

FINAL
SITE-SPECIFIC FINAL REPORT
MUNITIONS AND EXPLOSIVES OF CONCERN
REMEDIAL ACTION UNIT 3
WESTERN SLOPES AREA PILOT STUDY
Former Camp Bonneville Military Reservation,
Vancouver, Washington

January 2018

Prepared for:

Clark County
Public Works Department
1300 Franklin Street 98666
Vancouver, Washington

Prepared under:

Environmental Services Cooperative
Agreement No. W912DY-11-2-0337

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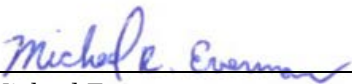
January 2018

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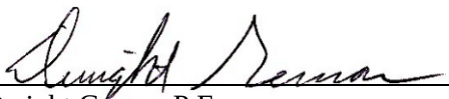
Date: January 18, 2018



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ABBREVIATIONS AND ACRONYMS

BCRRT	Bonneville Conservation Restoration and Renewal Team, LLC
bgs	below ground surface
CAP	Cleanup Action Plan
CBMR	Former Camp Bonneville Military Reservation
CITA	Central Impact Target Area
CVFAW	Central Valley Floor and Associated Wetlands
DMM	discarded military munitions
DOD	Department of Defense
FS	Feasibility Study
IVS	instrument verification strip
MC	munitions constituent
MDAS	material documented as safe
MEC	munitions and explosives of concern
MPPEH	material potentially presenting an explosive hazard
PPCD	Prospective Purchaser Consent Decree
QA	quality assurance
QC	quality control
RAU	Remedial Action Unit
RI	Remedial Investigation
SSFR	Site-Specific Final Report
SUXOS	Senior Unexploded Ordnance Supervisor
USACE	U.S. Army Corps of Engineers
USC	United States Code
UXO	unexploded ordnance
UXOSO	Unexploded Ordnance Safety Officer
UXOQCS	Unexploded Ordnance Quality Control Specialist
WDOE	Washington State Department of Ecology
WESTON	Weston Solutions, Inc.
WSA	Western Slopes Area

EXECUTIVE SUMMARY

Weston Solutions, Inc. was contracted by Clark County under a 2012 Remediation Agreement, as modified, to implement the Cleanup Action Plan requirements for a portion of the Western Slopes Area (WSA) as a Pilot Study. The munitions cleanup was conducted as described in the Amended Prospective Purchaser Consent Decree, for the Former Camp Bonneville Military Reservation (CBMR).

The munitions cleanup included a surface clearance to remove munitions and explosives of concern (MEC), material potentially presenting an explosive hazard (MPPEH), munitions debris, material documented as safe (MDAS) and other metallic items to a depth of 3 inches below ground surface within a portion of the WSA. The WSA is comprised of approximately 600 acres within the western portion of the CBMR, of which 425 acres are considered to be accessible with slopes less than 25 degrees (slopes greater than 25 degrees are considered steep and expected to have limited access). Within the WSA, two discrete areas totaling 17 acres located adjacent to the western boundary of the Central Valley Floor were designated for the Pilot Study. The objective of the Pilot Study was to assist in determining what further clearance actions, if any, are appropriate for the remaining accessible portions of the WSA.

A land survey was performed to mark the boundary of the WSA Pilot Study areas which were subdivided into a total of 74 grids, each assigned a unique identifier and having a nominal size equivalent to approximately 10,000 square feet (due to the irregular shape of the clearance area each grid varied in size and shape). An initial surface sweep of the clearance areas was conducted to identify any surface hazards. To prevent interference with the location and investigation of anomalies, vegetation less than six inches in diameter was cut to a height of no more than six inches above ground surface. Cut vegetation and deadfall litter were removed from the WSA Pilot Study Areas.

Visual search and analog survey techniques were then utilized to search each grid using a search lane width that varied between three and five feet, dependent on the terrain. Identified anomalies were investigated to a depth of three inches below ground surface and removed in real time as the UXO teams progressed across each grid. No areas were considered inaccessible or unsafe for clearance activities within the WSA Pilot Study area.

Quality control inspections were performed over a minimum of 10 percent of each grid after the surface anomaly clearance was completed to ensure that all MEC, MPPEH, MDAS and other metallic debris within quality control parameters were removed. Other quality control measures included function checks of all geophysical instruments and the placement of blind seed items in the search areas to validate the effectiveness of the clearance effort. Quality assurance inspections were performed by unexploded ordnance-qualified personnel from Clark County and the Washington State Department of Ecology.

All items and materials characterized as MEC and MPPEH were detonated at CBMR. Items or materials that were determined unsafe to move were blown-in-place. Items that were initially assumed to be MEC or MPPEH but were safe to move were stored at the Central Impact Target Area and detonated within the maximum 90-day holding period. Some MEC/MPPEH items that were disposed of by either blow-in-place or during detonation events at the Central Impact Target Area were reclassified as MDAS based on the lack of high order characteristics of the resulting explosion. One MEC item was recovered during the WSA Pilot Study surface clearance.

A qualified archaeologist conducted inspections of non-munitions and scrap metal items removed from the Pilot Study areas. There were no cultural artifacts or cultural resources identified during the WSA Pilot Study surface clearance activities. Following inspections, all recovered MDAS and scrap metals were appropriately disposed.

1. PROJECT ACTIVITIES AND OPERATIONS

1.1 INTRODUCTION

A Pilot Study has been completed to cleanup munitions in selected areas of the Western Slopes at the Former Camp Bonneville Military Reservation (CBMR) located in Vancouver, Washington (Figure 1). As stated in the Amended Prospective Purchaser Consent Decree (PPCD) No. 06-2-05340-4 (Washington State Department of Ecology [WDOE] and Clark County Superior Court, 2012), Clark County is responsible for the munitions cleanup. The cleanup activities were conducted by Weston Solutions, Inc. (WESTON) under a Remediation Agreement between Clark County, Washington and WESTON, as modified. Funding for the cleanup was provided by the U.S. Army under Environmental Services Cooperative Agreement Number W912DY-11-2-0337 with Clark County.

This Site-Specific Final Report (SSFR) provides results of the munitions cleanup during the Pilot Study. Munitions and explosives of concern (MEC) removal at the Western Slopes Area (WSA) is part of the clearance activities being conducted at Remedial Action Unit (RAU) 3, which includes sites at CBMR where ammunition residuals may be found. Phase 1 of the RAU 3 munitions clearance was conducted in the Central Valley Floor and Associated Wetlands (CVFAW). Phase 2 of the RAU 3 munitions clearance was conducted at Former Demolition Areas, Former Training Range Target Areas, and Former Firing Positions and Points. Activities and results of the Phase 1 and Phase 2 munitions clearance are documented in separate SSFRs (WESTON, 2017a and 2017b). The munitions cleanup at the RAU 3 areas is being conducted to remove MEC and material potentially presenting an explosive hazard (MPPEH). As an After Action Report, this SSFR includes the content requirements for Site-Specific Final Reports as listed in U.S. Army Corps of Engineers (USACE) Data Item Description HNC-011.01.

1.2 WORK AUTHORIZATION DOCUMENTS

The MEC and MPPEH clearance requirements for RAU 3 are described in the following documents:

- Environmental Services Cooperative Agreement Number W912DY-11-2-0337 between the USACE and Clark County (USACE, 2011)
- Remediation Agreement between Clark County Washington and WESTON (Clark County Washington, 2012) including Modification 04 dated November 29, 2016
- Amended PPCD No. 06-2-05340-4 (WDOE and Clark County Superior Court, 2012)
- Final Cleanup Action Plan (CAP) for RAU 3 (Bonneville Conservation Restoration and Renewal Team, LLC [BCRRT], 2010)

The planning information for conducting the Pilot Study MEC clearance activities are described in the following documents:

- Work Plan for RAU 3 WSA Pilot Study (WESTON, 2016)
- Explosives Safety Submission, Amendment 3 (WESTON, 2015)

1.3 OBJECTIVES AND SCOPE

The project objective was to clear MEC and MPPEH from the ground surface to 3 bgs at the areas shown on Figure 2. Results of the Pilot Study will be evaluated to assist in determining what further clearance actions, if any, are appropriate for the remaining accessible portions of the WSA.

The project scope included preparation of project plans; acquiring regulatory permits; surface MEC/MPPEH removal; removing and/or blow-in-place suspected MEC/MPPEH items; disposition of items encountered; providing technical support to Clark County; and preparation of this SSFR.

1.4 PROJECT LOCATION AND HISTORY

The former CBMR comprises approximately 3,840 acres and is located in Clark County, Washington, approximately five miles east of the city limits of Vancouver and approximately 3.5 miles north of the city limits of Camas (Figure 1).

The former CBMR was used by the Army for live fire of small arms, artillery, and field and air defense artillery training between 1910 and 1995. Since 1947, CBMR provided training for a

variety of military and nonmilitary units from the National Guard, Reserves, U.S. Air Force, and federal, state, and local law enforcement agencies. In the early 1950s the Department of Defense (DOD) arranged to lease an additional 840 acres from the State of Washington Department of Natural Resources to expand training possibilities of the post. The facility was also used for weekend and summer training by the U.S. Army Reserve units in southern Washington and northern Oregon and just before property transfer in October 2006 was a sub-installation of Fort Lewis.

In July of 1995, CBMR was selected for closure under the Base Realignment and Closure process. Since CBMR was officially closed, numerous investigations have been conducted by the Army and its consultants in order to characterize the nature and extent of contamination at the site and to develop a plan for potentially transferring ownership. The reuse plan (Camp Bonneville Local Redevelopment Authority, 2005) called for CBMR to be transferred to Clark County, Washington for public benefit including education, law enforcement training, parks, and conservation areas. In October 2006, the Army transferred ownership of the property to Clark County via a conservation conveyance for remediation and subsequent development as a regional park. Clark County immediately transferred ownership to the BCRRT. BCRRT held the deed of the property during investigation and cleanup activities at the site from 2006 thru 2011 at which time the property transferred back to Clark County.

The WSA includes approximately 600 acres along the western portion of the former CBMR, of which approximately 425 acres have slopes less than 25 degrees. The remainder have slopes greater than 25 degrees, are considered steep, and expected to have limited access. The WSA Pilot Study clearance areas include approximately 17 acres adjacent to the CVFAW (Figure 2). Usage of the WSA was limited to non-live fire exercises such as troop movement, hand-to-hand combat, practice assaults/defense bayonet and obstacle courses. Pyrotechnics and blank ammunition were typically employed to evaluate the reactionary responses of troops and convoys to an ambush and to train in tactics. Military munitions containing high explosives were not used for reactionary training. The WSA is located in the proposed Regional Park, which is designated for limited access medium intensity reuse (BCRRT, 2010).

1.5 PUBLIC INVOLVEMENT

Clark County managed initial public involvement through the Camp Bonneville Citizen's Advisory Group which had its first meeting on February 21, 2007. Since 2012, the Camp Bonneville Citizen's Advisory Group has not been meeting while the project has been focused on cleanup; however Clark County intends to resume meeting once more of the cleanup has been completed. Regardless of the Advisory Group meetings, the public is notified of certain documents when they are available for public review. These documents included the Remedial Investigation/Feasibility Study (RI/FS) Report and Cleanup Plan for RAU 3.

A notice was issued requesting the public to review and comment on the Draft RI/FS for RAU 3 (PARSONS, 2014) and the Draft CAP for RAU 3 (BCRRT, 2009). Each notice included the contact and address information where CBMR documentation is maintained at the Vancouver Mall Public Library and Washington State University Vancouver. In addition, open house meetings were conducted to present both documents. Open house to discuss the Draft RI/FS was held on September 8, 2005 and to discuss the Draft CAP on June 25, 2009. Responses to public comments were provided and where necessary the documents were revised to address the public comments.

During the cleanup activities at CBMR, Clark County has issued mailers periodically. The mailers provide general information on the cleanup, the current cleanup status, anticipated upcoming work to be conducted, and contact information for additional information. Clark County also hosts a website which contains general information about Camp Bonneville and the current status of the cleanup. The web address is <https://www.clark.wa.gov/public-works/camp-bonneville>.

1.6 TERMS USED TO DESCRIBE MUNITIONS

The following terms were used to describe munitions identified during clearance activities.

1.6.1 Material Potentially Presenting an Explosive Hazard

MPPEH is material that, prior to determination of its explosives safety status, potentially contains explosives or munitions (e.g., munitions containers and packaging material; munitions

debris remaining after munitions use, demilitarization, or disposal; range-related debris) or potentially contains a high enough concentration of explosives that the material presents an explosive hazard, such as equipment, drainage systems, holding tanks, piping, or ventilation ducts that were associated with munitions production, demilitarization, or disposal operations. Excluded from MPPEH are (1) military munitions, including wholly inert components, such as fins, launch tubes, containers, packaging material, that are to be used or reused for their intended purpose and are within a DOD Component-established munitions management system; (2) non-munitions-related material such as munitions debris that are solid metal fragments that do not realistically present an explosive hazard; and (3) other items that may present explosion hazards such as gasoline cans and compressed gas cylinders that are not munitions and are not intended for use as munitions.

Munitions constituents (MC) were considered MPPEH. MC includes any material originating from unexploded ordnance (UXO), discarded military munitions (DMM), or other military munitions, including explosive and nonexplosive materials, and emission, degradation, or breakdown elements of such ordnance or munitions (10 United States Code [USC] 2710(e)(3)). MC includes trinitrotoluene and other bulk high explosives.

1.6.2 Munitions and Explosives of Concern

MEC distinguishes specific categories of military munitions that may pose unique explosives safety risks. For this project, MEC is further categorized as UXO, as defined in 10 USC 101(e)(5)(A) through (C); or DMM, as defined in 10 USC 2710(e)(2).

UXO includes military munitions that have been primed, fuzed, armed, or otherwise prepared for action; have been fired, dropped, launched, projected, or placed in such a manner as to constitute a hazard to operations, installation, personnel, or material; and remain unexploded either by malfunction, design, or any other cause (10 USC 101(e)(5)(A) through (C)).

DMM includes military munitions that have been abandoned without proper disposal or removed from storage in a military magazine or other storage area for the purpose of disposal. The term does not include UXO, military munitions that are being held for future use or planned disposal,

or military munitions that have been properly disposed of consistent with applicable environmental laws and regulations (10 USC 2710(e)(2)).

1.6.3 Munitions Debris and Material Documented as Safe

Munitions debris and material documented as safe (MDAS) are materials that have been assessed and documented as not presenting an explosive hazard and for which the chain of custody has been established and maintained. This material is no longer considered to be an explosive hazard.

2. CLEANUP APPROACH AND METHODS

This section describes the approach and methods used during MEC and MPPEH clearance. Appendix A contains photographs of the activities conducted during the project.

2.1 MOBILIZATION AND TRAINING

The WSA Pilot Study munitions clearance was initiated on November 29, 2016 while Phase 1 and Phase 2 clearance activities were also being conducted. Personnel and equipment assigned to the Phase 1 and 2 clearance activities were also used during the WSA Pilot Study. All project personnel participating in field activities met the minimum training required in 29 Code of Federal Regulations 1910.120 Hazardous Waste Operations and Emergency Response. UXO Technicians were trained based on the requirements contained in the Department of Defense Explosives Safety Board Technical Paper 18, “Minimum Qualifications for Personnel Conduction Munitions and Explosives of Concern-Related Activities” (Department of Defense Explosives Safety Board, 2016). Each of the field team members attended training for archaeological awareness and biological avoidance measures for protection of wetlands and wetland species.

CBMR is currently closed and not accessible to the public. A perimeter fence surrounds the site and warning signs are located on gates and fencing to advise the public of no trespassing. Access to the work areas was strictly controlled during the munitions clearance. In addition, a MEC exclusion zone was established around areas where munitions clearance, MEC/MPPEH destruction, and other potential MEC/MPPEH handling activities were being performed. During these activities, only persons designated as “essential personnel” were allowed access within the established MEC exclusion zone.

2.2 CULTURAL AND HISTORICAL RESOURCES PROTECTION

Requirements for protection of cultural resources included collecting and recording locations of any historic-period archaeological items encountered, including those artifacts listed in the Cultural and Historical Protection Plan (Archaeological Investigation Northwest, Inc., 2014). However no such items were encountered during the WSA Pilot Study munitions clearance.

2.3 WETLANDS PROTECTION

No wetlands were present in the WSA Pilot Study area, although portions of the Pilot Study area were adjacent to wetland areas in the CVFAW where wetlands protection was conducted. All work in or near a wetland area was completed using reasonable and prudent measures to minimize impact to the wetlands.

