
HR017WS	Additional Mastication	0.05	UXO_QC_1	Yes	9/12/2017	UXO_QA_1	Yes	9/20/2017
HR018WS	Additional Mastication	0.05	UXO_QC_1	Yes	9/12/2017	UXO_QA_1	Yes	9/20/2017
HR019WS	Additional Mastication	0.05	UXO_QC_1	Yes	9/12/2017	UXO_QA_1	Yes	9/20/2017
HR020WS	Additional Mastication	0.05	UXO_QC_1	Yes	9/12/2017	UXO_QA_1	Yes	9/20/2017
HR021WS	Additional Mastication	0.05	UXO_QC_1	Yes	9/12/2017	UXO_QA_1	Yes	9/20/2017
HR022WS	Additional Mastication	0.06	UXO_QC_1	Yes	9/12/2017	UXO_QA_1	Yes	9/20/2017

ID Identification  
Op Operation  
QA Quality Assurance  
QC Quality Control  
UXO Unexploded Ordnance



*Appendix C*

*Subsurface MEC Removal Quality Assurance and Quality Control Results*

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Grid ID	Grid Type	Acreeage	Analog Intrusive Op QC Team	Analog Intrusive Op QC Complete	Date Analog Intrusive Op QC Complete	Analog Intrusive Op QA Team	Analog Intrusive Op QA Complete	Date Analog Intrusive Op QA Complete
TR65-01	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR65-02	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR65-03	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR65-04	Trail	0.04	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR65-05	Trail	0.04	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR65-06	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR65-07	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR65-08	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR65-09	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR65-10	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR65-11	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR65-12	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR65-13	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR65-14	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR65-15	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR65-16	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR65-17	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR65-18	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR65-19	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR65-20	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR65-21	Trail	0.02	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR66-01	Trail	0.03	UXO_QC_1	Yes	3/18/2019	UXO_QA_1	Yes	3/27/2019
TR66-02	Trail	0.03	UXO_QC_1	Yes	3/18/2019	UXO_QA_1	Yes	3/27/2019
TR66-03	Trail	0.03	UXO_QC_1	Yes	3/18/2019	UXO_QA_1	Yes	3/27/2019
TR66-04	Trail	0.04	UXO_QC_1	Yes	3/18/2019	UXO_QA_1	Yes	3/27/2019
TR66-05	Trail	0.04	UXO_QC_1	Yes	3/18/2019	UXO_QA_1	Yes	3/27/2019
TR66-06	Trail	0.04	UXO_QC_1	Yes	3/18/2019	UXO_QA_1	Yes	3/27/2019
TR66-07	Trail	0.04	UXO_QC_1	Yes	3/18/2019	UXO_QA_1	Yes	3/27/2019
TR66-08	Trail	0.04	UXO_QC_1	Yes	3/18/2019	UXO_QA_1	Yes	3/27/2019
TR66-09	Trail	0.04	UXO_QC_1	Yes	3/18/2019	UXO_QA_1	Yes	3/27/2019
TR66-10	Trail	0.04	UXO_QC_1	Yes	3/18/2019	UXO_QA_1	Yes	3/27/2019
TR66-11	Trail	0.04	UXO_QC_1	Yes	3/18/2019	UXO_QA_1	Yes	3/27/2019
TR66-12	Trail	0.03	UXO_QC_1	Yes	3/18/2019	UXO_QA_1	Yes	3/27/2019
TR66-13	Trail	0.03	UXO_QC_1	Yes	3/18/2019	UXO_QA_1	Yes	3/27/2019
TR66-14	Trail	0.04	UXO_QC_1	Yes	3/18/2019	UXO_QA_1	Yes	3/27/2019
TR66-15	Trail	0.03	UXO_QC_1	Yes	3/18/2019	UXO_QA_1	Yes	3/27/2019
TR66-16	Trail	0.02	UXO_QC_1	Yes	3/18/2019	UXO_QA_1	Yes	3/27/2019
TR67-01	Trail	0.04	UXO_QC_1	Yes	3/28/2019	UXO_QA_1	Yes	4/3/2019
TR67-02	Trail	0.03	UXO_QC_1	Yes	3/28/2019	UXO_QA_1	Yes	4/3/2019
TR67-03	Trail	0.04	UXO_QC_1	Yes	3/28/2019	UXO_QA_1	Yes	4/3/2019
TR67-04	Trail	0.04	UXO_QC_1	Yes	3/28/2019	UXO_QA_1	Yes	4/3/2019
TR67-05	Trail	0.04	UXO_QC_1	Yes	3/28/2019	UXO_QA_1	Yes	4/3/2019
TR67-06	Trail	0.03	UXO_QC_1	Yes	3/28/2019	UXO_QA_1	Yes	4/3/2019
TR67-07	Trail	0.03	UXO_QC_1	Yes	3/28/2019	UXO_QA_1	Yes	4/3/2019
TR67-08	Trail	0.04	UXO_QC_1	Yes	3/28/2019	UXO_QA_1	Yes	4/3/2019
TR67-09	Trail	0.04	UXO_QC_1	Yes	3/28/2019	UXO_QA_1	Yes	4/3/2019
TR67-10	Trail	0.03	UXO_QC_1	Yes	3/28/2019	UXO_QA_1	Yes	4/3/2019
TR67-11	Trail	0.03	UXO_QC_1	Yes	3/28/2019	UXO_QA_1	Yes	4/3/2019
TR67-12	Trail	0.03	UXO_QC_1	Yes	3/28/2019	UXO_QA_1	Yes	4/3/2019
TR67-13	Trail	0.03	UXO_QC_1	Yes	3/28/2019	UXO_QA_1	Yes	4/3/2019
TR67-14	Trail	0.03	UXO_QC_1	Yes	3/28/2019	UXO_QA_1	Yes	4/3/2019
TR67-15	Trail	0.03	UXO_QC_1	Yes	3/28/2019	UXO_QA_1	Yes	4/3/2019
TR67-16	Trail	0.04	UXO_QC_1	Yes	3/28/2019	UXO_QA_1	Yes	4/3/2019
TR67-17	Trail	0.04	UXO_QC_1	Yes	3/28/2019	UXO_QA_1	Yes	4/3/2019

