APPENDIX A

TPP AND PAR MEETING MINUTES

DEPARTMENT OF THE ARMY
INSTALLATION MANAGEMENT COMMAND
HEADQUARTERS, UNITED STATES ARMY GARRISON, PICATINNY
PICATINNY ARSENAL, NEW JERSEY 07806-5000

January 30, 2011

REPLY TO
ATTENTION OF
Environmental Affairs Division

SUBJECT: Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)/Interagency Agreement (IAG) Administrative Docket No. II-CERCLA-FFA-001-04: Final minutes of the 10 November Technical Project Planning Meeting Picatinny Arsenal Military Munitions Response Program Remedial Investigation: Review is ER-A eligible

Mr. William Roach
U.S. Environmental Protection Agency
Region 2
290 Broadway, 18th Floor
New York, NY 10007-1866

Mr. Gregory Zalaskus
New Jersey Department of Environmental Protection
Emergency Management Program
East State Street, Floor 5, P.O. Box 028
Trenton, New Jersey 08625-0028

Dear Sirs:

Enclosed for your records are the final minutes of the Technical Project Planning Meeting Picatinny Arsenal Military Munitions Response Program Remedial Investigation. Mike Glaab, Civilian Co-Chair ofthe RAB provided comments in an email dated 9 January which are now addressed; otherwise I received concurrence on the version emailed on 23 December. Only Bill Roach and Greg Zalaskus are receiving this version hard copy for their administrative files.

Hope to see most of you at the 3 March Restoration Advisory Board Meeting at the Rockaway Hilton.

Sincerely,

Project Manager for
Environmental Restoration

Enclosures
CC (emailed only):
Mr. Jim Kealy, NJDEP
Mr. Joe Marchesani, NJDEP (hardcopy)
Ms. Barbara Dolce, TAPP Contractor
Mike Glabb, RAB Co-Chair
Remainder of the 10 November Attendee List

Final Meeting Minutes
Technical Project Planning Meeting 1
Picatinny Arsenal Military Munitions Response Program Remedial Investigation
Picatinny Arsenal, New Jersey

On 10 November 2010, representatives from the stakeholder organizations listed below attended the Military Munitions Response Program (MMRP) Remedial Investigation (RI) Technical Project Planning (TPP) 1 meeting at Picatinny Arsenal, New Jersey. The purpose of this meeting was to bring all of the stakeholders together to identify and discuss project goals and data quality objectives, and ultimately agree upon the path forward for successfully completing the RI.

Points of Contact:

Picatinny Arsenal Environmental Restoration– Ted Gabel, Project Manager, 973-724-6748
U.S. Army Corps of Engineers – Baltimore District – Nancy Flaherty, Project Manager, 410-779-2796
Contractor, Weston Solutions, Inc. – Laura Pastor, Project Manager, 610-701-3445

Meeting Attendees:

Name	Organization	Title
Richard Braun	USACE – Baltimore District	Risk Assessor
Barbara Dolce	Subsurface Solutions LLC/PTA RAB	TAPP Contractor
Nancy Flaherty	USACE - Baltimore District	Project Manager
Ted Gabel	PTA Environmental Restoration	Project Manager/MMRP Program Manager
Megan G. Garrett	USACE – Baltimore District	Geologist
Michael Glaab	PTA RAB	Member/Co-Chair
Brian Guthrie	WESTON	Geophysicist
Judy Hackett	WESTON	Client Service Manager
Jim Kealy	NJDEP	Technical Coordinator
Mary Ellen Maly	USACE	Army Restoration Manager
Joseph Marchesani	NJDEP	Hydrogeologist
Deborah McKinley	USACE – Baltimore District	Project Engineer
Cliff Morris	PTA RAB/Tilcon (Mt Hope Quarry)	Community Representative/Plant Manager
Laura Pastor	WESTON	Project Manager
Jim Pastorick	UXO Pro/NJDEP	Technical Representative
Bill Roach	USEPA.	Remedial Project Manager
Tom Silecke	PTA	Environmental Affairs
J.B. Smith	PTA	UXO Safety/MMRP Project Manager
Ryan Steigerwalt	WESTON	Senior Geophysicist
Lisa Szegedi	MPI	MMRP Technical Manager
Diane Trocchio	PTA RAB /Rockaway Township Health Department	Member and Township Representative
Deb Volkmer	WESTON	Meeting Recorder
Lisa K. Voyce	PTA RAB/Mine Hill Representative	Member
Greg Zalaskus	NJDEP	Case Manager

AEC – Army Environmental Command
MPI – Malcolm Pirnie
NJDEP – New Jersey Department of Environmental Protection
TAPP – Technical Assistance for Public Participation
USEPA – U.S. Environmental Protection Agency
WESTON – Weston Solutions, Inc.

1. Overview of the TPP and Purpose of the MMRP

(Laura Pastor, WESTON)

Ms. Pastor provided an overview of the TPP process, stressing the importance of collaboration with regulators and stakeholders early in the project planning process. Ms. Pastor discussed that fact that the presentation will be more technically detailed than traditional TPP 1's since the regulators and stakeholders already had a very good understanding of Picatinny Arsenal (PTA)'s MMRP with experience gained during the MMRP Site Inspection.