2.4 ESTABLISH SURVEY CONTROL POINTS

Survey control monuments were established by a professional surveyor licensed in the State of Washington from Minister and Glaeser Land Surveyors. A professional surveyor from Minister and Glaeser Land Surveyors also delineated the Phase 2 clearance areas to within 1-foot accuracy. The 500-foot grids established for the CVFAW during Phase 1 clearance activities were extended to the Pilot Study areas to assist with overall navigation and tracking clearance activities. Two separate areas of the WSA measuring 100 feet wide each and adjacent to the CVFAW clearance boundary were used to conduct the Pilot Study. The 100-foot wide WSA areas were further divided into 74 approximately 10,000 square foot sections for the munitions clearance activities (Figure 3).

2.5 INSTRUMENT VERIFICATION STRIP

The instrument verification strip (IVS) established for Phase 1 activities in an area of similar soil conditions as RAU 3 was used to confirm each geophysical instrument was working appropriately. Industry standard metallic seeds were buried in the horizontal orientation at depths between seven and ten times their diameters. The metal detectors were initially tested and adjusted to detect all seed items in the IVS. The resulting standard instrument settings, based on the lowest settings required to detect all seed items were used throughout the project. The targets were reacquired daily during operational tests to verify the instrument readings were not significantly different and all were appropriately working.

2.6 SURFACE SWEEP

Prior to beginning vegetation removal, a visual surface sweep was conducted to identify any surface hazards that could be encountered, including MEC, MPPEH, steep terrain, vegetation, wildlife, and other environmental concerns. The visual identification and removal of surface MEC and MPPEH items was assisted using ferrous metal detectors.

2.7 VEGETATION REMOVAL

Grasses, brush, and small trees were either removed or cut to within six inches above the ground surface to prevent interference with the location of geophysical anomalies. Brush-removal crews utilized a combination of mechanical and manual equipment to cut or remove vegetation to a maximum height of approximately six inches above ground surface. The maximum diameter of trees cut during brush cutting was six inches. Mechanical equipment was not used within 15 feet of a pond or surface water body. Cut brush and deadfall were placed in nearby areas outside of the clearance area in the CVFAW.

2.8 ANALOG ANOMALY LOCATION AND REMOVAL

The WSA Pilot Study clearance was conducted in all areas using analog geophysical instruments to identify anomaly locations for removal. During analog clearance, UXO qualified personnel used handheld geophysical instruments to locate MEC, MPPEH, and other metallic items in a “mag and dig” process. Schonstedt Cx52 ferromagnetic metal detectors were used to locate surface anomalies from 0 to 3 inches bgs.

Analog surveys were conducted in search lanes that varied in width between three and five feet, depending on the terrain of the 10,000 square foot area being surveyed. Individual search lanes suitable for the equipment and terrain were established and optimized based on site conditions and lanes. Lanes were delineated with line, flags, marking paint and/or marking tape. UXO Technicians walked each lane, moving the analog locator back and forth in a sweeping motion from one side of the lane to the other at a pace that ensured that the entire lane was searched and that the instrument was able to appropriately respond to subsurface anomalies. Whenever an anomaly was encountered, the location was excavated. All potential MEC and MPPEH items

encountered were documented on MEC information forms along with the description, quantity, and location of items encountered. The identification, excavation and removal of anomalies was performed in real time as the UXO team progressed through each grid. There were no areas of the Pilot Study deemed inaccessible.

Anomaly locations were excavated manually using a shovel to remove dirt to expose the anomaly for identification/removal. The overburden was placed on the uphill side of the area and immediately returned to the excavation following anomaly removal.

2.9 MEC IDENTIFICATION

The correct identification and classification of all encountered munitions items was critical to their safe handling and proper disposition. Each munitions item was carefully examined after it was encountered to determine if it was safe to move, or if it posed an immediate explosive hazard. Items determined unsafe to move by the Unexploded Ordnance Safety Officer (UXOSO) and SUXOS were blown-in-place using sand bag fragment mitigation techniques.

MEC and MPPEH items determined safe to move by the UXOSO and SUXOS were relocated to the secure area in the Central Impact Target Area (CITA) for later destruction. Items determined to be small arms, munitions debris, and MDAS were stored in 55-gallon steel drums in a secure location at CBMR. Scrap metal items were stored in roll-off containers.

2.10 FIELD ACTIVITY TIMELINE

The start and end dates for the key field activities discussed in this section are listed below.

Task	Date(s)
Begin site mobilization	11/29/2016 ^a
Vegetation removal	11/29/2016 through 12/21/2016
Analog anomaly location and removal	1/26/2017 through 2/24/2017
Anomaly clearance completed	2/24/2017
Blow-in-place and demolition activities	2/7/2017 through 2/28/2017
Material documented as safe disposition	4/6/2017

Task	Date(s)
Scrap metals disposition	2/14/2017 through 3/9/2017

Notes:

- a A separate mobilization was not conducted for the WSA Pilot Study clearance activities because work was being conducted concurrently with on-going Phase 1 and 2 clearance activities.

3. MUNITIONS CLEARANCE RESULTS

Anomaly locations excavated during the WSA Pilot Study clearance are listed in Appendix B, the project dig sheet. The project dig sheet contains all MEC/MPPEH and MDAS anomaly locations excavated; however, all scrap metal locations were not tracked in the dig sheet. The dig sheet is sorted to present information by 10,000 square foot sections as shown on Figure 3. In addition the Microsoft® Excel files are included on the compact disk submittal for this SSFR.

3.1 RECOVERED MEC AND MPPEH

One MEC item was recovered during the WSA Pilot Study; an Mk1 37-millimeter projectile in Grid L19-5 (Figure 3). The MEC/MPPEH documentation forms included in Appendix C were initiated each time a potential MEC or MPPEH item was encountered. The forms are numbered sequentially beginning with 0315 through 0337 and include Phase 1 and 2 MEC/MPPEH forms for items recovered during the same period. As shown on the forms, item descriptions and classifications were revised when necessary to reflect the final inspection or detonation results of each item. MEC and MPPEH items from 500-foot Grids G-5, I-12, K-15, and M-19 listed on Forms 0315 through 0337 are not included in this SSFR. Items recovered from Grids I-12, K-15, and M-19 are included in the Phase 1 SSFR for the CVFAW (WESTON, 2017a). Items recovered from Grid G-5 are included in the Phase 2 SSFR for target areas outside of the CVFAW (WESTON, 2017b).

MEC/MPPEH items were assessed and their explosives safety status determined as they were encountered. As discussed above, the MEC/MPPEH documentation forms were revised when necessary to document the category determined during the final inspection or detonation. Items or materials that were determine unsafe to move were blown-in-place. Items that were initially assumed to be MEC or MPPEH but were safe to move were stored at the CITA for detonation within a maximum 90 day holding period. Some MEC/MPPEH items that were disposed of by either blow-in-place or during detonation events at the CITA were reclassified as MDAS based on lack of high-order characteristics of the resulting explosion.

3.2 RECOVERED MATERIAL DOCUMENTED AS SAFE

MPPEH items that were determined not to pose an explosive hazard after a 100% inspection by the SUXOS and Unexploded Ordnance Quality Control Specialist (UXOQCS) were reclassified as MDAS. The reclassified items were contained in 55-gallon steel drums along with other recovered inert munitions debris and MDAS items. Small arms were also classified as MDAS and contained in 55-gallon steel drums during storage. A total of 300 pounds of MDAS were recovered during the WSA Pilot Study MEC clearance activities.

3.3 RECOVERED SCRAP METAL

During the MEC clearance activities, items such as wire, nails, metal piping and other metal debris, that were possible to remove were contained in rolloff bins. As previously described above, a portion of the Phase 1 and 2 MEC clearance activities were conducted concurrently with the WSA Pilot Study clearance. Recovered scrap metal items were not segregated during this overlap of MEC clearance activities; therefore, the weight of scrap metal disposed of in 2017 includes the Phase 1 and 2 clearance activities as well as the WSA Pilot Study. From the start of the WSA Pilot Study clearance activities in November 2016 through February 14, 2017, a total of 8,380 pounds of scrap metal were recycled from the Phase 1, Phase 2, and WSA Pilot Study areas. An additional 10,420 pounds of scrap metal were recycled from the Phase 2 and WSA Pilot Study areas on March 9, 2017.

3.4 RECOVERED ARCHAEOLOGICAL ARTIFACTS

An Archaeological Investigation Northwest, Inc. archaeologist performed monthly visits to CBMR during MEC clearance activities from November 2016 to February 2017. The archaeologist sorted through recovered scrap metal to determine if any metal items of significance were not identified. There were no archaeological items collected from the WSA Pilot Study areas of RAU 3.

3.5 INACCESSIBLE AREAS AND ANOMALY LOCATIONS NOT CLEARED

There were no inaccessible areas encountered during the WSA Pilot Study. As recommended in the RAU 3 CAP, surface (0 to 3 inches bgs) MEC cleanup is required for the 425 acres of the WSA that have slopes of 25 degrees or less. Although the 17 acre WSA Pilot Study areas were cleared to 3 inches bgs, anomalies remained below the 3-inch clearance depth.

3.6 FUTURE PLANNED/REQUIRED ACTIVITIES

As stated in Section X of the Amended PPCD (WDOE and Clark County Superior Court, 2012), institutional controls and engineering controls are required at RAU 3 to restrict certain activities, limit access to certain portions of the property, and ensure the continued protection of human health and safety following the remediation actions. The institutional controls will be enforced by a Restrictive Covenant that describes those controls. At the completion of cleanup activities at RAU 3, a Long-Term Operation and Maintenance Plan will be prepared for the property to establish maintenance requirements for long-term effectiveness of the cleanup. The Long-Term Operating and Maintenance Plan will also provide a plan for protection of cultural and historical resources.

4. SITE RESTORATION

Excavated anomaly locations were backfilled using the soil from the location.

5. DISPOSITION OF RECOVERED MATERIAL

MEC, MDAS, and scrap metal items were recovered during the WSA Pilot Study clearance. Disposition of these items are described in the following sections.

5.1 MEC AND MPPEH

All items and materials characterized as MEC and MPPEH were detonated at CBMR. Items or materials that were determined unsafe to move were blown-in-place. Items that were initially assumed to be MEC or MPPEH but were safe to move were stored at the CITA and detonated within the maximum 90-day holding period. Some MEC/MPPEH items that were disposed of by either blow-in-place or during detonation events at the CITA were reclassified as MDAS based on the lack of high order characteristics of the resulting explosion. As previously mentioned, the MEC/MPPEH documentation forms (Appendix C) were revised as necessary to reflect the final munitions category appropriate for the recovered item.

A total of two blow-in-place events were conducted for the WSA Pilot Study clearance. One additional consolidated detonation was conducted during the WSA Pilot Study clearance and overlapping portions of the Phase 1 and 2 activities. The demolition events were conducted in February 2017. Upon completion of each demolition event, an ammunition consumption report was completed which certified in writing that the explosives were used for their intended purpose. Blow-in-place and detonation events are recorded on the MEC/MPPEH documentation forms provided in Appendix C.

Donor explosives used for blow-in-place and demolition events were purchased from Timber Supply Explosives, Inc. and Owen Oil Tools LP. Only the SUXOS, UXOQCS and UXO Technicians on the Purchase/Receipt Authorization List accepted explosives from the supplier. Donor explosives were stored in two sited Bureau of Alcohol, Tobacco, and Firearms Type 2 magazines, one having an attached detonator box. The onsite transportation of explosives and demolition activities were conducted in accordance with all local, state and federal requirements.

5.2 RECOVERED MATERIAL DOCUMENTED AS SAFE

Munitions debris and other inert munitions items were considered MDAS. MDAS was stored in 55-gallon steel drums in a secure area of CBMR. The 300 pounds of MDAS recovered from the WSA Pilot Study areas were received at Bonetti Explosives, LLC located in Columbus, Texas for demilitarization on April 6, 2017. The MDAS tracking and disposition documents are included in Appendix D.

5.3 RECOVERED SCRAP METAL

Scrap metal was stored in rolloff bins at CBMR during the clearance activities. The 18,800 pounds of scrap metal recovered during the WSA Pilot Study as well as portions of the Phase 1 and 2 clearance activities were recycled on February 14, 2017 and March 9, 2017. The scrap metal disposition documents are included in Appendix E.

6. QUALITY CONTROL ACTIVITIES AND RESULTS

6.1 DATA COLLECTION AND MANAGEMENT

The SUXOS was responsible for the overall quality of the collected data during fieldwork. The SUXOS Daily Reports are provided in Appendix F. The UXOQCS ensured that data collected met the requirements of the project data quality objectives by reviewing a random sample of data collection sheets for completeness and conformance to data protocols, and by reviewing the accompanying photographic records for visual verification of the data.

The WESTON UXOQCS reviewed the completed electronic forms and accompanying photographs to ensure accurate data input. The WESTON UXOQCS also reviewed a random sampling of the completed electronic forms and compared them with the field forms to ensure the field data was correctly entered.

6.2 EQUIPMENT CALIBRATION AND PROVE-OUT

As part of the geophysical system verification approach, the project team constructed an IVS in an area of the site free of anomalies. The IVS was seeded with MEC-sized target items in order to validate that the geophysical instrumentation is achieving detection performance metrics as established in the work plan. IVS data was collected daily both pre- and post-production in conjunction with other standard quality control tests, which provided daily verification that the geophysical instruments were operating within their design parameters.

6.3 ANOMALY EXCAVATION

To ensure that all MEC, MPPEH, and other metallic debris were removed, the UXOQCS performed quality control (QC) inspections on a minimum of 20 percent of each grid after anomaly excavation was completed. A QC failure was documented during the inspection when any of the following performance metrics were exceeded:

1. Any one MEC/MPPEH item remaining in a grid
2. Any inert blind seed item, one whole MDAS or munitions debris item equal to or larger than a 14.5-millimeter sub caliber projectile remaining in a grid

3. Five metal items, MDAS or munitions debris fragments ranging in size from two square inches up to eight square inches remaining in a grid
4. One metal item, MDAS or munitions debris fragment equal to or greater than eight square inches remaining in a grid
5. Small arms greater than or equal to .50 caliber (projectile and case) remaining in a grid
6. Five small arms casings greater than or equal to .50 caliber remaining in a grid

Small arms less than or equal to .50 caliber (projectile only) was not considered munitions debris and did not count toward the five metal item limit. There were no grid QC failures during the WSA Pilot Study clearance activities.

A blind seeding program was also implemented as a QC component of the geophysical system verification to monitor performance of the anomaly survey and removal operations. Blind seeds were placed at a frequency of one per acre throughout the investigation areas. The blind seeds consisted of small industry standard objects (1-inch by 4-inch pipe nipples) buried up to three inches bgs and placed at random orientations. The location depth/orientation of each blind seed was recorded with positions determined using tape measures because the tree canopy prevented use of a Global Positioning System. One hundred percent of all QC seeds were recovered during the WSA Pilot Study clearance activities.

6.4 LESSONS LEARNED

As a result of the lessons learned during the RAU 3 Phase 1 clearance of the CVFAW, continued clearance in the WSA Pilot Study areas was conducted using a “mag and dig” process utilizing analog survey instruments to identify anomaly locations. There were no documented lessons learned during the WSA Pilot Study clearance activities.

6.5 FIELD VARIANCE FORMS

There were no Field Variance Forms completed during the WSA Pilot Study clearance activities.

7. QUALITY ASSURANCE ACTIVITIES AND RESULTS

7.1 QUALITY ASSURANCE ACTIVITIES

Project quality assurance (QA) activities were performed by the Clark County Public Works Department and the WDOE. General QA activities conducted at the project site included: periodic inspections of WESTON's compliance with DOD, Department of the Army, Explosives Safety Submission (WESTON, 2015) requirements, and explosives-related procedures described in the approved Work Plan (WESTON, 2016). QA verification was conducted through unscheduled periodic site visits and onsite QA inspections of clearance and MEC destruction activities.