Grid ID	Grid Type	Acreage	Analog Intrusive Op QC Team	Analog Intrusive Op QC Complete	Date Analog Intrusive Op QC Complete	Analog Intrusive Op QA Team	Analog Intrusive Op QA Complete	Date Analog Intrusive Op QA Complete
TR67-18	Trail	0.04	UXO_QC_1	Yes	3/28/2019	UXO_QA_1	Yes	4/3/2019
TR67-19	Trail	0.03	UXO_QC_1	Yes	3/28/2019	UXO_QA_1	Yes	4/3/2019
TR67-20	Trail	0.03	UXO_QC_1	Yes	3/28/2019	UXO_QA_1	Yes	4/3/2019
TR67-21	Trail	0.01	UXO_QC_1	Yes	3/28/2019	UXO_QA_1	Yes	4/3/2019
TR68-01	Trail	0.03	UXO_QC_1	Yes	3/21/2019	UXO_QA_1	Yes	3/28/2019
TR68-02	Trail	0.03	UXO_QC_1	Yes	3/21/2019	UXO_QA_1	Yes	3/28/2019
TR68-03	Trail	0.03	UXO_QC_1	Yes	3/21/2019	UXO_QA_1	Yes	3/28/2019
TR68-04	Trail	0.03	UXO_QC_1	Yes	3/21/2019	UXO_QA_1	Yes	3/28/2019
TR68-05	Trail	0.03	UXO_QC_1	Yes	3/21/2019	UXO_QA_1	Yes	3/28/2019
TR68-06	Trail	0.03	UXO_QC_1	Yes	3/21/2019	UXO_QA_1	Yes	3/28/2019
TR68-07	Trail	0.03	UXO_QC_1	Yes	3/21/2019	UXO_QA_1	Yes	3/28/2019
TR68-08	Trail	0.03	UXO_QC_1	Yes	3/21/2019	UXO_QA_1	Yes	3/28/2019
TR68-09	Trail	0.04	UXO_QC_1	Yes	3/21/2019	UXO_QA_1	Yes	3/28/2019
TR68-10	Trail	0.03	UXO_QC_1	Yes	3/21/2019	UXO_QA_1	Yes	3/28/2019
TR68-11	Trail	0.03	UXO_QC_1	Yes	3/21/2019	UXO_QA_1	Yes	3/28/2019
TR68-12	Trail	0.03	UXO_QC_1	Yes	3/21/2019	UXO_QA_1	Yes	3/28/2019
TR68-13	Trail	0.04	UXO_QC_1	Yes	3/21/2019	UXO_QA_1	Yes	3/28/2019
TR68-14	Trail	0.04	UXO_QC_1	Yes	3/21/2019	UXO_QA_1	Yes	3/28/2019
TR68-15	Trail	0.04	UXO_QC_1	Yes	3/21/2019	UXO_QA_1	Yes	3/28/2019
TR69-01	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR69-02	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR69-03	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR69-04	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR69-05	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR69-06	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR69-07	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR69-08	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR69-09	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR69-10	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR69-11	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR69-12	