2. Overview of the Picatinny MMRP Remedial Investigation (RI) Objectives (*Presentation Slides 8-18*)

(Laura Pastor, WESTON)

Ms. Pastor presented an overview of the Picatinny MMRP RI objectives. The discussion included the RI objectives including characterizing the nature and extent of munitions and explosives of concern (MEC) and munitions constituents (MC), planning documentation (work plans), field investigation (data collection), and reporting requirements (RI report with updated conceptual site models, hazard assessments, risk assessments, and Munitions Response Site Prioritization Protocol update).

Mr. Gabel, PTA, briefed the group on the status of the Picatinny MMRP and discussed several previous projects including the MMRP Site Inspection, Environmental Engineering/ Cost Analysis, time critical removal actions (TCRA) at Tilcon quarry and removal action at the Former DRMO Yard. Mr. Gabel mentioned unexploded ordnance (UXO) construction support is required at PTA and an upcoming non time-critical removal action (NTCRA) regarding Land Use Controls (LUC) at Picatinny scheduled shortly and Decision Document regarding the EE/CA.

Mr. Pastorick, UXO Pro, and Mr. Glaab, PTA RAB questioned why the TCRA was stopped. JB Smith indicated that the TCRA demolition processes were currently being investigated by the Picatinny safety department and the Picatinny Command has requested that denotation on and near Picatinny not be conducted by a contractor until this issue is resolved. [Note: The TCRA discussion is not directly related to the MMRP RI.

Ms. Pastor presented the munitions response sites (MRSs) under the MMRP RI performance work statement (PWS):

- 1926 Explosion Radius (PICA-003-R-01)
- 1926 Explosion Radius – Off-Post (PICA-004-R-01)
- Green Pond (PICA-005-R-01)
- Former Operational Area (PICA-006-R-01)
- Lakes (PICA-008-R-01)
- Shell Burial Grounds (PICA-010-R-01)
- Lake Denmark – Off-Post (PICA-012-R-01)
- Inactive Munitions Waste Pit – Off-Post (PICA-014-R-01)

- Ms. Flaherty, USACE, indicated that the Inactive Munitions Waste Pit (on-post) MRS and the Former Munitions and Propellant Test Area MRS are currently identified as optional sites under the PWS. These sites are being evaluated by the installation to determine if they will again be used as operational ranges. If these sites do not go operational they will be included in the Picatinny MMRP RI.

Mr. Kealy, DEP, asked if there were operational areas in the Inactive Munitions Waste Pit MRS. Mr. Smith, PTA responded that ranges do exist in that area and that the ranges stretch from almost the lower tip of Lake Picatinny extending to the northeast and are in the process of being redefined.

Mr. Gabel, PTA, included that the Installation Restoration Program (IRP) is also investigating sites in the MRSs and those areas are not associated with the MMRP.

Mr. Gabel noted that since LUCs (Institutional Controls and Engineering Controls) are most likely the expected outcome for most of the PTA hence the investigation of onsite PTA could be different or less that of offsite.

3. Overview of Data Quality Objectives (DQOs) and Site Wide Conceptual Site Model (CSM) (*Presentation Slides 19-23*)

(Lisa Szegedi, MPI)

Ms. Szegedi, MPI, provided an overview of the DQOs developed based on the EPA's 7 Step Process to develop characterization strategies for each MRS. The CSMs developed for each site was used to determine the primary MEC and MC release mechanism which drove the problem statement for the characterization strategy.

4. MEC and MC Characterization Strategies (*Presentation Slides 24-32*)

(Lisa Szegedi, Malcolm Pirnie and Ryan Steigerwalt, WESTON)

Ms.Szededi and Mr. Steigerwalt, WESTON, presented the details of the proposed investigative field activities. An overview of the investigation approach for MEC was discussed including the statistical applications used to determine type, coverage and location of geophysical surveys (including mag & dig surveys and digital geophysical mapping). MC sampling strategies and techniques were developed using a combination of discrete and statistically sampling designs to fully characterize potential MEC releases.

Mr. Steigerwalt provided details of the application of the statistical tools Visual Sample Plan (VSP) and UXO Estimator. In summary, the VSP is used to develop a sampling plan at MRSs with potential MEC releases where locations are unknown. UXO Estimator develops sampling plans at MRS with a homogeneous distribution of MEC to assess remaining MEC density.

Mr. Roach, EPA, asked about the standard for homogenous distribution. Mr. Steigerwalt responded that a non-homogenous area would be an impact area that was high density and the surrounding area would be a lower density. In a homogeneous area, you have the same probability of finding MEC in one area as you would another.

Mr. Steigerwalt explains that to meet performance objectives for positioning (GPS), GPS will be used first. If it fails, then a laser system (Robotic Total Station) or line and fiducial positioning would be used.

Mr. Pastorick mentioned that he has been working with Ms. Amy Walker (USACE) on a separate project where a similar geophysical system verification process to what is planned for Picatinny is being used. The industry standard objects being used for that project were not providing standard responses. Mr. Pastorick questioned how WESTON planned to address this issue. An idea was brought up to test each item before seeding them. It was also mentioned that the original GPO seeds could possibly be used.