7.2 QUALITY ASSURANCE FAILURES REQUIRING CORRECTIVE ACTIONS

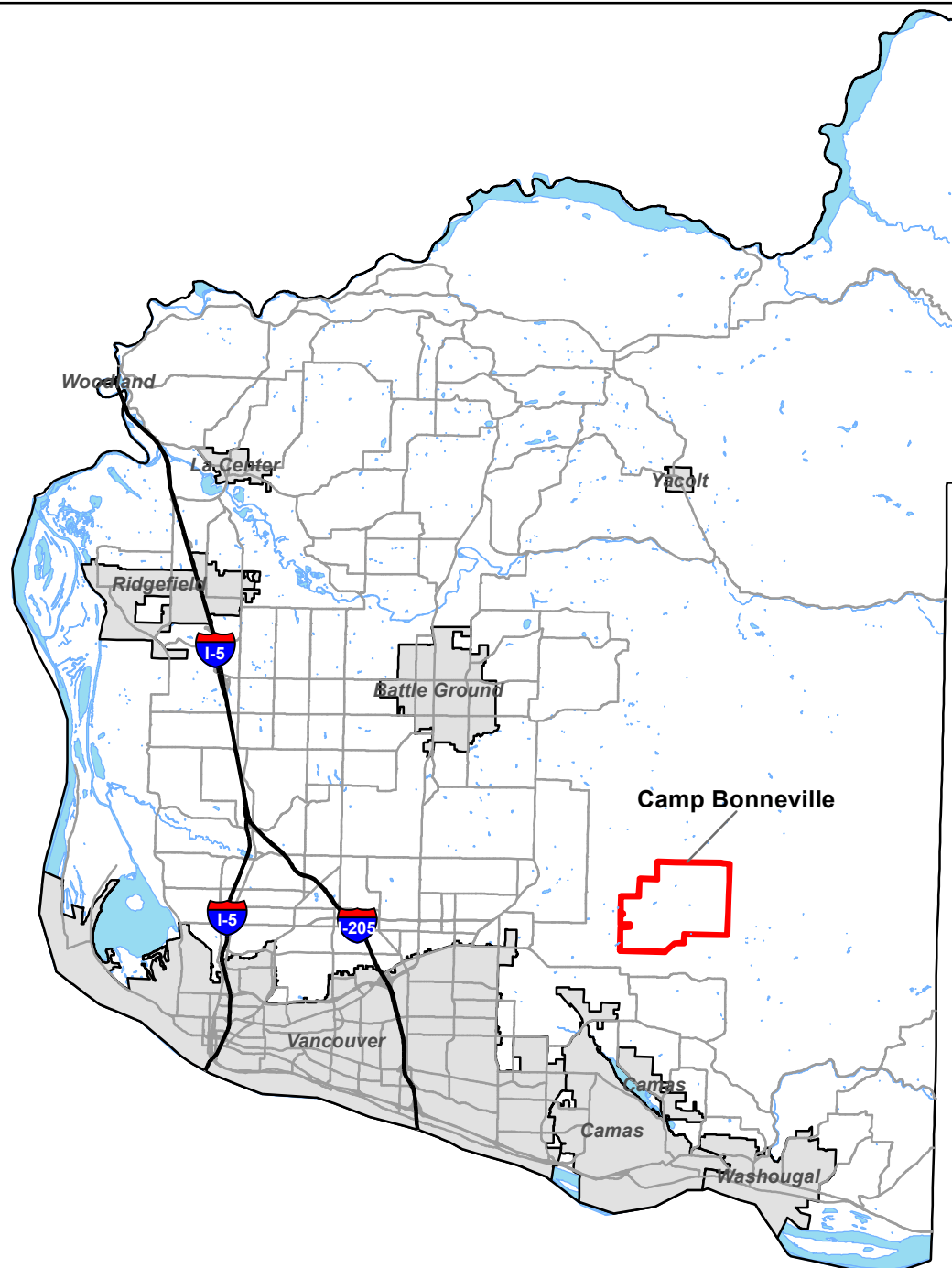
There were no QA failures documented during the WSA Pilot Study clearance activities.

8. REFERENCES

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- WESTON. 2016. *Work Plan Munitions and Explosives of Concern Surface Clearance, Western Slopes Area Pilot Study, Remedial Action Unit 3 (RAU 3), Former Camp Bonneville Military Reservation, Vancouver, Washington*. October.
- WESTON. 2017a. *Site-Specific Final Report Munitions and Explosives of Concern, Remedial Action Unit 3, Central Valley Floor and Associated Wetlands, Former Camp Bonneville Military Reservation, Vancouver, Washington*.

WESTON. 2017b. *Site-Specific Final Report Munitions and Explosives of Concern, Remedial Action Unit 3 Phase 2, Former Camp Bonneville Military Reservation, Vancouver, Washington.*

FIGURES



N



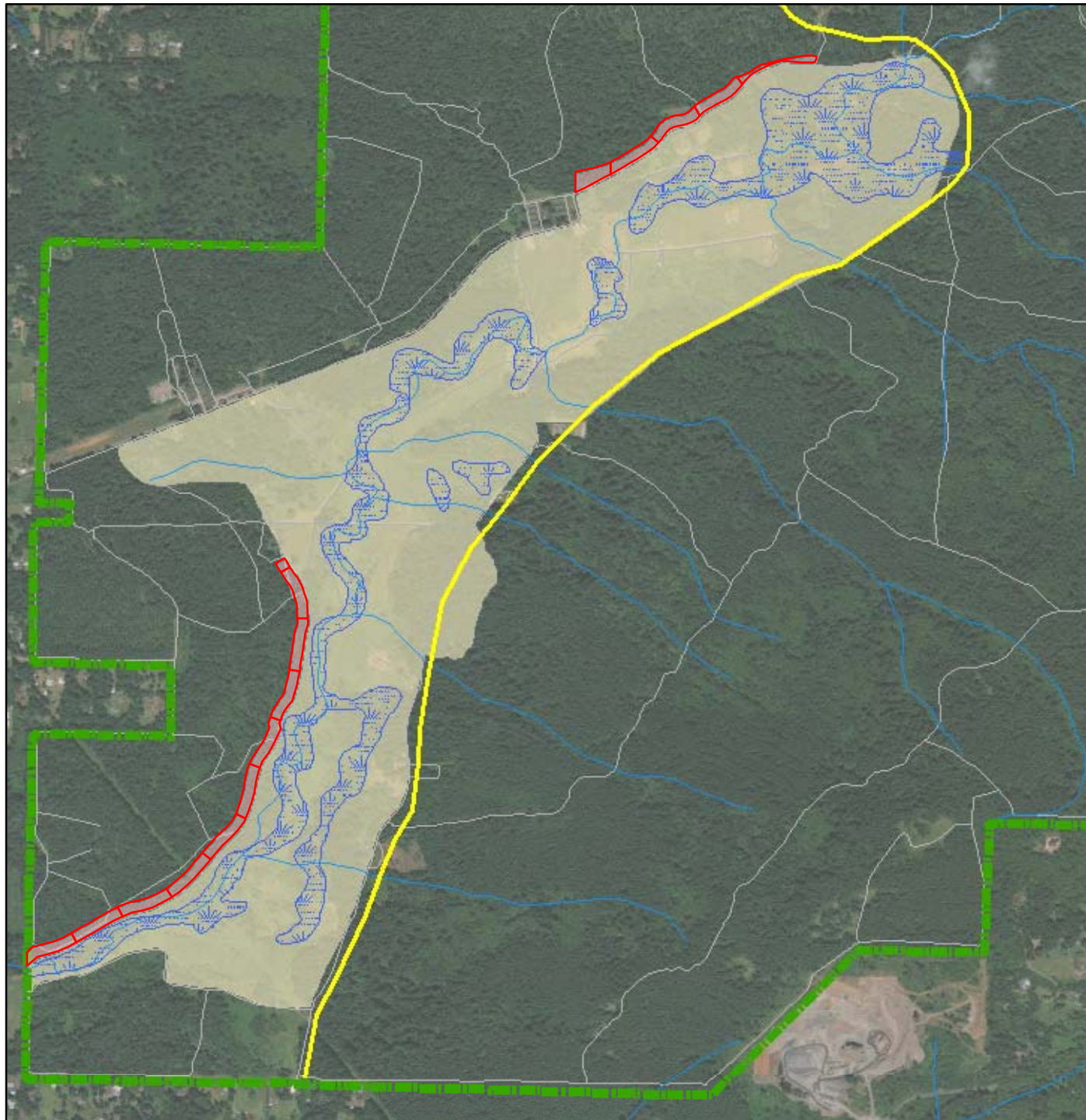
0 2.5 5 10 Miles

Clark County Public Works

FIGURE 1 **FORMER CAMP BONNEVILLE** **MILITARY RESERVATION LOCATION**

Former Camp Bonneville Military Reservation
 Vancouver, Washington





LEGEND

-  Western Slopes Pilot Study
-  Property Boundary
-  Central Valley Floor and Wetlands Boundary
-  Wetlands
-  Park Boundary
-  Stream
-  Road



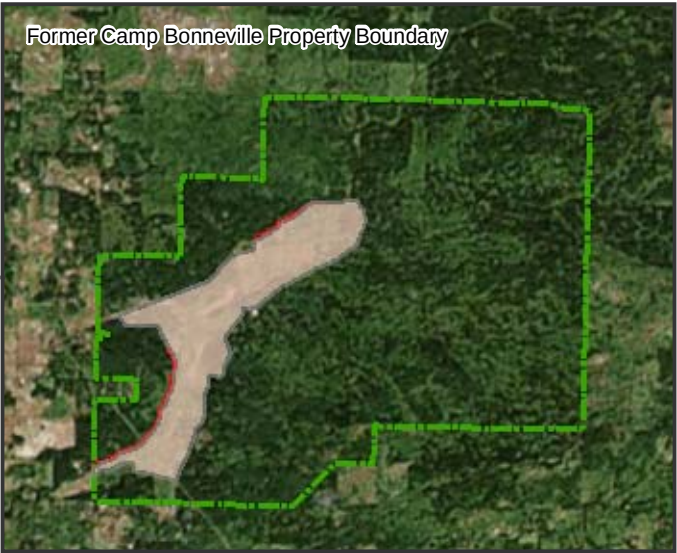
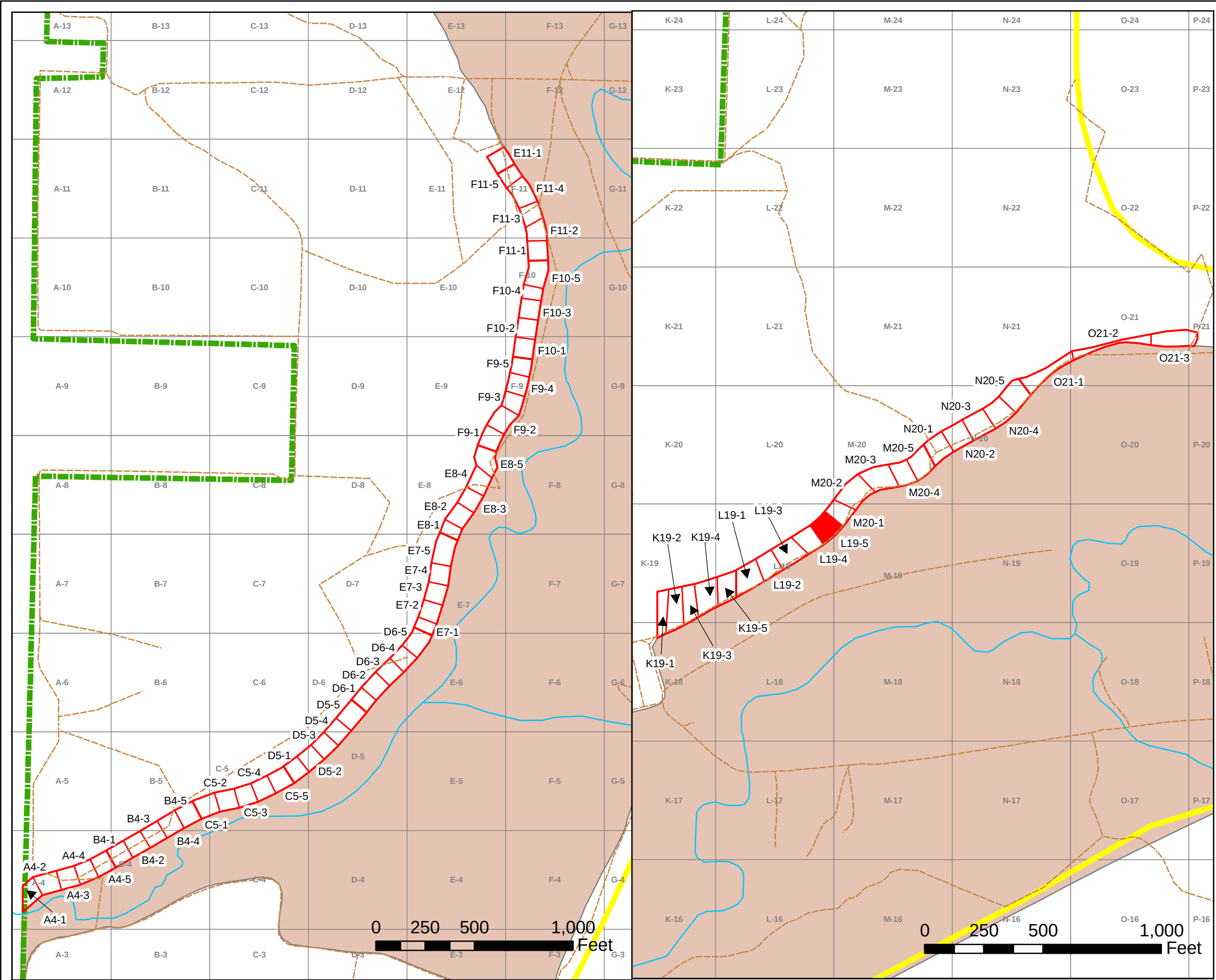
0 500 1,000 2,000
Feet

Clark County Public Works

FIGURE 2 WESTERN SLOPES AREA PILOT STUDY AREAS

Former Camp Bonneville Military Reservation
Vancouver, Washington





LEGEND

- Western Slopes Pilot Study
- Central Valley Area (RAU3 Phase 1)
- Property Boundary
- Park Boundary
- Stream / River
- Road
- MEC/MPPEH Category Recovered**
 - UXO

Clark County Public Works

FIGURE 3 WESTERN SLOPES AREA RECOVERED MEC AND MPPEH GRIDS

Former Camp Bonneville Military Reservation
Vancouver, Washington



APPENDIX A
PROJECT PHOTOGRAPHS



Western Slopes Area



Surface sweep before brush cutting



Establishing search lanes using rope



Munitons clearance operations in Western Slopes Area

APPENDIX B
DIG SHEET DATA (CD Only)

Appendix B
Dig Sheet Data
Western Slopes Pilot Study
Former Camp Bonneville Military Reservation