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR69-13	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR69-14	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR69-15	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR69-16	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR69-17	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR69-18	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR69-19	Trail	0.03	UXO_QC_1	Yes	3/11/2019	UXO_QA_1	Yes	3/20/2019
TR69-20	Trail	0.03	UXO_QC_1	Yes	2/27/2019	UXO_QA_1	Yes	3/20/2019
TR69-21	Trail	0.03	UXO_QC_1	Yes	2/27/2019	UXO_QA_1	Yes	3/20/2019
TR69-22	Trail	0.04	UXO_QC_1	Yes	2/27/2019	UXO_QA_1	Yes	3/20/2019
TR69-23	Trail	0.03	UXO_QC_1	Yes	2/27/2019	UXO_QA_1	Yes	3/20/2019
TR69-24	Trail	0.04	UXO_QC_1	Yes	2/27/2019	UXO_QA_1	Yes	3/20/2019
TR69-25	Trail	0.03	UXO_QC_1	Yes	2/27/2019	UXO_QA_1	Yes	3/20/2019
TR69-26	Trail	0.03	UXO_QC_1	Yes	2/27/2019	UXO_QA_1	Yes	3/20/2019
TR69-27	Trail	0.03	UXO_QC_1	Yes	2/27/2019	UXO_QA_1	Yes	3/20/2019
TR69-28	Trail	0.03	UXO_QC_1	Yes	2/27/2019	UXO_QA_1	Yes	3/20/2019
TR69-29	Trail	0.03	UXO_QC_1	Yes	2/27/2019	UXO_QA_1	Yes	3/20/2019
TR69-30	Trail	0.04	UXO_QC_1	Yes	2/27/2019	UXO_QA_1	Yes	3/20/2019
TR69-31	Trail	0.03	UXO_QC_1	Yes	2/27/2019	UXO_QA_1	Yes	3/20/2019
TR69-32	Trail	0.03	UXO_QC_1	Yes	2/27/2019	UXO_QA_1	Yes	3/20/2019
TR69-33	Trail	0.03	UXO_QC_1	Yes	2/27/2019	UXO_QA_1	Yes	3/20/2019
TR69-34	Trail	0.03	UXO_QC_1	Yes	2/27/2019	UXO_QA_1	Yes	3/20/2019
TR69-35	Trail	0.03	UXO_QC_1	Yes	2/27/2019	UXO_QA_1	Yes	3/20/2019

Grid ID	Grid Type	Acreage	Analog Intrusive Op QC Team	Analog Intrusive Op QC Complete	Date Analog Intrusive Op QC Complete	Analog Intrusive Op QA Team	Analog Intrusive Op QA Complete	Date Analog Intrusive Op QA Complete
TR69-36	Trail	0.03	UXO_QC_1	Yes	2/27/2019	UXO_QA_1	Yes	3/20/2019
TR69-37	Trail	0.03	UXO_QC_1	Yes	2/27/2019	UXO_QA_1	Yes	3/20/2019
TR69-38	Trail	0.03	UXO_QC_1	Yes	2/27/2019	UXO_QA_1	Yes	3/20/2019
TR69-39	Trail	0.03	UXO_QC_1	Yes	2/27/2019	UXO_QA_1	Yes	3/20/2019
TR69-40	Trail	0.02	UXO_QC_1	Yes	2/27/2019	UXO_QA_1	Yes	3/20/2019

ID Identification  
 Op Operation  
 QA Quality Assurance  
 QC Quality Control  
 UXO Unexploded Ordnance