Mr. Zalaskus, DEP questioned if enough previous work has been performed in the 1926 explosion radius to understand the site and reduce the amount of work that would need to be conducted as part of the MMRP RI. Mr. Steigerwalt responded that the team will use this information for site characterization, however the data isn't compatible with the statistical approaches we plan to use for the RI and additional data needs to be collected to achieve our objectives

Mr.Zalaskus asked how the previous MEC items recovered across the installation will be used as part of the MMRP RI. Mr. Steigerwalt responded that the MEC recovery information available will be included in a project GIS database for further evaluation.

Mr. Smith indicated that MEC recovery information from the UXO Finds map may not be completely accurate. Locations of previous MEC recovered on the installation may be generalized rather than presenting an exact location. Ms. Szegedi noted that the UXO Finds map is currently being digitalized and the metadata will indicate that these items are only approximate locations to differentiate from items that have exact GPS positions.

Ms. Voyce, PTA RAB suggested looking at a different sampling design for MC that starts with biased areas and then layer the statistical sampling on that.

The presentation listed potential MC that can be expected based on munitions that have been used at the site. These MC will be used to focus sample analysis. The list of potential MC contaminants can be expanded if different munitions types are recovered.

Mr. Gabel asked if there will be a step out process for samples that have elevated MC concentrations. Ms. Szegedi responded that it would be a phased sampling approach which includes delineation. Sampling data would be analyzed and if results are above Applicable or Relevant and Appropriate Requirements (ARARs), step out (phase II) sampling would be conducted.

Table shown on the next page is a summary of MEC/MC activities applicable to each MRS.

MRS	MEC Activities	MC Activities
1926 Explosion Radius (PICA-003-R-01)	Yes	Yes; assumed to be associated with MEC
1926 Explosion Site – Off-Post (PICA-004-R-01)	Yes	Yes; assumed to be associated with MEC
Shell Burial Grounds (PICA-010-R-01)	Yes	No; covered under IRP
Green Pond (PICA-005-R-01)	Yes	No; covered under IRP
Former Operational Areas (PICA-006-R-01)	Yes	Yes; gridded and biased (associated with MEC)
Inactive Munitions Waste Pit – Off-Post (PICA-014-R-01)	Yes	Yes; assumed to be associated with MEC
Lakes (PICA-008-R-01)	Yes	Yes; land only (assumed to be associated with MEC)
Lake Denmark – Off-Post (PICA-012-R-01)	Yes	Yes; assumed to be associated with MEC

5. MRS Specific Discussions (*Presentation Slides 33-123*)

(Lisa Szegedi, Malcolm Pirnie and Ryan Steigerwalt, WESTON)

Ms. Szegedi and Mr. Steigerwalt presented the technical approach each of the eight Picatinny MRSs, with each MRS addressed independently. The CSM (current and future land use and former military munitions-related activities, SI results and recommendations) for each MRS was presented. The details of the RI technical approach discussion including locations and quantities of geophysical surveys and MC sampling requirements for each MRS. The following sections summarize the proposed technical approaches, discussions and questions posed by the stakeholders after each MRS presentation.

1926 Explosion Radius (*Presentation Slides 33-57*)

The MEC characterization strategy for the 1926 Explosion radius is to investigate the two MRSs as one. An inner radius and an outer radius have been identified in the SI. The strategy for the Inner Radius is to perform geophysical investigations of 17, 50x50 ft grids randomly distributed in undisturbed areas to determine at a 95% confidence level MEC density is less than an average of 3MEC/acre (UXO Estimator). DGM will be performed on the grids unless areas are inaccessible to the DGM equipment. All anomalies are to be intrusively investigated. The strategy for the outer radius is to perform mag and dig on 43 (50 x 50 ft grids) and DGM on 59 (50x50 ft) grids randomly distributed in undisturbed areas to verify at a 95% confidence level MEC density of less than 0.5MEC/acre (UXO Estimator). All anomalies are to be intrusively investigated.
The MC sampling strategy is to perform biased sampling where MEC or MPPEH is found and has evidence of being breached (cracked or leaking). Samples will not be collected under intact items. Phase II step-out sampling to delineate MC, if necessary

Mr.Pastorick asked if the data from the work completed at Tilcon was included. Ms. Szegedi responded that the data from the EE/CA and TCRA was being used and provided a brief discussion of the previous work conducted and results.

Ms. Flaherty said that it appears that the Child Development Center (CDC) had some other purpose that was not associated with the 1926 explosion since munitions not associated with that time period were recovered. Mr. Zalaskus asked if the CDC location was treated differently. Ms. Flaherty said the removal at the CDC area was performed during the EE/CA because the installation needed that site.

Ms. Dolce asked if the CDC site was still considered part of the 1926 explosion, a separate site, and considered in the RI even though the EE/CA was performed there. Ms. Szegedi responded the CDC area is included in the RI as part of the 1926 Explosion Radius MRS. Ms. Maly, AEC, said that during an RI it is not uncommon to investigate a larger area with smaller areas of interest long as they are similar in nature. It is possible to find that there are other areas similar to the CDC during the investigation so it is not necessary to split out one area at this time. It is an administrative hassle on the Army side.