Project_Site_Name	Area_Of_Concern_Name	Search_Area_Type	Search_Area_ID	Field_Team_Name	InstrumentResponse	SurfacePointType	SurfacePointSubType	Northing	Easting	Item_Number	Item_Count	Log_Date	Logged_By	Is_MEC	Item_Category	Item_Type	MEC_Category	MEC_Description	MEC_Part	MEC_Condition	Depth	Weight	Item_Current_Status	Comments	Requires_Further_Action	Hole_Cleared	UXO_QC_Completed	UXOQCBy	UXOQCDate	QC_Final_LandUse		
Western Slopes	Western Slopes	Grid	A4-1	BON02		Analogue Near Surface (0-3")		201.00	201.00	FALSE	201	1	2/8/2017 16:38	Seth Moberly	FALSE	Cultural Debris	Metal Scrap				3.00	11.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/13/2017 0:00	FALSE		
Western Slopes	Western Slopes	Grid	A4-2	BON02		Analogue Near Surface (0-3")		202.00	202.00	FALSE	202	1	2/8/2017 16:43	Seth Moberly	FALSE	Cultural Debris	Metal Scrap	Practice	3in MKI (Stokes)	Body	invert		3.00	10.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/13/2017 0:00	FALSE
Western Slopes	Western Slopes	Grid	A4-2	BON02		Analogue Near Surface (0-3")		203.00	203.00	FALSE	203	1	2/8/2017 16:44	Seth Moberly	FALSE	Seed	Blind QC 1" x 4" pipe					3.00	0.50	Stockpiled	Blind QC Seed #W011	FALSE	TRUE	TRUE	Michael Everman	2/13/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	A4-3	BON02		Analogue Near Surface (0-3")		201.00	201.00	FALSE	201	1	2/9/2017 16:22	Jack Kristensen	FALSE	Cultural Debris	Metal Scrap					3.00	10.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/13/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	A4-4	BON02		Analogue Near Surface (0-3")		203.00	203.00	FALSE	203	1	2/13/2017 16:13	Seth Moberly	FALSE	Munitions Debris	View, Surface Trip	Illumination	M48 series	Body	invert		3.00	0.50	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/13/2017 0:00	FALSE
Western Slopes	Western Slopes	Grid	A4-4	BON02		Analogue Near Surface (0-3")		202.00	202.00	FALSE	202	1	2/13/2017 16:18	Seth Moberly	FALSE	Small Arms	Other					2.00	0.20	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/13/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	A4-4	BON02		Analogue Near Surface (0-3")		203.00	203.00	FALSE	203	1	2/13/2017 16:18	Seth Moberly	FALSE	Cultural Debris	Metal Scrap					3.00	21.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/13/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	A4-5	BON02		Analogue Near Surface (0-3")		201.00	201.00	FALSE	201	1	2/23/2017 16:44	Jack Kristensen	FALSE	Cultural Debris	Metal Scrap					3.00	1.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/13/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	B4-3	BON02		Analogue Near Surface (0-3")		201.00	201.00	FALSE	201	1	2/15/2017 16:34	Jack Kristensen	FALSE	Cultural Debris	Metal Scrap					3.00	5.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/13/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	B4-3	BON02		Analogue Near Surface (0-3")		201.00	201.00	FALSE	201	1	2/15/2017 16:08	Jack Kristensen	FALSE	Cultural Debris	Metal Scrap					3.00	2.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/13/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	B4-3	BON02		Analogue Near Surface (0-3")		201.00	201.00	FALSE	201	1	2/21/2017 15:31	Jack Kristensen	FALSE	Cultural Debris	Metal Scrap					3.00	1.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/24/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	B4-4	BON02		Analogue Near Surface (0-3")		201.00	201.00	FALSE	201	1	2/21/2017 16:02	Jack Kristensen	FALSE	Cultural Debris	Metal Scrap					3.00	2.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/24/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	B4-4	BON02		Analogue Near Surface (0-3")		202.00	202.00	FALSE	202	1	2/24/2017 16:03	Jack Kristensen	FALSE	Seed	Blind QC 1" x 4" pipe					3.00	0.50	Stockpiled	#010	FALSE	TRUE	TRUE	Michael Everman	2/24/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	C5-1	BON03		Analogue Near Surface (0-3")		301.00	301.00	FALSE	301	1	2/12/2017 15:28	Clark Sorenson	FALSE	Cultural Debris	Metal Scrap					3.00	12.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/14/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	C5-1	BON03		Analogue Near Surface (0-3")		302.00	302.00	FALSE	302	1	2/12/2017 15:28	Clark Sorenson	FALSE	Seed	Blind QC 1" x 4" pipe					3.00	1.00	Stockpiled	seed w009	FALSE	TRUE	TRUE	Michael Everman	2/24/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	C5-2	BON03		Analogue Near Surface (0-3")		301.00	301.00	FALSE	301	1	2/16/2017 15:40	Clark Sorenson	FALSE	Cultural Debris	Metal Scrap					3.00	8.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/24/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	C5-3	BON03		Analogue Near Surface (0-3")		301.00	301.00	FALSE	301	1	2/15/2017 15:43	Clark Sorenson	FALSE	Cultural Debris	Metal Scrap					3.00	16.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/21/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	C5-4	BON03		Analogue Near Surface (0-3")		301.00	301.00	FALSE	301	1	2/15/2017 15:47	Clark Sorenson	FALSE	Cultural Debris	Metal Scrap					3.00	12.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/21/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	C5-5	BON03		Analogue Near Surface (0-3")		301.00	301.00	FALSE	301	1	2/14/2017 16:14	Clark Sorenson	FALSE	Cultural Debris	Metal Scrap					3.00	15.00	Stockpiled		FALSE	TRUE	FALSE	FALSE	Michael Everman	2/21/2017 0:00	FALSE
Western Slopes	Western Slopes	Grid	D5-1	BON03		Analogue Near Surface (0-3")		301.00	301.00	FALSE	301	1	2/13/2017 16:43	Pedro Vallejo	FALSE	Cultural Debris	Metal Scrap					3.00	7.25	Stockpiled		FALSE	TRUE	FALSE	FALSE	Michael Everman		FALSE
Western Slopes	Western Slopes	Grid	D5-1	BON03		Analogue Near Surface (0-3")		302.00	302.00	FALSE	302	1	2/13/2017 16:44	Pedro Vallejo	FALSE	Seed	Blind QC 1" x 4" pipe					3.00	0.50	NA	Blind QC Seed w008	FALSE	TRUE	FALSE	FALSE	Michael Everman		FALSE
Western Slopes	Western Slopes	Grid	D5-2	BON03		Analogue Near Surface (0-3")		301.00	301.00	FALSE	301	1	2/8/2017 13:39	Pedro Vallejo	FALSE	Cultural Debris	Metal Scrap					3.00	6.50	Stockpiled	wire	FALSE	TRUE	TRUE	Michael Everman	2/13/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	D5-3	BON03		Analogue Near Surface (0-3")		301.00	301.00	FALSE	301	1	2/8/2017 15:23	Pedro Vallejo	FALSE	Cultural Debris	Metal Scrap					3.00	34.00	Stockpiled	5' grounding rod/ wire	FALSE	TRUE	TRUE	Michael Everman	2/13/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	D5-4	BON03		Analogue Near Surface (0-3")		301.00	301.00	FALSE	301	1	2/8/2017 13:08	Pedro Vallejo	FALSE	Cultural Debris	Metal Scrap					3.00	15.00	Stockpiled	3" steel nails	FALSE	TRUE	TRUE	Michael Everman	2/13/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	D5-5	BON03		Analogue Near Surface (0-3")		301.00	301.00	FALSE	301	1	2/6/2017 16:06	Clark Sorenson	FALSE	Cultural Debris	Metal Scrap					3.00	6.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/13/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	D6-2	BON06		Analogue Near Surface (0-3")		601.00	601.00	FALSE	601	4	2/22/2017 15:53	Glenn Haupt	FALSE	Cultural Debris	Metal Scrap					1.00	1.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/24/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	D6-3	BON06		Analogue Near Surface (0-3")		601.00	601.00	FALSE	601	1	2/23/2017 16:41	Glenn Haupt	FALSE	Seed	Blind QC 1" x 4" pipe					1.00	1.00	Stockpiled	Blind QC Seed w007	FALSE	TRUE	TRUE	Michael Everman	2/24/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	E11-1	BON04		Analogue Near Surface (0-3")		401.00	401.00	FALSE	401	1	2/25/2017 15:28	Don Kean	FALSE	Munitions Debris	Cartridge				invert		3.00	0.25	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/6/2017 0:00	FALSE
Western Slopes	Western Slopes	Grid	E11-1	BON04		Analogue Near Surface (0-3")		402.00	402.00	FALSE	402	1	2/25/2017 15:28	Don Kean	FALSE	Munitions Debris	Grenade, Rifle		MSA1			3.00	2.00	Stockpiled	slap flare cartridge	FALSE	TRUE	TRUE	Michael Everman	2/6/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	E11-1	BON04		Analogue Near Surface (0-3")		403.00	403.00	FALSE	403	8	2/25/2017 15:22	Don Kean	FALSE	Munitions Debris	Grenade, Rifle		MSA1	Tail boom	invert		3.00	2.50	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/6/2017 0:00	FALSE
Western Slopes	Western Slopes	Grid	E11-1	BON04		Analogue Near Surface (0-3")		404.00	404.00	FALSE	404	1	2/25/2017 15:23	Don Kean	FALSE	Munitions Debris	Frag		MSA1			3.00	0.50	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/6/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	E11-1	BON04		Analogue Near Surface (0-3")		405.00	405.00	FALSE	405	1	2/25/2017 15:24	Don Kean	FALSE	Munitions Debris	Mortar			60mm Mortar	invert		3.00	0.50	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/6/2017 0:00	FALSE
Western Slopes	Western Slopes	Grid	E11-1	BON04		Analogue Near Surface (0-3")		406.00	406.00	FALSE	406	1	2/25/2017 15:25	Don Kean	FALSE	Small Arms	Other					3.00	1.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/6/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	E11-1	BON04		Analogue Near Surface (0-3")		407.00	407.00	FALSE	407	1	2/25/2017 15:25	Don Kean	FALSE	Seed	Blind QC 1" x 4" pipe					2.00	0.50	Stockpiled	Blind QC Seed # W-001	FALSE	TRUE	TRUE	Michael Everman	2/6/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	E11-1	BON04		Analogue Near Surface (0-3")		408.00	408.00	FALSE	408	1	2/25/2017 15:26	Don Kean	FALSE	Cultural Debris	Metal Scrap					3.00	20.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/6/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	E7-1	BON03		Analogue Near Surface (0-3")		301.00	301.00	FALSE	301	1	2/22/2017 15:46	Clark Sorenson	FALSE	Cultural Debris	Metal Scrap					3.00	14.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/24/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	E7-2	BON03		Analogue Near Surface (0-3")		301.00	301.00	FALSE	301	1	2/23/2017 16:23	Clark Sorenson	FALSE	Cultural Debris	Metal Scrap					3.00	11.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/24/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	E7-2	BON03		Analogue Near Surface (0-3")		302.00	302.00	FALSE	302	1	2/23/2017 16:23	Clark Sorenson	FALSE	Seed	Blind QC 1" x 4" pipe					3.00	1.00	Stockpiled	seed w009	FALSE	TRUE	FALSE	FALSE	Michael Everman		FALSE
Western Slopes	Western Slopes	Grid	E7-3	BON03		Analogue Near Surface (0-3")		301.00	301.00	FALSE	301	1	2/24/2017 7:01	Clark Sorenson	FALSE	Cultural Debris	Metal Scrap					3.00	10.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/24/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	E8-1	BON05		Analogue Near Surface (0-3")		501.00	501.00	FALSE	501	1	2/21/2017 16:05	Clayton Daniels	FALSE	Cultural Debris	Iron Scrap					1.00	2.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/24/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	E8-2	BON05		Analogue Near Surface (0-3")		501.00	501.00	FALSE	501	1	2/22/2017 16:13	Clayton Daniels	FALSE	Cultural Debris	Iron Scrap					3.00	0.25	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/24/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	E8-3	BON04		Analogue Near Surface (0-3")		401.00	401.00	FALSE	401	1	2/23/2017 16:54	Don Kean	FALSE	Small Arms	Other					3.00	2.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/24/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	E8-3	BON04		Analogue Near Surface (0-3")		402.00	402.00	FALSE	402	1	2/23/2017 16:54	Don Kean	FALSE	Cultural Debris	Metal Scrap					3.00	1.50	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/24/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	E8-4	BON04		Analogue Near Surface (0-3")		401.00	401.00	FALSE	401	1	2/22/2017 14:22	Wes Bain	FALSE	Cultural Debris	Metal Scrap					3.00	5.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/24/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	E8-4	BON04		Analogue Near Surface (0-3")		401.00	401.00	FALSE	402	1	2/22/2017 14:24	Wes Bain	FALSE	Seed	Blind QC 1" x 4" pipe					2.00	0.50	Stockpiled	QA Seed #w005	FALSE	TRUE	TRUE	Michael Everman	2/24/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	E8-5	BON04		Analogue Near Surface (0-3")		401.00	401.00	FALSE	401	1	2/22/2017 15:08	Don Kean	FALSE	Cultural Debris	Metal Scrap					3.00	1.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/24/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	E8-6	BON04		Analogue Near Surface (0-3")		401.00	401.00	FALSE	401	1	2/25/2017 15:34	Don Kean	FALSE	Cultural Debris	Metal Scrap					3.00	1.50	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/13/2017 0:0		

Appendix B
Dig Sheet Data
Western Slopes Pilot Study
Former Camp Bonneville Military Reservation

Project_Site_Name	Area Of Concern Name	Search Area Type	Search Area ID	Field Team Name	Instrument/Response	SurfacePointType	SurfacePointSubType	Northing	Easting	UtmZone	Item Number	Item Count	Log Date	Logged By	Is MEC	Item Category	Item Type	MEC Category	MEC Description	MEC Part	MEC Condition	Depth	Weight	Item Current Status	Comments	Requires Further Action	Hole Cleared	UXO QC Completed	UXOQCBy	UXOQCDate	QC Final	LandUse	
Western Slopes	Western Slopes	Grid	L19-3	BON06		Analog Near Surface (0-3")		602.00	602.00	FALSE	602	38	2/13/2017 15:17	Glenn Haupt	FALSE	Cultural Debris	Metal Scrap						1.00	20.00	Stockpiled		FALSE	TRUE	FALSE		FALSE		
Western Slopes	Western Slopes	Grid	L19-3	BON06		Analog Near Surface (0-3")		603.00	603.00	FALSE	603	1	2/13/2017 15:17	Glenn Haupt	FALSE	Seed	Blind QC 1" x 4" pipe						3.00	3.00	Stockpiled	Blind QC Seed #W017	FALSE	TRUE	FALSE		FALSE		
Western Slopes	Western Slopes	Grid	L19-4	BON05		Analog Near Surface (0-3")		501.00	501.00	FALSE	501	161	2/14/2017 15:19	Glenn Haupt	FALSE	Small Arms	7.62mm						1.00	5.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/21/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	L19-4	BON05		Analog Near Surface (0-3")		502.00	502.00	FALSE	502	116	2/14/2017 15:20	Glenn Haupt	FALSE	Cultural Debris	Metal Scrap						1.00	25.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/21/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	L19-5	BON06		Analog Near Surface (0-3")		601.00	601.00	FALSE	601	1	2/15/2017 16:08	Glenn Haupt	FALSE	Seed	Blind QC 1" x 4" pipe						0.00	1.00	Stockpiled	Blind QC Seed #W016	FALSE	TRUE	TRUE	Michael Everman	2/21/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	L19-5	BON06		Analog Near Surface (0-3")		602.00	602.00	FALSE	602	1	2/15/2017 16:09	Glenn Haupt	TRUE	UXO	Projectile	Fragmentation	37mm		Projectile	Live	1.00	0.50	Detonated	M1-0337. Disposed of by detonation on 2/16/2017.	FALSE	TRUE	TRUE	Michael Everman	2/21/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	L19-5	BON06		Analog Near Surface (0-3")		603.00	603.00	FALSE	603	300	2/15/2017 16:09	Glenn Haupt	FALSE	Cultural Debris	Metal Scrap						1.00	40.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/21/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	L19-5	BON06		Analog Near Surface (0-3")		604.00	604.00	FALSE	604	110	2/15/2017 16:10	Glenn Haupt	FALSE	Small Arms	7.62mm						0.00	4.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/21/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	M20-1	BON06		Analog Near Surface (0-3")		601.00	601.00	FALSE	601	250	2/16/2017 16:09	Glenn Haupt	FALSE	Cultural Debris	Metal Scrap						1.00	20.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/21/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	M20-2	BON06		Analog Near Surface (0-3")		601.00	601.00	FALSE	601	300	2/16/2017 16:11	Glenn Haupt	FALSE	Cultural Debris	Metal Scrap						1.00	50.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/21/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	M20-3	BON05		Analog Near Surface (0-3")		501.00	501.00	FALSE	501	104	2/16/2017 15:28	Clayton Daniels	FALSE	Cultural Debris	Metal Scrap						3.00	50.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/21/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	M20-3	BON05		Analog Near Surface (0-3")		502.00	502.00	FALSE	502	1	2/16/2017 15:29	Clayton Daniels	FALSE	Munitions Debris	Grenade, Smoke	Smoke	M18		Whole Item	Inert	2.00	1.50	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/21/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	M20-3	BON05		Analog Near Surface (0-3")		503.00	503.00	FALSE	503	1	2/16/2017 15:30	Clayton Daniels	FALSE	Munitions Debris	Blasting Cap, Non-Electric						0.00	0.10	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/21/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	M20-4	BON05		Analog Near Surface (0-3")		501.00	501.00	FALSE	501	14	2/16/2017 15:28	Clayton Daniels	FALSE	Cultural Debris	Metal Scrap						2.00	5.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/21/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	M20-4	BON05		Analog Near Surface (0-3")		502.00	502.00	FALSE	502	1	2/16/2017 15:29	Clayton Daniels	FALSE	Munitions Debris	Blasting Cap, Non-Electric						1.00	0.10	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/21/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	M20-4	BON05		Analog Near Surface (0-3")		503.00	503.00	FALSE	503	1	2/16/2017 15:28	Clayton Daniels	FALSE	Seed	Blind QC 1" x 4" pipe						0.00	0.25	Stockpiled	QC W015	FALSE	TRUE	TRUE	Michael Everman	2/21/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	M20-5	BON05		Analog Near Surface (0-3")		501.00	501.00	FALSE	501	1	2/15/2017 15:56	Clayton Daniels	FALSE	Cultural Debris	Wire						1.00	3.00	Stockpiled		FALSE	TRUE	FALSE		FALSE		
Western Slopes	Western Slopes	Grid	M20-5	BON05		Analog Near Surface (0-3")		502.00	502.00	FALSE	502	39	2/15/2017 15:56	Clayton Daniels	FALSE	Cultural Debris	Metal Scrap						3.00	9.00	Stockpiled		FALSE	TRUE	FALSE		FALSE		
Western Slopes	Western Slopes	Grid	N20-1	BON05		Analog Near Surface (0-3")		501.00	501.00	FALSE	501	1	2/14/2017 15:47	Clayton Daniels	FALSE	Cultural Debris	Pipe						2.00	9.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/21/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	N20-1	BON05		Analog Near Surface (0-3")		502.00	502.00	FALSE	502	6	2/14/2017 15:48	Clayton Daniels	FALSE	Cultural Debris	Wire						1.00	1.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/21/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	N20-1	BON05		Analog Near Surface (0-3")		503.00	503.00	FALSE	503	1	2/14/2017 15:48	Clayton Daniels	FALSE	Cultural Debris	Metal Scrap						3.00	1.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/21/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	N20-1	BON05		Analog Near Surface (0-3")		504.00	504.00	FALSE	504	3	2/14/2017 15:49	Clayton Daniels	FALSE	Small Arms	5.56mm						0.00	0.20	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/21/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	N20-2	BON05		Analog Near Surface (0-3")		501.00	501.00	FALSE	501	12	2/13/2017 15:08	Clayton Daniels	FALSE	Cultural Debris	Metal Scrap						3.00	1.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/21/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	N20-3	BON05		Analog Near Surface (0-3")		501.00	501.00	FALSE	501	1	2/9/2017 15:30	Clayton Daniels	FALSE	Cultural Debris	Metal Scrap						3.00	4.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/14/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	N20-4	BON05		Analog Near Surface (0-3")		501.00	501.00	FALSE	501	1	2/9/2017 15:27	Clayton Daniels	FALSE	Seed	Blind QC 1" x 4" pipe						1.00	0.25	Stockpiled	QC W014	FALSE	TRUE	TRUE	Michael Everman	2/14/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	N20-4	BON05		Analog Near Surface (0-3")		502.00	502.00	FALSE	502	1	2/9/2017 15:28	Clayton Daniels	FALSE	Munitions Debris	Grenade, Smoke	Smoke	M18		Whole Item	Inert	2.00	0.50	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/14/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	N20-4	BON05		Analog Near Surface (0-3")		503.00	503.00	FALSE	503	910	2/9/2017 15:29	Clayton Daniels	FALSE	Cultural Debris	Metal Scrap						3.00	30.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/14/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	N20-5	BON05		Analog Near Surface (0-3")		501.00	501.00	FALSE	501	1	2/8/2017 15:54	Clayton Daniels	FALSE	Munitions Debris	Trench Mortar, HE	Anti-Personnel	3in MKI (Stokes)	Body	Inert		3.00	7.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/14/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	N20-5	BON05		Analog Near Surface (0-3")		502.00	502.00	FALSE	502	1	2/8/2017 15:56	Clayton Daniels	FALSE	Munitions Debris	Flare	Illumination	M125 series	Components			3.00	0.75	Stockpiled	shipping container	FALSE	TRUE	TRUE	Michael Everman	2/14/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	N20-5	BON05		Analog Near Surface (0-3")		503.00	503.00	FALSE	503	2	2/8/2017 15:57	Clayton Daniels	FALSE	Munitions Debris	Frag	Fragmentation	MK II	Frag	Inert	2.00	0.25	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/14/2017 0:00	FALSE		
Western Slopes	Western Slopes	Grid	N20-5	BON05		Analog Near Surface (0-3")		504.00	504.00	FALSE	504	53	2/8/2017 15:58	Clayton Daniels	FALSE	Cultural Debris	Metal Scrap						3.00	10.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/14/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	O21-1	BON05		Analog Near Surface (0-3")		501.00	501.00	FALSE	501	1	2/7/2017 16:18	Clayton Daniels	FALSE	Seed	Blind QC 1" x 4" pipe						0.00	0.25	Stockpiled	QC W013	FALSE	TRUE	TRUE	Michael Everman	2/14/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	O21-1	BON05		Analog Near Surface (0-3")		502.00	502.00	FALSE	502	1	2/7/2017 16:13	Clayton Daniels	FALSE	Munitions Debris	Grenade, Smoke	Smoke	M18		Frag	Inert	2.00	0.50	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/14/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	O21-1	BON05		Analog Near Surface (0-3")		503.00	503.00	FALSE	503	43	2/7/2017 16:12	Clayton Daniels	FALSE	Cultural Debris	Metal Scrap						3.00	15.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/14/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	O21-2	BON05		Analog Near Surface (0-3")		501.00	501.00	FALSE	501	5	2/6/2017 15:48	Clayton Daniels	FALSE	Cultural Debris	Wire						2.00	0.50	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/14/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	O21-2	BON05		Analog Near Surface (0-3")		502.00	502.00	FALSE	502	1	2/6/2017 15:48	Clayton Daniels	FALSE	Cultural Debris	Nonexplosive						3.00	1.50	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/14/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	O21-2	BON05		Analog Near Surface (0-3")		503.00	503.00	FALSE	503	1	2/6/2017 15:49	Clayton Daniels	FALSE	Cultural Debris	Iron Scrap						3.00	3.00	Stockpiled		FALSE	TRUE	TRUE	Michael Everman	2/14/2017 0:00	FALSE	
Western Slopes	Western Slopes	Grid	O21-3	BON05		Analog Near Surface (0-3")		501.00	501.00	FALSE	501	1	2/3/2017 9:14	Rex Andreosen	FALSE	Cultural Debris	Metal Scrap						3.00	3.00	Stockpiled	QA Seed #W012	FALSE	TRUE	TRUE	Michael Everman	2/14/2017 0:00	FALSE	

APPENDIX C
MEC/MPPEH DOCUMENTATION FORMS

**Form M-1****Munitions and Explosives of Concern Information Form**Date/Time: 11-29-16Tracking Number: 0315

1. Were item(s) recovered from grid: ☒ Yes ☐ No
2. Items removed by: UXOSO
3. Items moved to Magazine/CITA: ☒ Yes ☐ No
4. Were item(s) destroyed on Site? ☒ Yes ☐ No
5. If yes, who destroyed the item(s)? Seth Moberly, Rusty Tracey, Karl Christiansen

6. MEC ITEM(S) ENCOUNTERED:

MEC Nomenclature	Qty.	Location/Depth	Status	Disposition
1. Proj, 37mm, Riot	1	Grid K-15-14 at 4"	MPPEH	Disposed of by Detonation on 12/22/16
2.				
3.				

7. WESTON PERSONNEL NOTIFIED AT (TIME): 1700

8. CLARK COUNTY PERSONNEL NOTIFIED AT (TIME): 1730

Location of items found: E: 1151190 N: 136412

WESTON SUXOS:

Andrew Caldwell

Signature:

A handwritten signature in black ink, appearing to read "Andrew Caldwell".



Form M-1 **Munitions and Explosives of Concern Information Form**

Date/Time: 12-1-16

Tracking Number: 0316

1. Were item(s) recovered from grid: ☐ Yes ☒ No
2. Items removed by: N/A, Blown in Place
3. Items moved to Magazine/CITA: ☐ Yes ☒ No
4. Were item(s) destroyed on Site? ☒ Yes ☐ No
5. If yes, who destroyed the item(s)?
 Clayton Daniels, Gerald Bruno, Joshua Gipson, Tim Stimpson

6. MEC ITEM(S) ENCOUNTERED:

MEC Nomenclature	Qty.	Location/Depth	Status	Disposition
1. Rkt, 2.36", M6A3 M7, Proc	1	Grid K-15-13 at 10"	UXO MDAS	Disposed of by Detonation on 12/1/16
2. <i>Acc</i>			<i>Acc</i>	
3.				

7. WESTON PERSONNEL NOTIFIED AT (TIME): 0830

8. CLARK COUNTY PERSONNEL NOTIFIED AT (TIME): 0900

Location of items found: E: 1151165 N: 136322

WESTON SUXOS:

Andrew Caldwell

Signature:

Andrew C. Caldwell

**Form M-1****Munitions and Explosives of Concern Information Form**Date/Time: 12-5-16Tracking Number: 03171. Were item(s) recovered from grid: ☒ Yes ☐ No

2. Items removed by: UXOSO

3. Items moved to Magazine/CITA: ☒ Yes ☐ No4. Were item(s) destroyed on Site? ☒ Yes ☐ No

5. If yes, who destroyed the item(s)?

Seth Moberly, Rusty Tracey, Karl Christiansen

6. MEC ITEM(S) ENCOUNTERED:

MEC Nomenclature	Qty.	Location/Depth	Status	Disposition
1. Sig, Illum, Grnd, M49	1	Grid G-5-25 at 6", 3.5" Rkt Firing Pt	UXO	Disposed of by Detonation on 12/22/16
2.				
3.				

7. WESTON PERSONNEL NOTIFIED AT (TIME): 1600

8. CLARK COUNTY PERSONNEL NOTIFIED AT (TIME): 1630

Location of items found: E: 1149300 N: 131587

WESTON SUXOS:

Andrew Caldwell

Signature:

**Form M-1****Munitions and Explosives of Concern Information Form**Date/Time: 12-12-16Tracking Number: 0318

1. Were item(s) recovered from grid: ☒ Yes ☒ No
2. Items removed by: ~~UXOSO~~ ^{N/A} _{RC} ^{ARC}
3. Items moved to Magazine/CITA: ☒ Yes ☒ No
4. Were item(s) destroyed on Site? ☒ Yes ☐ No
5. If yes, who destroyed the item(s)?
Seth Moberly, Rusty Tracey, Karl Christiansen

6. MEC ITEM(S) ENCOUNTERED:

MEC Nomenclature	Qty.	Location/Depth	Status	Disposition
1. Submunition, M32	1	Grid M-19-2 at 6"	UXO	Disposed of by Detonation on 12/22/16 ^{12/13/16} _{RC}
2.				
3.				

7. WESTON PERSONNEL NOTIFIED AT (TIME): 1600

8. CLARK COUNTY PERSONNEL NOTIFIED AT (TIME): 1630

Location of items found: E: 1152245 N: 138592

WESTON SUXOS:

Andrew Caldwell

Signature:

**Form M-1****Munitions and Explosives of Concern Information Form**Date/Time: 12-20-16Tracking Number: 03191. Were item(s) recovered from grid: ☐ Yes ☒ No

2. Items removed by: N/A, Blown in Place

3. Items moved to Magazine/CITA: ☐ Yes ☒ No4. Were item(s) destroyed on Site? ☒ Yes ☐ No

5. If yes, who destroyed the item(s)?

Clayton Daniels, Gerald Bruno, Joshua Gipson, Tim Stimpson

6. MEC ITEM(S) ENCOUNTERED:

MEC Nomenclature	Qty.	Location/Depth	Status	Disposition
1. Rkt, 2.36", M6 M7, Prac <i>Ac</i>	1	Grid P-18-8 at 6"	UXO MDAS	Disposed of by Detonation on 12/21/16
2. Submunition, M43	1	Grid M-19-1 at 14"	UXO <i>Ac</i>	Disposed of by Detonation on 12/21/16
3.				

7. WESTON PERSONNEL NOTIFIED AT (TIME): 1600

8. CLARK COUNTY PERSONNEL NOTIFIED AT (TIME): 1630

Location of items found: E: 1153635 N: 137792

1151905 138162

WESTON SUXOS:

Andrew Caldwell

Signature:



Form M-1 **Munitions and Explosives of Concern Information Form**

Date/Time: 12-21-16

Tracking Number: 0320

1. Were item(s) recovered from grid: ☐ Yes ☒ No
2. Items removed by: N/A, Blown in Place
3. Items moved to Magazine/CITA: ☐ Yes ☒ No
4. Were item(s) destroyed on Site? ☒ Yes ☐ No
5. If yes, who destroyed the item(s)?
 Donald Kean, Wesley Bain, Chris McVay, Rusty Tracey

6. MEC ITEM(S) ENCOUNTERED:

MEC Nomenclature	Qty.	Location/Depth	Status	Disposition
1. Rkt, 3.5", M28, HEAT M29, Prac	15	Grid H-6-10 at 3"	UXO MDAS	Disposed of by Detonation on 1/6/17
2. <i>ACC</i>			<i>ACC</i>	
3.				

7. WESTON PERSONNEL NOTIFIED AT (TIME): 1600

8. CLARK COUNTY PERSONNEL NOTIFIED AT (TIME): 1630

Location of items found: E: 1149775 N: 131712

WESTON SUXOS:

Andrew Caldwell

Signature:

Andrew C. Caldwell



Form M-1 **Munitions and Explosives of Concern Information Form**

Date/Time: 12-22-16

Tracking Number: 0321

1. Were item(s) recovered from grid: ☐ Yes ☒ No
2. Items removed by: N/A, Blown in Place
3. Items moved to Magazine/CITA: ☐ Yes ☒ No
4. Were item(s) destroyed on Site? ☒ Yes ☐ No
5. If yes, who destroyed the item(s)?
 Donald Kean, Wesley Bain, Chris McVay, Rusty Tracey

6. MEC ITEM(S) ENCOUNTERED:

MEC Nomenclature	Qty.	Location/Depth	Status	Disposition
1. Rkt, 3.5", M28, HEAT M29, Prac <i>AC</i>	7	Grid I-6-6 at 3"	UXO MIDAS <i>AC</i>	Disposed of by Detonation on 1/6/17
2.				
3.				

7. WESTON PERSONNEL NOTIFIED AT (TIME): 1600

8. CLARK COUNTY PERSONNEL NOTIFIED AT (TIME): 1630

Location of items found: E: 1149875 N: 131712

WESTON SUXOS:

Andrew Caldwell

Signature:

Andrew Caldwell



Form M-1 **Munitions and Explosives of Concern Information Form**

Date/Time: 1-3-17

Tracking Number: 0322

1. Were item(s) recovered from grid: ☐ Yes ☒ No
2. Items removed by: N/A, Blown in Place
3. Items moved to Magazine/CITA: ☐ Yes ☒ No
4. Were item(s) destroyed on Site? ☒ Yes ☐ No
5. If yes, who destroyed the item(s)?
 Donald Kean, Wesley Bain, Chris McVay, Rusty Tracey

6. MEC ITEM(S) ENCOUNTERED:

MEC Nomenclature	Qty.	Location/Depth	Status	Disposition
1. Rkt, 3.5", M28, HEAT M29, Proc	11	Grid I-6-7 at 3"	UXO MDAS	Disposed of by Detonation on 1/6/17
2. <i>Proc</i>			<i>Proc</i>	
3.				

7. WESTON PERSONNEL NOTIFIED AT (TIME): 1600

8. CLARK COUNTY PERSONNEL NOTIFIED AT (TIME): 1630

Location of items found: E: 1149875 N: 131712

WESTON SUXOS:

Andrew Caldwell

Signature:

Andrew C. Caldwell



Form M-1 **Munitions and Explosives of Concern Information Form**

Date/Time: 1-4-17

Tracking Number: 0323

1. Were item(s) recovered from grid: ☐ Yes ☒ No
2. Items removed by: N/A, Blown in Place
3. Items moved to Magazine/CITA: ☐ Yes ☒ No
4. Were item(s) destroyed on Site? ☒ Yes ☐ No
5. If yes, who destroyed the item(s)?
 Donald Kean, Wesley Bain, Chris McVay, Rusty Tracey

6. MEC ITEM(S) ENCOUNTERED:

MEC Nomenclature	Qty.	Location/Depth	Status	Disposition
1. Rkt, 3.5", M28, HEAT M29, Proc AC	20	Grid I-6-2 at 3"	UXO MDAS AC	Disposed of by Detonation on 1/6/17
2.				
3.				