Mr.Glaab asked if the MEC density at the CDC was unusually high. Mr. Gabel responded that it was higher than any other area included in the EE/CA. Ms. Flaherty said the CDC location was primarily undeveloped and all the munitions were removed before building the center. Mr. Smith said the MMRP provides UXO construction support for intrusive work at areas known to have been subjected to munitions related activities.

Mr.Kealy asked if the work should include investigating the area outside the footprint of the CDC. Lisa Szegedi noted that the CDC falls into the high density division of the 1926 Explosion Radius MRS.

Mr.Pastorick asked why 3 MEC per acre within the inner circle of the 1926 radius was selected as the goal and was it adequate for future decision making. Mr. Steigerwalt responded that it was based on results of previous finds, TCRA and EE/CA information.

Mr. Pastorick asked if there was any advantage to conduct biased sampling in the inner circle that can help with decision making. Ms. Szegedi responded that sampling will be conducted in grids that are located in undisturbed areas (where most of the MEC recovered during the EE/CA were found). Additional discussion focused on the sampling design. Mr. Steigerwalt said the sampling design developed using UXO Estimator isn't to locate MEC but to confirm that there is less than a certain number of MEC per acre in a specific area.

Ms. Pastor said that it is possible and Weston is working with USACE to hold a workshop for the UXO estimator and VSP applications for anyone who would be interested. Attendees expressed interest in such a workshop. Ms. Maly said the Army has a MMRP 101 class that is 3½ days but could be focused to meet the needs of the group. Ms. Flaherty said the team will look into options.

Shell Burial Grounds (*Presentation Slides 58-62*)

The MEC characterization strategy for the shell burial grounds is to delineate buried debris at crater locations. Geophysical investigations will be performed on 0.23 acres or 3,326 linear feet. Transect surveys will be performed on 75-ft spacing using an EM31-MK2. The results of the surveys will be used to confirm/refine the MRS footprints and determine the horizontal and vertical extents. No

intrusive investigations are planned. MC investigations will not be performed as it has been addressed under the IRP.

Barbara Dolce asked what the team expects to accomplish there because it is already fenced and the certain volume of material is known, why not just evaluate the perimeter. Mr. Smith said the team is trying to characterize the site and confirm if the site is larger or smaller and to ensure the proper controls are in place.

Green Pond (*Presentation Slides 63-70*)

Geophysical investigations will be performed on 2.82 acres. Mag & dig transects will be performed in accessible areas of the Former DRMO Yard (not including areas previously excavated areas), along the banks and in the water of Green Pond Brook for a total coverage of 2.5 acres or 2.08 miles. EM31-MK2 transect surveys will be performed along the banks of Green Pond Brook to identify disposal/fill areas for a total coverage of 0.26 acres or 3,800 linear feet. Mag & dig focused grids (0.06 acres) will be placed in areas identified as disposal/fill areas from the EM31-MK2 surveys. All anomalies will be intrusively investigated in the grids. MC investigations will not be performed as it has been addressed under the IRP. The 300 Marsh Area is co-located to Green Pond and will be discussed later in the presentation.

Mr.Zalaskus asked if it was possible that MEC was disposed of in EOD Pond or other ponds in the areas and if the ponds were natural or man-made. Ms.Szegedi responded that there was anecdotal evidence that they might have dumped into Picatinny Lake and Lake Denmark. Ponds were wetlands at time of explosion and historical photographs before 1926 did not show if the ponds were naturally formed or man-made.

Former Operational Areas (*Presentation Slides 71-85*)

The MEC characterization strategy for the Former Operational Areas consists of performing mag & dig or DGM transects on 250-ft spacing as determine from VSP calculations. VSP input includes using a potential size of MEC release of approximately 5-acres and applying 10 anomalies/acre with a potential MEC release area of 50 anomalies/acre. Total coverage of mag & dig surveys is 72 acres or 60 miles. A total of 5.5 acres or 15 miles of DGM transects using an EM61-MK2 will be performed. Additional transects may be required to delineate potential MEC. Additional transects may be required to delineate potential MEC. Five 100-ft x 100-ft focused grids (1.15 acres) will be placed in areas identified from transect surveys to evaluate geophysical anomalies. The MEC characterization strategy for the Former Sanitary Landfill and Waste Burial Areas will be to delineate the horizontal extents of these areas. Geophysical investigations will consist of performing EM31-MK2 transect surveys on 75-ft spacing across the landfill and burial areas. The MC characterization strategy for the MRS is to take a gridded sampling approach. Only soil samples will be collected as most water bodies are covered under the IRP. The sampling areas exclude all partially or wholly collocated IRP sites. Sample locations determined by VSP with assumptions that the site is contaminated, not normally distributed, and to collect data to reach 95% confidence level. Approximately 90 samples will be collected at 6-12 inches below ground surface. Phase II step sampling will be performed to delineate the extent of MC, if necessary.

Mr.Kealy asked if MEC items recovered during the geophysical surveys will be blow-in-place. Laura Pastor responded they will blow-in-place when they find something. Nancy Flaherty added that demolition activities may be performed by EOD.