7. WESTON PERSONNEL NOTIFIED AT (TIME): 1600

8. CLARK COUNTY PERSONNEL NOTIFIED AT (TIME): 1630

Location of items found: E: 1149875 N: 131712

WESTON SUXOS:

Andrew Caldwell

Signature:

Andrew Caldwell



Form M-1 **Munitions and Explosives of Concern Information Form**

Date/Time: 1-5-17

Tracking Number: 0324

1. Were item(s) recovered from grid: ☒ Yes ☒ No
2. Items removed by: M28 Blown in Place, M183 removed by UXOSO
3. Items moved to Magazine/CITA: ☒ Yes ☒ No
4. Were item(s) destroyed on Site? ☒ Yes ☐ No
5. If yes, who destroyed the item(s)?
 1/6/17-Donald Kean, Wesley Bain, Chris McVay, Rusty Tracey
 2/28/17-Bill Raasch, Joshua Gipson, Tyler Szeliga
6. MEC ITEM(S) ENCOUNTERED:

MEC Nomenclature	Qty.	Location/Depth	Status	Disposition
1. Rkt, 3.5", M28, HEAT <i>M29 Prac, Acc</i>	21	Grid I-6-1 at 3"	UXO <i>MDAS</i>	Disposed of by Detonation on 1/6/17
2. Proj, Subcal, 14.5mm, M183	1	Grid I-12-23 at 8"	<i>Acc</i> UXO	Disposed of by Detonation on 2/28/17
3.				

7. WESTON PERSONNEL NOTIFIED AT (TIME): 1600

8. CLARK COUNTY PERSONNEL NOTIFIED AT (TIME): 1630

Location of items found: E: 1149875 N: 131612
 1150075 135012

WESTON SUXOS:

Andrew Caldwell

Signature:

Andrew Caldwell



Form M-1 **Munitions and Explosives of Concern Information Form**

Date/Time: 1-19-17

Tracking Number: 0325

1. Were item(s) recovered from grid: ☐ Yes ☒ No

2. Items removed by: N/A, Blown in Place

3. Items moved to Magazine/CITA: ☐ Yes ☒ No

4. Were item(s) destroyed on Site? ☒ Yes ☐ No

5. If yes, who destroyed the item(s)?

Donald Kean, Wesley Bain, Chris McVay, Tyler Szeliga, Clayton Daniels, Timothy Stimpson

6. MEC ITEM(S) ENCOUNTERED:

MEC Nomenclature	Qty.	Location/Depth	Status	Disposition
1. Rkt, 3.5", M28, HEAT <i>M29, Prac Acc</i>	4	Grid H-5-5 at 3"	UXO <i>MDAS Acc</i>	Disposed of by Detonation on 1/20/17
2. Fuze, Rocket 3.5", M404A1 <i>M405, Dummy Acc</i>	2	Grid H-5-5 at 8"	UXO <i>MDAS Acc</i>	Disposed of by Detonation on 1/20/17
3.			<i>Acc</i>	

7. WESTON PERSONNEL NOTIFIED AT (TIME): 1600

8. CLARK COUNTY PERSONNEL NOTIFIED AT (TIME): 1630

Location of items found: E: 1149775 N: 131112

WESTON SUXOS:

Andrew Caldwell

Signature:

Andrew C. Caldwell

**Form M-1****Munitions and Explosives of Concern Information Form**Date/Time: 1-23-17Tracking Number: 0326

1. Were item(s) recovered from grid: ☐ Yes ☒ No
2. Items removed by: N/A, Blown in Place
3. Items moved to Magazine/CITA: ☐ Yes ☒ No
4. Were item(s) destroyed on Site? ☒ Yes ☐ No
5. If yes, who destroyed the item(s)?
Clayton Daniels, Chris McVay, Pedro Vallejo, Timothy Stimpson
6. MEC ITEM(S) ENCOUNTERED:

MEC Nomenclature	Qty.	Location/Depth	Status	Disposition
1. Fuze, Rocket 3.5", M404A1 <i>M405, Dummy</i>	8	Grid H-5-3 at 3"	UXO <i>MDAS</i>	Disposed of by Detonation on 1/27/17
2. Rkt, 3.5", M28, HEAT <i>M29, Prac</i>	45	Grid H-6-5 at 3"	UXO <i>MDAS</i>	Disposed of by Detonation on 1/27/17
3. Rkt, 3.5", M28, HEAT <i>M29, Prac</i>	15	Grid I-5-21 at 3"	UXO <i>MDAS</i>	Disposed of by Detonation 1/27/17
4. Rkt, 3.5", M28 HEAT <i>M29, Prac</i>	25	Grid H-5-25 at 3"	UXO <i>MDAS</i>	Disposed of by Detonation 1/27/17

7. WESTON PERSONNEL NOTIFIED AT (TIME): 1600

8. CLARK COUNTY PERSONNEL NOTIFIED AT (TIME): 1630

Location of items found: E: 1149575 N: 131112 E: 1149875 N: 131512
1149775 131612 1149775 131512

WESTON SUXOS:

Andrew Caldwell

Signature:

**Form M-1****Munitions and Explosives of Concern Information Form**Date/Time: 1-24-17Tracking Number: 03271. Were item(s) recovered from grid: ☐ Yes ☒ No

2. Items removed by: N/A, Blown in Place

3. Items moved to Magazine/CITA: ☐ Yes ☒ No4. Were item(s) destroyed on Site? ☒ Yes ☐ No

5. If yes, who destroyed the item(s)?

Clayton Daniels, Chris McVay, Pedro Vallejo, Timothy Stimpson

6. MEC ITEM(S) ENCOUNTERED:

MEC Nomenclature	Qty.	Location/Depth	Status	Disposition
1. Fuze, Rocket 3.5", M404A1 <i>M405, Dummy</i> <i>Acc</i>	8	Grid I-5-22 at 3"	UXO <i>MDAS</i> <i>Acc</i>	Disposed of by Detonation on 1/27/17
2. Rkt, 3.5", M28, HEAT <i>M29, Prac</i> <i>Acc</i>	13	Grid I-5-22 at 3"	UXO <i>MDAS</i> <i>Acc</i>	Disposed of by Detonation on 1/27/17
3.				

7. WESTON PERSONNEL NOTIFIED AT (TIME): 1600

8. CLARK COUNTY PERSONNEL NOTIFIED AT (TIME): 1630

Location of items found: E: 1149775 N: 131112

WESTON SUXOS:

Andrew Caldwell

Signature:



Form M-1 **Munitions and Explosives of Concern Information Form**

Date/Time: 1-25-17

Tracking Number: 0328

1. Were item(s) recovered from grid: ☐ Yes ☒ No
2. Items removed by: N/A, Blown in Place
3. Items moved to Magazine/CITA: ☐ Yes ☒ No
4. Were item(s) destroyed on Site? ☒ Yes ☐ No
5. If yes, who destroyed the item(s)?
 1/26/17-Bill Raasch, Karl Christiansen, Erik Peters, Joseph Donilon
 1/27/17- Clayton Daniels, Chris McVay, Pedro Vallejo, Timothy Stimpson
6. MEC ITEM(S) ENCOUNTERED:

MEC Nomenclature	Qty.	Location/Depth	Status	Disposition
1. Rkt, 2.36", M6 M7, Prac Arc	1	Grid Q-17-25 at 3"	UXO MDAS Arc	Disposed of by Detonation on 1/26/17
2. Rkt, 2.36", M6 M7, Prac Arc	1	Grid R-17-7 at 3"	UXO MDAS Arc	Disposed of by Detonation on 1/26/17
3. Proj, 37mm, MK 1	1	Grid H-5-7 at 3"	UXO	Disposed of by Detonation 1/27/17
4. Rkt, 3.5", M28, HEAT M29, Prac Arc	1	Grid H-5-7 at 3"	UXO MDAS Arc	Disposed of by Detonation 1/27/17
5. Fuze, Rkt, M404 series M405, Dummy Arc	2	Grid H-5-7 at 3"	UXO MDAS Arc	Disposed of by Detonation 1/27/17

7. WESTON PERSONNEL NOTIFIED AT (TIME): 1600

8. CLARK COUNTY PERSONNEL NOTIFIED AT (TIME): 1630

Location of items found: E: 1154275 N: 137512
 1154475 137212
 1149475 131212

WESTON SUXOS:

Andrew Caldwell

Signature:

Andrew Caldwell

**Form M-1****Munitions and Explosives of Concern Information Form**Date/Time: 1-26-17Tracking Number: 0329

1. Were item(s) recovered from grid: ☐ Yes ☒ No
2. Items removed by: N/A, Blown in Place
3. Items moved to Magazine/CITA: ☐ Yes ☒ No
4. Were item(s) destroyed on Site? ☒ Yes ☐ No
5. If yes, who destroyed the item(s)?
Clayton Daniels, Chris McVay, Pedro Vallejo, Timothy Stimpson

6. MEC ITEM(S) ENCOUNTERED:

MEC Nomenclature	Qty.	Location/Depth	Status	Disposition
1. Fuze, Rocket 3.5", M404AT <i>M405, Dummy AC</i>	20	Grid H-5-8 at 3"	UXO <i>MDAS AC</i>	Disposed of by Detonation on 1/27/17
2. Rkt, 3.5", M28, HEAT <i>M29, Prac AC</i>	35	Grid H-5-12 at 3"	UXO <i>MDAS AC</i>	Disposed of by Detonation on 1/27/17
3. Rkt, 3.5", M28, HEAT <i>M29, Prac AC</i>	9	Grid H-5-13 at 3"	UXO <i>MDAS AC</i>	Disposed of by Detonation on 1/27/17

7. WESTON PERSONNEL NOTIFIED AT (TIME): 1600

8. CLARK COUNTY PERSONNEL NOTIFIED AT (TIME): 1630

Location of items found: E: 1149575 N: 131212
 1149475 131312
 1149575 131312

WESTON SUXOS:

Andrew Caldwell

Signature:



Form M-1

Munitions and Explosives of Concern Information Form

Date/Time: 1-30-17Tracking Number: 0330

1. Were item(s) recovered from grid: ☐ Yes ☒ No
2. Items removed by: N/A, Blown in Place
3. Items moved to Magazine/CITA: ☐ Yes ☒ No
4. Were item(s) destroyed on Site? ☒ Yes ☐ No
5. If yes, who destroyed the item(s)?
Clark Sorensen, Shawn Lundgren, Rusty Tracey, Pedro Vallejo

6. MEC ITEM(S) ENCOUNTERED:

MEC Nomenclature	Qty.	Location/Depth	Status	Disposition
1. 3" Trench Mortar, MK I , Unfuzed <i>MK II, Proc AC</i>	1	Grid E-11-4 at 2" <i>F11-4 RCL</i>	MPPEH <i>MDAS</i>	Disposed of by Detonation on 2/7/17
2. Fuze, Rkt, 3.5", M404 <i>M405, Dummy AC</i>	8	Grid H-5-9 at 3"	UXO <i>MDAS</i>	Disposed of by Detonation on 2/7/17
3.				

7. WESTON PERSONNEL NOTIFIED AT (TIME): 1600

8. CLARK COUNTY PERSONNEL NOTIFIED AT (TIME): 1630

Location of items found: E: 1148675 N: 134112
1149675 131212

WESTON SUXOS:

Andrew Caldwell

Signature:

**Form M-1****Munitions and Explosives of Concern Information Form**Date/Time: 1-31-17Tracking Number: 0331

1. Were item(s) recovered from grid: ☐ Yes ☒ No
2. Items removed by: N/A, Blown in Place
3. Items moved to Magazine/CITA: ☐ Yes ☒ No
4. Were item(s) destroyed on Site? ☒ Yes ☐ No
5. If yes, who destroyed the item(s)?
Clark Sorensen, Shawn Lundgren, Rusty Tracey, Pedro Vallejo

6. MEC ITEM(S) ENCOUNTERED:

MEC Nomenclature	Qty.	Location/Depth	Status	Disposition
1. Rkt, 3.5", M28, HEAT <i>M29, Prac</i>	1	Grid H-5-10 at 3"	UXO <i>MDAS</i>	Disposed of by Detonation on 2/7/17
2. Fuze, Rkt, 3.5", M404 <i>M405, Dummy</i>	4	Grid H-5-10 at 3"	UXO <i>MDAS</i>	Disposed of by Detonation on 2/7/17
3.				

7. WESTON PERSONNEL NOTIFIED AT (TIME): 1600

8. CLARK COUNTY PERSONNEL NOTIFIED AT (TIME): 1630

Location of items found: E: 1149775 N: 131212

WESTON SUXOS:

Andrew Caldwell

Signature:



Form M-1 **Munitions and Explosives of Concern Information Form**

Date/Time: 2-3-17

Tracking Number: 0332

1. Were item(s) recovered from grid: ☐ Yes ☒ No
2. Items removed by: N/A, Blown in Place
3. Items moved to Magazine/CITA: ☐ Yes ☒ No
4. Were item(s) destroyed on Site? ☒ Yes ☐ No
5. If yes, who destroyed the item(s)?
 Clark Sorensen, Shawn Lundgren, Rusty Tracey, Pedro Vallejo

6. MEC ITEM(S) ENCOUNTERED:

MEC Nomenclature	Qty.	Location/Depth	Status	Disposition
1. Fuze, Rkt, 3.5", M404 <i>M405, Dummy Acc</i>	2	Grid H-5-15 at 3"	UXO <i>MDAS</i>	Disposed of by Detonation on 2/7/17
2.			<i>Acc</i>	
3.				

7. WESTON PERSONNEL NOTIFIED AT (TIME): 1700

8. CLARK COUNTY PERSONNEL NOTIFIED AT (TIME): 1730

Location of items found: E: 1149775 N: 131312

WESTON SUXOS:

Andrew Caldwell

Signature:

Andrew C. Caldwell

**Form M-1****Munitions and Explosives of Concern Information Form**Date/Time: 2-6-17Tracking Number: 03331. Were item(s) recovered from grid: ☐ Yes ☒ No

2. Items removed by: N/A, Blown in Place

3. Items moved to Magazine/CITA: ☐ Yes ☒ No4. Were item(s) destroyed on Site? ☒ Yes ☐ No

5. If yes, who destroyed the item(s)?

Bill Raasch, Gerald Bruno, Joseph Donilon, Karl Christiansen, Erik Peters

6. MEC ITEM(S) ENCOUNTERED:

MEC Nomenclature	Qty.	Location/Depth	Status	Disposition
1. Rkt, 2.36", M6 HEAT M7D HAC ACC	1	Grid H-5-15 at 3"	UXO MDAS ACC	Disposed of by Detonation on 2/7/17
2.				
3.				

7. WESTON PERSONNEL NOTIFIED AT (TIME): 1700

8. CLARK COUNTY PERSONNEL NOTIFIED AT (TIME): 1730

Location of items found: E: 1154575 N: 137212

WESTON SUXOS:

Andrew Caldwell

Signature:



Form M-1 **Munitions and Explosives of Concern Information Form**

Date/Time: 2-8-17

Tracking Number: 0334

1. Were item(s) recovered from grid: ☒ Yes ☐ No
2. Items removed by: UXOSO
3. Items moved to Magazine/CITA: ☒ Yes ☐ No
4. Were item(s) destroyed on Site? ☒ Yes ☐ No
5. If yes, who destroyed the item(s)?
 Bill Raasch, Joshua Gipson, Tyler Szeliga

6. MEC ITEM(S) ENCOUNTERED:

MEC Nomenclature	Qty.	Location/Depth	Status	Disposition
1. 3" Trench Mortar, MK I , Unfuzed <i>MK II, Prac AC</i>	1	Grid K-19-5 at 2" <i>K19-5 AC</i>	MPPEH <i>MDAS AC</i>	Disposed of by Detonation on 2/28/17
2. 3" Trench Mortar, MK I , Unfuzed <i>MK II, Prac AC</i>	1	Grid N-20-5 at 3" <i>N 20-5 AC</i>	MPPEH <i>MDAS AC</i>	Disposed of by Detonation on 2/28/17
3.			<i>AC</i>	

7. WESTON PERSONNEL NOTIFIED AT (TIME): 1700

8. CLARK COUNTY PERSONNEL NOTIFIED AT (TIME): 1730

Location of items found: E: 1151275 N: 138112
 1152775 138612

WESTON SUXOS:

Andrew Caldwell

Signature:

Andrew Caldwell

**Form M-1****Munitions and Explosives of Concern Information Form**Date/Time: 2-13-17Tracking Number: 03351. Were item(s) recovered from grid: ☒ Yes ☐ No

2. Items removed by: UXOSO

3. Items moved to Magazine/CITA: ☒ Yes ☐ No4. Were item(s) destroyed on Site? ☒ Yes ☐ No

5. If yes, who destroyed the item(s)?

Bill Raasch, Joshua Gipson, Tyler Szeliga

6. MEC ITEM(S) ENCOUNTERED:

MEC Nomenclature	Qty.	Location/Depth	Status	Disposition
1. 3" Trench Mortar, MK-1 , Unfuzed <i>MK II, Prac</i>	1	Grid R-17-13 at 3"	MPPEH <i>MDAS</i>	Disposed of by Detonation on 2/28/17
2. <i>Ac</i>			<i>Ac</i>	
3.				