Mr. Gabel clarified that G2 Pond, Stillwell Pond, and Hydro Pond (Presentation Slide 81) are not part of the eligible area and are not included in the MMRP.

Picatinny Lake (*Presentation Slides 86-96*)

Geophysical investigations of Picatinny Lake will consist of two phases and includes performing surveys across the lake (water investigations), and surveys of the land portions around the lake. The strategy for water investigations will be to evaluate existing geophysical data to create a dig list for the investigation. Underwater DGM transects will be perform to verify the existing geophysical data and to fill in data gaps. A total of 3 miles or 1 acre of transects will be performed across the lake. The data will be analyzed and additional targets will be added to the dig list. Prior to performing underwater intrusive investigations, DGM instrumentation will be used to refine target locations. Qualified divers will investigate 25 anomalies. Additional investigations will be performed on near shore/shoreline anomalies based on the existing data and mag & dig transect results. Land investigations will consist of performing 2.7 miles or 3.2 acres of mag & dig transect surveys along the shoreline of the lake, and across the firing point and slug butt locations. A 100-ft x 100-ft (0.25 acres) focused grid will be placed at the firing point to look for potential burial pits of DMM. An EM61-MK2 will be used to survey the grid and all anomalies will be intrusively investigated. No MC sampling.

Mr.Zalaskus asked if the water investigation was only visual or would the team dive investigate. Mr. Steigerwalt responded that first the team will locate the anomaly source and then dive team would intrusively investigate the anomaly.

Ms. Pastor stated that the underwater investigations are planned for sometime in 2012.

Lake Denmark (*Presentation Slides 97-107*)

Geophysical investigations of Lake Denmark will consist of two phases and includes performing surveys across the lake (water investigations), and surveys of the land portions around the lake. The strategy for water investigations will be to evaluate existing geophysical data to create a dig list for the investigation. Underwater DGM transects will be perform in the mortar range impact area. A total of 4.4 miles or 1.6 acres will be collected. The data will be analyzed and additional targets will be added to the dig list. Underwater intrusive investigations will be performed on 5 high density area target locations by qualified divers. Additional investigations will be performed on near shore/shoreline anomalies based on the existing data and mag & dig transect results.

Land investigations will consist of performing mag & dig transects surveys and DGM focused grids. Transect spacing on the northern side of the lake will be 120-ft, based on VSP calculations with 20-mm projectile input parameters. The southern side of the lake will consist of 225-ft transect spacing based on VSP calculations with 60-mm mortar input parameters. A total of 10.9 miles or 13.4 acres of mag & dig transect surveys and shoreline surveys will be collected. Additional transects may be performed as needed (20-mm impact area) to fully delineate MEC. One DGM focused grid (100-ft x 100-ft) will be placed at each of the firing points and surveyed with an EM61-MK2 to look for potential DMM burial areas. All anomalies will be intrusively investigated within each grid

Mr.Kealy asked what the ultimate goal at this MRS was assuming that Lake Denmark contains mortars. Mr.Smith responded that currently land use controls are in place for the lake. Recreational users must remain in boats and swimming is prohibited.

Lake Denmark – Off-Post (*Presentation Slides 108-116*)

The MEC characterization strategy for Lake Denmark-Off Post is to will consist of performing 3.25 miles or 3.9 acres of mag & dig transect surveys at a spacing of 225-ft based on VSP calculations with 60-mm mortar input parameters. The surveys will be a continuation of the Lake Denmark (On Post) surveys on the southern side of the lake. Additional transects may be performed as necessary to delineate MEC. Four focused grids (0.94 acres) will be placed in areas identified from transect surveys to evaluate geophysical anomalies. All anomalies will be intrusively investigated.
MC sampling will be performed if MEC and/or MPPEH is discovered during the mag & dig surveys. Samples collected will be biased towards MEC locations. Phase II step-out sampling to delineate MC will be performed, if needed.

Inactive Munitions Waste Pit – Off-Post (*Presentation Slides 117-123*)

The characterization strategy for the Inactive Munitions Waste Pit-Off Post will be to perform full coverage mag & dig surveys of all accessible areas. These areas are primarily located at the top and bottom of the slope. Total coverage is approximately 3 acres.

6. Technical Approach – 300 Marsh Area (*Presentation Slides 124-128*)

(Lisa Szegedi, Malcolm Pirnie)

The MEC characterization strategy for the 300 Marsh Area is to perform focused mag & dig transects spaced 50-ft apart to determine anomaly densities across the area. One EM61-MK2 DGM grid (100-ft x 100-ft) will be placed in a high density area as determined from the transect survey to determine the nature/extent of MEC. All anomalies will be investigated within the grid as well as transects.

MC sampling strategy will follow an approved PTA Work Plan for the 300 Marsh Area. Up to 15 biased MC samples will be collected adjacent to disturbed soil, MEC, and or MPPEH. If there are less than 15 biased sample locations identified, soil samples will be gridded across the area and collected at multiple depths to define the areal extent of contaminants of potential concern (COPCs). The results of the soil samples will be used to evaluate risk based on concentrations detected

The presentation summarized site information, MEC characterization, chemical sampling, and analyses required for the 300 Marsh Area, which is not a separate MRS but is included in the MMRP as part of the 1926 Explosion Radius.