7. WESTON PERSONNEL NOTIFIED AT (TIME): 1700

8. CLARK COUNTY PERSONNEL NOTIFIED AT (TIME): 1730

Location of items found: E: 1154575 N: 137312

WESTON SUXOS:

Andrew Caldwell

Signature:

**Form M-1****Munitions and Explosives of Concern Information Form**Date/Time: 2-14-17Tracking Number: 0336

1. Were item(s) recovered from grid: ☐ Yes ☒ No
2. Items removed by: N/A, Blown in Place
3. Items moved to Magazine/CITA: ☐ Yes ☒ No
4. Were item(s) destroyed on Site? ☒ Yes ☐ No
5. If yes, who destroyed the item(s)?
Bill Raasch, Erik Peters, Joseph Donilon

6. MEC ITEM(S) ENCOUNTERED:

MEC Nomenclature	Qty.	Location/Depth	Status	Disposition
1. Gren, Rifle, M9 <i>mil, Prac</i>	1	Grid R-17-18 at 2"	UXO <i>MDAS</i>	Disposed of by Detonation on 2/16/17
2. <i>Acc</i>			<i>Acc</i>	
3.				

7. WESTON PERSONNEL NOTIFIED AT (TIME): 1700

8. CLARK COUNTY PERSONNEL NOTIFIED AT (TIME): 1730

Location of items found: E: 1154625 N: 137442

WESTON SUXOS:

Andrew Caldwell

Signature:

**Form M-1****Munitions and Explosives of Concern Information Form**Date/Time: 2-15-17Tracking Number: 03371. Were item(s) recovered from grid: ☐ Yes ☒ No

2. Items removed by: N/A, Blown in Place

3. Items moved to Magazine/CITA: ☐ Yes ☒ No4. Were item(s) destroyed on Site? ☒ Yes ☐ No

5. If yes, who destroyed the item(s)?

Glenn Haupt, Joshua Gipson, Matthew Harrison, Dawn Baumgarten

6. MEC ITEM(S) ENCOUNTERED:

MEC Nomenclature	Qty.	Location/Depth	Status	Disposition
1. Proj, 37mm, MK 1	1	Grid L-19-5 at 1" L19-5 Acc	UXO	Disposed of by Detonation on 2/16/17
2.				
3.				

7. WESTON PERSONNEL NOTIFIED AT (TIME): 1700

8. CLARK COUNTY PERSONNEL NOTIFIED AT (TIME): 1730

Location of items found: E: 1151775 N: 138112

WESTON SUXOS:

Andrew Caldwell

Signature:

A handwritten signature in cursive script, appearing to read "Andrew Caldwell".

APPENDIX D
MATERIALS DOCUMENTED AS
SAFE DISPOSITION RECORDS

APPENDIX E
SCRAP METALS DISPOSITION RECORDS

Pacific Coast Shredding
Vancouver, WA
(360) 737-8335

T# 680157
ELECTRONIC SCALE TICKET
C# 4359290

01810

Inbound
10:48 am 02/14/17 40680 lb

SELLER BUYER Weston Solutions

ADDRESS Waste Conn

CITY _____ STATE _____ ZIP _____

COMMODITY Tin

PRICE Andrew Caldwell DATE 2/14/17

REMARKS _____ NO. _____

Outbound
10:56 am 02/14/17 32300 lb

DRIVER _____ SHIPPER _____

ON ☒ OFF ☐ WEIGHER BJ

427

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																																																		
D I C O M F R I M U N S I T										QUANTITY										SUPPLEMENTARY ADDRESS										S I F D I S T R I B U T I O N										P R O J E C T										P R I										R D I O T E L E A D V										R I										O P										C O G D										1. TOTAL PRICE										2. SHIP FROM										3. SHIP TO									
UNIT PRICE										DOLLARS										CTS										DOLLARS										CTS										Camp										Bonneville										4. MARK FOR																																																											
5. DOC DATE										6. NMFC										7. FRT RATE										8. TYPE CARGO										9. PS																																																																																									
10. QTY. REC'D										11. UP										12. UNIT WEIGHT										13. UNIT CUBE										14. UFC										15. SL																																																																															
16. FREIGHT CLASSIFICATION NOMENCLATURE																																																																																																																																	
17. ITEM NOMENCLATURE																																																																																																																																	
18. TY CONT										19. NO CONT										20. TOTAL WEIGHT										21. TOTAL CUBE																																																																																																			
22. RECEIVED BY																																								23. DATE RECEIVED																																																																																									

Basic Material Content: Scrap Metal

Estimate Weight (lbs): _____

Container ID No.: _____ Seal ID No.: _____

Site Address: 23201 NE Pluss Rd
Vancouver WA 98682

Site Telephone No.: 360-787-4603

This certifies and verifies that the material listed has been 100 percent inspected and to the best of our knowledge and belief, are inert and/or free of explosives or related materials.

Certify By: [Signature] Date: 2/14/17
Senior UXO Supervisor

Verify By: [Signature] Date: 2-14-17
Quality Control Specialist

PREVIOUS EDITION MAY BE USED

PerFORM (DLA)

Pacific Coast Shredding
Vancouver, WA
(360) 737-8335

T# 684113
ELECTRONIC SCALE TICKET
C# 4360004

03057

Inbound
09:03 am 03/09/17 42980 lb

SELLER BUYER Weston Solutions

ADDRESS Waste Conn

CITY _____ STATE _____ ZIP _____

COMMODITY lin

PRICE _____ DATE 3/9/17

REMARKS _____ NO. _____

Outbound
09:09 am 03/09/17 32560 lb

DRIVER _____ SHIPPER _____

ON ☒ OFF ☐

WEIGHER BJ

4127

- 400lbs Dirt

PerFORM (DLA)

APPENDIX F
SENIOR UNEXPLODED ORDNANCE
SUPERVISOR DAILY REPORTS (CD Only)

29 November 2016

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	K-15, P-18, Q-18, P-25
Grids Completed	K-15-14, Q-18-14
Mec Encountered (yes or no)	YES
Location	K-15-14
Type	1ea Proj, 37mm Riot
M1 Report Number	0315

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	YES
Areas Worked	F-11

Quality Control	
Grids QC'd	H-10-2, P-18-17, Q-17-21.22, Q-18-1.2.6.7.13
Pass:Fail	PASS

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

29 November 2016

Additional Comments

Photos

Team 3 performing UXO clearance operations in H-10.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

30 November 2016

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	K-15, P-18, Q-18, P-25
Grids Completed	NO
Mec Encountered (yes or no)	NO
Location	N/A
Type	N/A
M1 Report Number	N/A

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	YES
Areas Worked	F-11

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	YES
Grids QA'd	L-18-13.18.19.20, M-18-12, N-18-11, O-18-16.21, 18-17, Q-17-21.22, Q-18-1.2.6, Q-26-2.3.7.8.12.13.17.18.22

30 November 2016

Additional Comments

Photos



Team 6 performing UXO avoidance operations ahead of brush cutting.

Signature	
Andrew Caldwell, Senior UXO Supervisor 	Jeremy Haney, Task Manager 

1 December 2016

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	K-15, P-18, Q-18, P-25
Grids Completed	NO
Mec Encountered (yes or no)	YES
Location	K-15-13
Type	1ea Rkt, 2.36", M6A3
M1 Report Number	0316

Demolition	
Demo (yes or no)	YES
See Demo Shot Record	0096

Vegetation Removal	
Veg Removal (yes or no)	YES
Areas Worked	F-10

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

1 December 2016

Additional Comments

Photos

2.36" rocket verified inert by demolition in K-15.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

2 December 2016

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	K-15, P-18, Q-18, P-25
Grids Completed	P-18-12, Q-18-12
Mec Encountered (yes or no)	NO
Location	N/A
Type	N/A
M1 Report Number	N/A

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	YES
Areas Worked	F-9, F-10

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

2 December 2016

Additional Comments

Photos

Team 3 performing UXO clearance operations in H-10.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

5 December 2016

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	K-15, P-18, Q-18, P-25, 3.5" Rocket Firing Point
Grids Completed	H-10-3, 3.5" Rocket Firing Point
Mec Encountered (yes or no)	YES
Location	G-5-25 (3.5" Rkt Firing Pt)
Type	1ea Sig, Illum, Grnd, M49
M1 Report Number	0317

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	YES
Areas Worked	F-9

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

5 December 2016

Additional Comments

Photos



Team 7 performing UXO clearance operations in Q-18.

Signature	
Andrew Caldwell, Senior UXO Supervisor 	Jeremy Haney, Task Manager 

6 December 2016

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	K-15, Q-18, P-25, 3.5" Rocket Firing Point
Grids Completed	P-25-3.8.13, Q-18-11
Mec Encountered (yes or no)	NO
Location	N/A
Type	N/A
M1 Report Number	N/A

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	YES
Areas Worked	E-8, F-9

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

6 December 2016

Additional Comments

Photos



Materials recovered from Q-18 by Team 1.

Signature

Andrew Caldwell, Senior UXO Supervisor



Jeremy Haney, Task Manager



7 December 2016

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	K-15, Q-18, P-25, 3.5" Rocket Firing Point
Grids Completed	K-15-13, P-25-18.23.24, Q-18-15
Mec Encountered (yes or no)	NO
Location	N/A
Type	N/A
M1 Report Number	N/A

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	YES
Areas Worked	E-7, E-8

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

7 December 2016

Additional Comments

Photos



Team 5 performing UXO clearance operations in K-15.

Signature	
Andrew Caldwell, Senior UXO Supervisor 	Jeremy Haney, Task Manager 

12 December 2016

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	K-15, Q-18, P-25
Grids Completed	P-25-9,14.19
Mec Encountered (yes or no)	YES
Location	M-19-2
Type	1ea Submunition, M32
M1 Report Number	0318

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	YES
Areas Worked	D-6, E_7

Quality Control	
Grids QC'd	H-10-3, K-15-13.14.15
Pass:Fail	PASS

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

12 December 2016

Additional Comments
Work cancelled on 12/9 due to icestorm-unsafe conditions.

Photos

Site conditions.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

13 December 2016

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	K-15, Q-18, P-25
Grids Completed	P-18-9, P-25-4.5.15, Q-18-9
Mec Encountered (yes or no)	NO
Location	N/A
Type	N/A
M1 Report Number	N/A

Demolition	
Demo (yes or no)	YES
See Demo Shot Record	0097

Vegetation Removal	
Veg Removal (yes or no)	YES
Areas Worked	D-6, E_7

Quality Control	
Grids QC'd	P-18-12, P-25-3.8.13.18.23.24, Q-18-11.12.14.15, 3.5" Rkt Range Firing Point
Pass:Fail	PASS

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

13 December 2016

Additional Comments

Photos

Materials recovered from P-18 by Team 1.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

14 December 2016

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	K-15, Q-18, P-25
Grids Completed	M-19-2, P-25-20.25, P-26-4
Mec Encountered (yes or no)	NO
Location	N/A
Type	N/A
M1 Report Number	N/A

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	YES
Areas Worked	D-5, D-6

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	K-15-14, P-25-13, Q-18-14, 3.5" Rkt Range Firing Pt

14 December 2016

Additional Comments

Photos

Materials recovered in M-19 by Team 5.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

16 December 2016

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	K-15, Q-18, P-25
Grids Completed	M-19-6.7, P-18-7, P-26-9.14
Mec Encountered (yes or no)	NO
Location	N/A
Type	N/A
M1 Report Number	N/A

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	YES
Grids QA'd	H-10-2.3, K-15-13.14.15, P-25-3.8.13.18.23, Q-18-7.11.12.13.14.15, 3.5" Rkt Firing Pt

16 December 2016

Additional Comments
Work cancelled 12/15 due to inclement weather.

Photos

Materials recovered by Team from P-18.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

19 December 2016

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	K-15, Q-18, P-25
Grids Completed	NO
Mec Encountered (yes or no)	NO
Location	N/A
Type	N/A
M1 Report Number	N/A

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	YES
Areas Worked	B-4, C-5

Quality Control	
Grids QC'd	P-25-4.5.9.14.15.19.20.25, P-26-4.9.14
Pass:Fail	PASS

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

19 December 2016

Additional Comments

Photos
 Team 3 performing clearance operations in H-10.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

20 December 2016

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	K-15, Q-18, P-25
Grids Completed	P-18-8, P-26-19.24.25, P-28-10, Q-18-3.8.10
Mec Encountered (yes or no)	YES
Location	M-19-1, P-18-8
Type	1ea Rkt, 2.36", M6, 1ea Submunition, M43
M1 Report Number	0319

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	YES
Areas Worked	A-4, B-4

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

20 December 2016

Additional Comments

Photos

2.36" Rocket found in P-18 by Team 2.

Signature	
Andrew Caldwell, Senior UXO Supervisor 	Jeremy Haney, Task Manager 

21 December 2016

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	H-10, P-18, P-26, P-28, Q-18, Rifle Gren Firing Pt
Grids Completed	H-10-8, M-19-1, P-26-10.15.20
Mec Encountered (yes or no)	YES
Location	H-6-10
Type	15ea Rkt, 3.5", M28 HEAT
M1 Report Number	0320

Demolition	
Demo (yes or no)	YES
See Demo Shot Record	0098, 0099

Vegetation Removal	
Veg Removal (yes or no)	YES
Areas Worked	A-4

Quality Control	
Grids QC'd	H-10-8
Pass:Fail	PASS

Quality Assurance	
Pay Units completed (yes or no)	YES
Grids QA'd	P-25-4.5.9.10.14.15.19.20.24.25

21 December 2016

Additional Comments

Photos

Cultural debris recovered from H-10 by Team 3.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

22 December 2016

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	I-12, P-18, Q-18,Q-25, Q-26, Rifle Gren Firing Pt
Grids Completed	I-12-14.21, P-26-5, Q-25-12, Q-26-1, Rifle Gren Firing Pt
Mec Encountered (yes or no)	YES
Location	I-6-6
Type	1ea Rkt, 3.5" M28 HEAT
M1 Report Number	0321

Demolition	
Demo (yes or no)	YES
See Demo Shot Record	0100

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

22 December 2016

Additional Comments
Last day before Christmas break.

Photos

Materials recovered from I-12 by Team 2.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

3 January 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	I-12, P-18, Q-18, Q-25, Q-26
Grids Completed	I-12-25, Q-25-21, Q-26-16.21
Mec Encountered (yes or no)	YES
Location	I-6-7
Type	11ea Rkt, 3.5" M28 HEAT
M1 Report Number	0322

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	-12-14.21, M-19-2, P-18-7.8.9.10, P-26-5.10.15.19.20.24.25 P-26-5.10.15.19.20.24.25, Q-18-3.8.9.10, Q-26-1
Pass:Fail	PASS

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

3 January 2017

Additional Comments

Photos

Team 1 performing UXO clearance operations in I-12.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

4 January 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	I-12, P-18, Q-18,Q-25, Q-26
Grids Completed	I-12-13.22.24
Mec Encountered (yes or no)	YES
Location	I-6-2
Type	20ea Rkt, 3.5" M28 HEAT
M1 Report Number	0323

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	Rifle Grenade Firing Pt
Pass:Fail	PASS

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	H-10-8, P-18-10, P-26-9.20, Rifle Grenade Firing Pt (DoE)

4 January 2017

Additional Comments

Photos



Team 5 performing UXO clearance operations in I-12.

Signature	
Andrew Caldwell, Senior UXO Supervisor 	Jeremy Haney, Task Manager 

5 January 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	I-12, P-18, Q-18, Q-25, Q-26
Grids Completed	I-12-16.23, Q-25-7.11.16
Mec Encountered (yes or no)	YES
Location	I-6-1, I-12-23
Type	21ea Rkt, 3.5" M28 HEAT, 1ea Subcal, 14.5mm, M183
M1 Report Number	0324

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	YES
Grids QA'd	H-10-8, I-12-14.21, M-19-2, P-18-7.8.9.10.12, P-26-4.5.9.20.14.15.19.20.24.25, Q-18-3.8.9.10, Rifle Grenade Firing Pt

5 January 2017

Additional Comments

Photos



Materials recovered from grid I-12 by Team 3.