7. Next Steps (*Presentation Slide 129*)

(Laura Pastor, WESTON)

Ms. Pastor provided a discussion of the next steps of the TPP process. Work plan development would continue taking into account the TPP 1 discussions. Anticipated schedule to submit draft to Army and draft final to regulators/stakeholders was presented **[Note: schedule has been revised to reflect a draft submittal to Army on February 2011. Draft final submittal to regulators sometime in April 2011].** A TPP Meeting 2 will be scheduled a few weeks after the draft final has been submitted to the regulators. This will allow the regulators/stakeholders an opportunity to digest the approaches for additional discussion. In addition, a more in-depth discussion on implementation and logistics will be included for this meeting. Field activities are scheduled to begin late in 2011.

Additional Discussions

A conversation was held to discuss Tilcon's land management plans to build a berm on their property and the potential delays in doing this due to the delays in completing the TCRA. The regulators expressed discontent about covering potential MEC. The Army will work to resolve TCRA delays so that Tilcon can proceed with their plans.

Action Items

- Complete and distribute TPP 1 meeting minutes.

As required by the TPP process, the following table lists the stakeholders who were unable to attend the TPP 1 meeting.

Name	Organization	Title
Tom Colozza	USACE – Baltimore District	QA Geophysicist
Travis McCoun	USACE – Baltimore District	MMRP Program Manager

DEPARTMENT OF THE ARMY
INSTALLATION MANAGEMENT COMMAND
HEADQUARTERS, UNITED STATES ARMY GARRISON, PICATINNY
PICATINNY ARSENAL, NEW JERSEY 07806-5000

September 1, 2011

REPLY TO
ATTENTION OF

Environmental Affairs Division

SUBJECT: Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)/Interagency Agreement (IAG) Administrative Docket No. II-CERCLA-FFA-001-04: Final Meeting Minutes for the July 28th Technical Project Planning Meeting Military Munitions Response Program Remedial Investigation: Review is ER-A eligible

Mr. William Roach
U.S. Environmental Protection Agency
Region 2
290 Broadway, 18th Floor
New York, NY 10007-1866

Mr. Gregory Zalaskus
New Jersey Department of Environmental Protection
Emergency Management Program
East State Street, Floor 5, P.O. Box 028
Trenton, New Jersey 08625-0028

Dear Sirs:

Enclosed for your records are the Final Meeting Minutes for the July 28th Technical Project Planning Meeting Military Munitions Response Program Remedial Investigation.

The Army-approved minutes that have been modified based on comments contained in email from Greg Zalaskus. NJDEP PM, Lisa Voyce, member of the Restoration Advisory Board (RAB) and Mike Glaab, Civilian Co Chair of RAB (see attached.) I am also providing a response to comments for clarification on how the minutes were changed. Bill Roach gave his concurrence on the minutes on 30 August.

Sincerely,

Project Manager for
Environmental Restoration

Enclosures
CC (emailed only):
Mr. Jim Kealy, NJDEP
Mr. Joe Marchesani, NJDEP (hardcopy)
Ms. Barbara Dolce, TAPP Contractor
Mike Glabb, RAB Co-Chair
Remainder of the 10 November Attendee List

Attachment:
Copies of emails providing comments or concurrence to the Army Approved Minutes

1. Copy of 29 August email from Bill Roach, EPA PM:

From: Roach.Bill@epamail.epa.gov [mailto:Roach.Bill@epamail.epa.gov]
Sent: Tuesday, August 30, 2011 10:25 AM
To: Gabel, Ted Mr CIV USA IMCOM
Cc: subsurfacesolns@earthlink.net; gzalasku@dep.state.nj.us
Subject: Re: Army Minutes from the TPP Meeting (UNCLASSIFIED)

Ted, I have no comments on these meeting minutes.

2. Copy of 25 August email from Mr. Mike Glaab, RAB CoChair:

From: Michael [mailto:michaelglaab@att.net]
Sent: Thursday, August 25, 2011 2:28 PM
To: Gabel, Ted Mr CIV USA IMCOM
Cc: P. E. William A. Roach; Gregory Zalaskus; Barbara Dolce
Subject: RE: Army Minutes from the TPP Meeting (UNCLASSIFIED)

Hello Ted:

Just a few possible typos noted. Suggestions are included in the attached file as inserted notes.

- ***"Mr. Zalaskus, NJDEP and Mr. Pastorick, UXO Pro, also indicated that stating there is a health and safety concern with intrusive investigations at this MRS is not sufficient. Additional information is required to definitively state that intrusive investigations cannot be completed. Ms. Maly, USAEC, suggested that the Army team ask USATCES and DDESB if intrusive work in the shell burial grounds would be allowed. Mr. Smith, PTA, also indicated that the evacuation distance would likely involve evacuating numerous surrounding towns and would affect several major highways."***

In addition, please note the following with regard to the record of discussion on page 5 concerning further investigation of certain locations where significant amounts of MEC may possibly exist:1. Though the word "drill" was uttered several times during the second day's meeting it was not included in the minutes. The phrase "intrusive investigation" was used instead. This seems acceptable to me since I assume that "intrusive investigation" may be presumed to be inclusive of drilling for samples as a possible option.
2. Although the possibility of having to conduct an evacuation of Jefferson was specifically mentioned during the second day's meeting the word "Jefferson" was not included in the minutes. However, since the minutes do clearly indicate discussion regarding possible evacuation of areas inside and outside the arsenal this seems acceptable.

Respectfully,
Michael Glaab

3. Copy of 26 August email from Ms. Lisa Voyce, RAB member:

From: Voyce, Lisa [mailto:Lisa.Voyce@hdrinc.com]
Sent: Friday, August 26, 2011 9:21 AM
To: Gabel, Ted Mr CIV USA IMCOM
Subject: RE: REMINDER: Army Minutes from the TPP Meeting (UNCLASSIFIED)

Mr. Gabel,

Went through briefly, very nicely done sir.

One thing – p. 3, last bullet – please delete the "there" after "However". Not needed.

4. Copy of 26 August email from Mr. Greg Zalaskus, NJDEP PM with internal memorandum from Jim Pastorick of UXOPRO:

From: njzalaskus [mailto:njzalaskus@comcast.net]
Sent: Friday, August 26, 2011 8:32 PM
To: Gabel, Ted Mr CIV USA IMCOM
Cc: Jim Kealy; Robert VanFossen
Subject: NJDEP TPP Meeting Minutes Comments

Ted: Please see NJDEP Emergency Management comments attached.

From: Jim Pastorick
To: Greg Zalaskus
Date: August 26 2011
Subject: Review of the Army Picatinny Meeting Report for July 28, 2011

Greg:

I reviewed the subject document and find that only the following item from my report are not included in the Army report:

- ***There was discussion of PICA-13, the Inactive Waste Pit. Gravel mines were unexpectedly found there. This unexpected finding caused the IRP investigation at this site to be stopped. There was discussion about whether the MR project could help restart the PICA-13 investigation since it is an MEC issue that caused it to be stopped. Ted said that it is possible that the PICA-13 investigation could be added to the MR RI list of sites to have the excavation there completed under the MR project. But, he isn't sure how this will be resolved. Lisa said they will research if it is possible to add this site to the MEC RI because of the MEC that was found. Whatever resolution is decided, there will need to be new DQOs developed for MEC at this site because of this change to the CSM. It is possible that the Shaw work plan for trenching may not be adequate due to this new hazard.***

Please contact me if you have comments or questions on this document review.

Thank you,

Final Meeting Minutes
Technical Project Planning Meeting 2
Picatinny Arsenal Military Munitions Response Program Remedial Investigation
Picatinny Arsenal, New Jersey
July 28, 2011

Attendees:

Name	Organization	Email	Phone
Richard Braun	USACE	Richard.j.braun@usace.army.mil	410-962-2842
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Nancy Flaherty	USACE	Nancy.e.flaherty@usace.army.mil	410-962-4256
Ted Gabel	PTA	Ted.gabel@us.army.mil	973-724-6748
Megan Garrett	USACE	Megan.g.garrett@usace.army.mil	410-962-6813
Michael Glaab	PAERAB	michaelglaab@att.net	973-663-9605
Jim Kealy	NJDEP	Jim.kealy@dep.state.nj.us	609-633-1352
John Malleck	EPA	Malleck.john@epa.gov	212-634-4332
Mary Ellen Maly	USAEC	Maryellen.h.maly@us.army.mil	210-466-0384
Joseph Marchesani	NJDEP	Joe.marchesani@dep.state.nj.us	609-292-0885
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Jim Pastorick	UXO Pro	jim@uxopro.com	703-548-5300
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Eric Stahl	WESTON	Eric.stahl@westonsolutions.com	610-701-3732
Ryan Steigerwalt	WESTON	ryan.steigerwalt@westonsolutions.com	410-612-5940
Lisa Szegedi	ARCADIS/Malcolm Pirnie	Lisa.szegedi@arcadis-us.com	201-398-4328
Lisa Voyce	PAERAB	Lisa.voyce@hdrinc.com	973-558-3910
Greg Zalaskus	NJDEP	Greg.zalaskus@dep.state.nj.us	609-984-2065

EPA – U.S. Environmental Protection Agency
NJDEP – N.J. Department of Environmental Protection
PAERAB – Picatinny Arsenal Environmental Restoration Advisory Board
PTA - Picatinny
TAPP – Technical Assistance for Public Participation
USACE – U.S. Army Corps of Engineers
USAEC – U.S. Army Environmental Command

Final Meeting Minutes
Technical Project Planning Meeting 2
Picatinny Arsenal Military Munitions Response Program Remedial Investigation
Picatinny Arsenal, New Jersey
July 28, 2011

The purpose of this meeting was to discuss the proposed technical approach for the Military Munitions Response Program (MMRP) Remedial Investigation (RI) program at Picatinny Arsenal (PTA). This approach is detailed in the *Draft Final Work Plan, Military Munitions Response Program Remedial Investigations,* Picatinny Arsenal, Morris County, New Jersey, July 2011. A copy of this document was sent to the agencies prior to this meeting. Issues/concerns discussed during the meeting are detailed below.