Signature	
Andrew Caldwell, Senior UXO Supervisor 	Jeremy Haney, Task Manager 

6 January 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	I-12, P-18, Q-18, Q-25, Q-26
Grids Completed	Q-24-17.22, Q-25-2
Mec Encountered (yes or no)	NO
Location	N/A
Type	N/A
M1 Report Number	N/A

Demolition	
Demo (yes or no)	YES
See Demo Shot Record	0101

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

6 January 2017

Additional Comments

Photos
 Freezing conditions on site.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

9 January 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	I-12, P-18, Q-18,Q-25, Q-26
Grids Completed	I-6-1.2.7, I-12-11.12.18, Q-25-21
Mec Encountered (yes or no)	NO
Location	N/A
Type	N/A
M1 Report Number	N/A

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	Q-24-17.22, Q-25-2.7.11.12.16.17.21, Q-26-16.21
Pass:Fail	PASS

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

9 January 2017

Additional Comments

Photos



Items recovered from I-12 by Team 7.

Signature	
Andrew Caldwell, Senior UXO Supervisor 	Jeremy Haney, Task Manager 

10 January 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	I-12, P-18, Q-18,Q-25, Q-26
Grids Completed	H-5-1, I-12-19
Mec Encountered (yes or no)	NO
Location	N/A
Type	N/A
M1 Report Number	N/A

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

10 January 2017

Additional Comments

Photos

Small Arms and cultural debris recovered from I-12 by Team 7.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

18 January 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	H-5, I-12, Q-24
Grids Completed	H-5-6, I-12-17, Q-24-11.12
Mec Encountered (yes or no)	NO
Location	N/A
Type	N/A
M1 Report Number	N/A

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	Q-25-15.16

18 January 2017

Additional Comments
No work 1/11/17-1/17/17 due to ice and snow. Central Valley Floor and Associated Wetlands clearance complete.

Photos



Team 1 heading to work in I-12 after tailgate safety brief.

Signature	
Andrew Caldwell, Senior UXO Supervisor 	Jeremy Haney, Task Manager 

19 January 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	H-5, H-7, H-8, I-12, Q-17, Q-24, R-17
Grids Completed	H-5-5.11, H-7-20.25, H-8-5, Q-17-5, Q-24-16.21, R-17-22
Mec Encountered (yes or no)	YES
Location	H-5-5
Type	4ea Rkt, 3.5", M28 HEAT, 2ea Fuze, Rkt, M404A1
M1 Report Number	0325

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	I-12-11.12.13.16.17.18.19.22.23.24.25
Pass:Fail	PASS

Quality Assurance	
Pay Units completed (yes or no)	YES
Grids QA'd	Q-25-1.2.6.7.11.12.16.21, Q-26-1.6.11.16.21

19 January 2017

Additional Comments

Photos

Team 2 performing UXO clearance operations in R-17.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

20 January 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	H-5, H-7, H-8, I-12, Q-17, Q-24, R-17
Grids Completed	H-5-4, I-7-21.22, I-8-1.2, Q-16-25, Q-17-9.10.14.15.25, R-17-12.17
Mec Encountered (yes or no)	NO
Location	N/A
Type	N/A
M1 Report Number	N/A

Demolition	
Demo (yes or no)	YES
See Demo Shot Record	0102

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

20 January 2017

Additional Comments

Photos



Practice 3.5" rockets recovered from H-5 by team 5.

Signature	
Andrew Caldwell, Senior UXO Supervisor 	Jeremy Haney, Task Manager 

23 January 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	H-5, H-6, I-5, I-7, I-12, Q-17, Q-24, R-17
Grids Completed	H-5-3.25, H-6-5, I-5-21, I-7-16.17, Q-17-19.20.24
Mec Encountered (yes or no)	YES
Location	H-5-3.25, H-6-5, I-5-21
Type	8ea Fuze, Rkt, M404, 85ea Rkt, 3.5", M28 HEAT
M1 Report Number	0326

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	Q-24-11.12.16.21
Pass:Fail	PASS

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

23 January 2017

Additional Comments

Photos

Team 1 performing UXO clearance operations in Q-17.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

24 January 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	H-5, H-6, I-5, I-7, I-12, Q-17, Q-24, R-17
Grids Completed	H-5-2, I-1-18.19, Q-18-5, R-17-2.3.21, R-18-1
Mec Encountered (yes or no)	YES
Location	I-5-22
Type	8ea Fuze, Rkt, M404, 13ea Rkt, 3.5", M28 HEAT
M1 Report Number	0327

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

24 January 2017

Additional Comments

Photos



Team 1 surveys oversized cultral debris left to be removed from R-17.

Signature	
Andrew Caldwell, Senior UXO Supervisor 	Jeremy Haney, Task Manager 

25 January 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	H-5, H-6, I-5, I-7, I-12, Q-17, Q-24, R-17
Grids Completed	E-11-1, H-5-7, I-7-20.24.25, J-17-16.21, Q-17-25, R-17-7
Mec Encountered (yes or no)	YES
Location	Q-17-25, R-17-7, H-5-7
Type	2ea Rkt, 2.36", M6, 1ea Proj, 37mm, MK 1, 1ea Rkt, 3.5", M28, 2ea Fuze, Rkt, M404
M1 Report Number	0328

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	I-12-16.23, Q-24-21 (DoE)

25 January 2017

Additional Comments

Photos



2.36" Rocket found in Q-17 by Team 2.

Signature	
Andrew Caldwell, Senior UXO Supervisor 	Jeremy Haney, Task Manager 

26 January 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	F-11, H-5, I-7, J-7, R-17
Grids Completed	F-11-5, H-5-8.12.13, I-7-10.15, J-7-11, R-17-6.11.16
Mec Encountered (yes or no)	YES
Location	H-5-8.12.13
Type	44ea Rkt, 3.5", M28, 20ea Fuze, Rkt, M404
M1 Report Number	0329

Demolition	
Demo (yes or no)	YES
See Demo Shot Record	0103

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	YES
Grids QA'd	I-12-11.12.13.16.17.18.19.22.23.24.25, Q-24-11.12.16.17.21.22

26 January 2017

Additional Comments
Begin work in Western Slopes Area.

Photos

Target vehicle debris removed from R-17 by Team 1.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

27 January 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	I-7, R-16, R-17
Grids Completed	I-7-8.9.13.14, R-16-21, R-17-1.4.9
Mec Encountered (yes or no)	NO
Location	N/A
Type	N/A
M1 Report Number	N/A

Demolition	
Demo (yes or no)	YES
See Demo Shot Record	0104

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

27 January 2017

Additional Comments

Photos

Cultural debris removed from R-17 by Team 1.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

30 January 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	F-11, H-5, R-18
Grids Completed	F-11-3, H-5-9.10, R-18-3
Mec Encountered (yes or no)	YES
Location	F-11-4, H-5-9
Type	1ea 3" Trench Mortar (Unfuzed), 8ea Fuze, Rkt, M404
M1 Report Number	0330

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

30 January 2017

Additional Comments

Photos
 Practice 3.5" rockets recovered from H-5 by Team 5.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

31 January 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	F-11, H-5, K-19, R-18
Grids Completed	F-11-2, H-5-14, K-19-1.2
Mec Encountered (yes or no)	YES
Location	H-5-10
Type	1ea Rkt, 3.5", M28 4ea Fuze, Rkt, M404
M1 Report Number	0331

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	Q-16-25, Q-17-5.9.10.14.15.19.20.24.25, Q-18-5, R-16-21, R-17-1.6.11.16.21, R-18-1
Pass:Fail	PASS

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

31 January 2017

Additional Comments

Photos

Practice 3.5" rocket components recovered from H-5 by Team 3.

Signature	
Andrew Caldwell, Senior UXO Supervisor 	Jeremy Haney, Task Manager 

1 February 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	F-11, H-5, K-19, O-21, R-18
Grids Completed	NO
Mec Encountered (yes or no)	NO
Location	N/A
Type	N/A
M1 Report Number	N/A

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	Q-17-15, R-17-21, Hand Grenade Range

1 February 2017

Additional Comments
Work suspended at 1000 hours due to high wind/unsafe conditions.

Photos
No photo due to unsafe conditions.

Signature	
Andrew Caldwell, Senior UXO Supervisor 	Jeremy Haney, Task Manager 

3 February 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	F-11, H-5, K-19, O-21, R-18
Grids Completed	F-11-1, H-5-15, O-21-3, R-18-2
Mec Encountered (yes or no)	YES
Location	H-5-15
Type	2ea Fuze, Rkt, M404
M1 Report Number	0332

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	H-5-1.2.3.6.7.8.11.12.13.25, H-6-5.10, I-5-21.22, I-6-1.2.6.7
Pass:Fail	PASS

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

3 February 2017

Additional Comments
Work cancelled 2/2 due to unsafe conditions, high winds.

Photos
 Oversized cultural debris removed from R-17 by Team 1.

Signature	
Andrew Caldwell, Senior UXO Supervisor 	Jeremy Haney, Task Manager 

6 February 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	D-5, F-10, K-19, O-21, R-17, R-18
Grids Completed	D-5-5, F-10-5, K-19-3.4, O-21-2, R-17-8
Mec Encountered (yes or no)	YES
Location	H-5-15
Type	1ea Rkt, 2.36", M6
M1 Report Number	0333

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	E-11-1, F-11-1.2.3.4.5, H-5-4.5
Pass:Fail	PASS

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

6 February 2017

Additional Comments

Photos



Large amounts of barbed wire removed by Team 1 from R-17.

Signature	
Andrew Caldwell, Senior UXO Supervisor 	Jeremy Haney, Task Manager 

7 February 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	D-5, F-10, K-19, O-21, R-17, R-18
Grids Completed	F-10-3.4, O-21-1, R-17-23.24, R-18-4
Mec Encountered (yes or no)	NO
Location	N/A
Type	N/A
M1 Report Number	N/A

Demolition	
Demo (yes or no)	YES
See Demo Shot Record	0105, 0106

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	H-5-9.10.14.15, R-17-2.7.12.17.22, R-18-2
Pass:Fail	PASS

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

7 February 2017

Additional Comments

Photos

Cultural debris and MDAS removed from R-17 by Team 2.

Signature	
Andrew Caldwell, Senior UXO Supervisor 	Jeremy Haney, Task Manager 

8 February 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	A-4, D-5, F-10, K-19, N-20, R-17
Grids Completed	A-4-1.2, D-5-3.4, F-10-2, K-19-5, N-20-5
Mec Encountered (yes or no)	YES
Location	K-19-5, N-20-5
Type	2ea 3" Trench Mortar (Unfuzed)
M1 Report Number	0334

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	E-11-1, H-5-4.25, I-5-22, R-17-12 (DoE)

8 February 2017

Additional Comments

Photos

Office staff discuss day to day operations.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

9 February 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	A-4, D-5, F-10, L-19, N-20, R-17
Grids Completed	A-4-3, D-5-2, F-10-1, L-19-1.2, N-20-3.4
Mec Encountered (yes or no)	NO
Location	N/A
Type	N/A
M1 Report Number	N/A

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	YES
Grids QA'd	E-11-1, F-11-1.2.3.4.5, H-5-1.2.3.4.5.25, H-6-5, I-5-21.22, I-6-1.2.6.7, R-17-2.7.12.17.22, R-18-2

9 February 2017

Additional Comments

Photos



Team 7 performing UXO clearance operations in WSA.

Signature	
Andrew Caldwell, Senior UXO Supervisor 	Jeremy Haney, Task Manager 

13 February 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	A-4, D-5, F-10, L-19, N-20, R-17
Grids Completed	A-4-4, D-5-1, F-9-5, L-19-3, N-20-2, R-17-13
Mec Encountered (yes or no)	YES
Location	R-17-13
Type	1ea 3" Trench Mortar (Unfuzed)
M1 Report Number	0335

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	A-4-1.2.3.4, D-5-3.4.5, F-10-1.2.3.4.5
Pass:Fail	PASS

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

13 February 2017

Additional Comments
Last day on site for Schuss. Admin time only, 0 hours field time.

Photos

Refrigerator recovered by Team 1 in R-17.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

14 February 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	A-4, C-5, F-10, L-19, N-20, R-17
Grids Completed	A-4-5, C-5-5, F-9-4, L-19-4, N-20-1, R-17-18
Mec Encountered (yes or no)	YES
Location	R-17-18
Type	1ea Gren, Rifle, M9
M1 Report Number	0336

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	K-19-1.2.3.4.5, L-19-1.2, N-20-3.4.5, O-21-1.2.3
Pass:Fail	PASS

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

14 February 2017

Additional Comments

Photos



Barbed wire removed from R-17 by UXO Team 1.

Signature	
Andrew Caldwell, Senior UXO Supervisor 	Jeremy Haney, Task Manager 

15 February 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	B-4, C-5, F-9, L-19, M-20, R-17
Grids Completed	B-4-1, C-5-3.4, F-9-3, L-19-5, M-20-5, R-17-19
Mec Encountered (yes or no)	YES
Location	L-19-5
Type	1ea Proj, 37mm, MK 1
M1 Report Number	0337

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	F-10-5, H-5-6.13, K-19-2, O-21-3

15 February 2017

Additional Comments

Photos



Cultural debris removed from R-17 by UXO Team 1.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

16 February 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	B-4, C-5, F-9, L-19, M-20, R-17
Grids Completed	B-4-2, C-5-2, F-9-1.2, M-20-1.2.3.4, R-17-14.15
Mec Encountered (yes or no)	NO
Location	N/A
Type	N/A
M1 Report Number	N/A

Demolition	
Demo (yes or no)	YES
See Demo Shot Record	0107, 0108

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	YES
Grids QA'd	F-10-1.2.3.4.5, H-5-6.7.8.9.10.11.12.13.14.15, K-19-1.2.3.4.5, O-21.1.2.3

16 February 2017

Additional Comments

Photos



Cultural debris, MDAS and QC seed found by Team 1 in R-17.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

21 February 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	B-4, C-5, D-6, E-8
Grids Completed	B-4-3, C-5-1, D-6-1, E-8-1.5
Mec Encountered (yes or no)	NO
Location	N/A
Type	N/A
M1 Report Number	N/A

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	A-4-5, B-4-1, C-5-3.4.5, D-6-1, F-9-1.2.3.4.5, L-19-3.4.5, M-20-1.2.3.4.5, N-20-1.2
Pass:Fail	PASS

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

21 February 2017

Additional Comments

Photos

Western Slopes work area.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

22 February 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	B-4, C-5, D-6, E-7, E-8
Grids Completed	B-4-4, D-6-2, E-7-1, E-8-2.4
Mec Encountered (yes or no)	NO
Location	N/A
Type	N/A
M1 Report Number	N/A

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	R-17-3.4.9.13.14.15.18.19.23.24, R-18-3.4
Pass:Fail	PASS

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	A-4-4, D-5-1, F-9-5, M-20-1, N-20-2

22 February 2017

Additional Comments

Photos
 A person wearing a green raincoat and dark pants is walking through a forest, laying a rope. The forest floor is covered with fallen logs and debris. The trees are tall and thin, with moss growing on their trunks.
Team 3 laying ropes in WSA.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

23 February 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	B-4, C-5, D-6, E-7, E-8
Grids Completed	B-4-5, D-6-3, E-7-2.4.5, E-8-3
Mec Encountered (yes or no)	NO
Location	N/A
Type	N/A
M1 Report Number	N/A

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	NO
Pass:Fail	N/A

Quality Assurance	
Pay Units completed (yes or no)	YES
Grids QA'd	A-4-1.2.3.4.5, D-5-1.2.3.4.5, F-9-1.2.3.4.5, L-19-1.2.3.4.5, M-20-1.2.3.4.5, N-20-1.2.3.4.5

23 February 2017

Additional Comments

Photos

Wildlife is left undisturbed by clearance activity in WSA.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 

24 February 2017

Safety	
Safety Brief Given By:	Greg Clark
Accidents or Incidents to Report	NO

MEC Clearance	
Areas/Grids Worked	D-6, E-7
Grids Completed	D-6-4.5, E-7-3
Mec Encountered (yes or no)	NO
Location	N/A
Type	N/A
M1 Report Number	N/A

Demolition	
Demo (yes or no)	NO
See Demo Shot Record	N/A

Vegetation Removal	
Veg Removal (yes or no)	NO
Areas Worked	N/A

Quality Control	
Grids QC'd	B-4-3.4.5, C-5-1.2, D-6-3, E-7-1.2.3.4.5, E-8-1.2.3.4.5
Pass:Fail	PASS

Quality Assurance	
Pay Units completed (yes or no)	NO
Grids QA'd	N/A

24 February 2017

Additional Comments
End of field work, Western Slopes/Phase II.

Photos

QC receives Schondstedts back from field crews for storage.

Signature
Andrew Caldwell, Senior UXO Supervisor  Jeremy Haney, Task Manager 