Operational Range Footprint – As discussed by Mr. Gabel and Mr. Smith, PTA has revised their operational range footprint. Ms. Pastor noted that this is not reflected in the current planning documents but will have the following effect on subsequent versions of the planning documents.

- The acreage of Munitions Response Site (MRS) PICA-006-R-01 (Former Operational Areas) will be increased by approximately 370 acres. While this will not change the MC and MEC approaches, as noted by Ms. Flaherty, USACE, and Laura Pastor, the planning documents will have to be modified to account for the additional acreage. This could include extending the munitions and explosives of concern (MEC) transects and using Visual Sampling Plan (VSP) to recalculate the number of gridded munitions constituents (MC) samples required.

- MRS PICA-013-R-01 (Inactive Munitions Waste Pit) will be optioned under the current CENAB contract and included in the RI. Since a portion of the Inactive Munitions Waste Pit MRS is now operational range, the acreage of this site will be decreased by approximately 42 acres. Ms. Pastor indicated this MRS will be added to the Work Plan (WP) in an addendum to be reviewed by the regulators and incorporated into the Final Work Plan.

- During discussion of the Sanitary Landfill/Dredge Piles, Mr. Gabel, PTA, indicated that the revised operational range footprint shown on the map is incorrect. The Weston team will work with Mr. Huggan, PTA, to obtain the correct Geographic Information System (GIS) layer.

MC Sampling – The following general MC sampling questions were raised during the presentation. MRS-specific questions are discussed in the MRS write-ups.

- Mr. Marchesani, NJDEP, asked if SW-846 6010B can be used to analyze for cadmium and chromium. Ms. Szegedi indicated that this analytical method can be used for both metals; however, this method cannot be used for speciation of chromium. Ms. Szegedi also noted that based on the munitions used at PTA, chromium has not been identified as a contaminant of potential concern.

- Mr. Zalaskus, NJDEP, was concerned about the use of pyrotechnics (*e.g.*, Flare Island in Picatinny Lake), and whether the list of MC of concern will cover these compounds. Ms. Szegedi explained that all areas with known pyrotechnics use are covered under the Installation Restoration Program (IRP).

- During a review of the unexploded ordnance (UXO) Find Map, Mr. Zalaskus, NJDEP, noted that several bottles of chemicals are listed including picric acid, dioxane, tetrahydrofuran, and ammonium nitrate (ANFO). Mr. Zalaskus asked if these chemicals are covered under the proposed MC sampling. As explained by Ms. Szegedi:

    - Picric acid – is an explosive compound on the current MC analytical list
    - Dioxane – is a solvent not associated with munitions
    - Tetrahydrofuran – is a solvent not associated with munitions
    - ANFO – is an explosive that is not included on the MC analytical list since there is no reliable analytical method, it is only associated with one munitions type used at PTA, and there are no NJDEP or EPA screening levels for this compound

- Mr. Marchesani, NJDEP asked what media will be included in the MC sampling. Ms. Szegedi answered that since surface water and groundwater are covered under the IRP, only soil and sediment samples will be collected under the MMRP MC sampling program.

- Ms. Dolce, TAPP, asked what happens when different screening levels have different values for the same parameter. Ms. Szegedi explained that the most stringent screening level will be used.

- Mr. Zalaskus, NJDEP, asked if the residential screening levels will be the cleanup levels. As explained by Ms. Szegedi, the screening levels are not cleanup levels and are only used to identify contaminants of potential concern. Cleanup levels are determined during the feasibility study, based on the results of the risk assessment. Mr. Gable, PTA, noted that using residential screening levels instead of industrial screening levels is a conservative approach.

- Ms. Maly, USAEC, asked how the MC characterization approach would be modified if burial pits were found. Ms. Szegedi indicated that if burial pits are found, it is likely a gridded approach would be implemented to define vertical and horizontal nature and extent. This would require a WP addendum.

<u>Risk Assessment</u> – The following questions were raised regarding the risk assessment.

- Mr. Schwartz, USACE asked what the first step is in the risk assessment. Mr. Califano explained the data will initially be evaluated to identify contaminants of potential concern.

- Ms. Voyce, PAERAB asked how surface and subsurface data would be aggregated. Ms. Szegedi explained that based on previous data from PTA, it is likely that the majority of MEC found will be from 0 to 2 feet below ground surface (bgs). All samples collected within two

feet bgs will be considered surficial and all samples below two feet bgs will be considered subsurface.

- During Mr. Califano's description of the phased Risk Assessment approach proposed for PTA, Ms. Voyce, PAERAB, asked if a data evaluation report will be prepared. Mr. Califano explained that the data will be validated, and the RA process will be followed. However, a separate data evaluation report will not be developed.

1926 Explosion Radius On and Off-Post MRS (PICA-003-R-01 and PICA-004-R-01) – The following questions were raised regarding this MRS. Note that UXO Pro submitted written comments regarding this MRS before this meeting. Where applicable, these questions were discussed during the TPP.

- Mr. Zalaskus, NJDEP, indicated they were uncomfortable with the assumption that the Former Projectile Range only used inert rounds. Ms. Szegedi and Mr. Smith, PTA, explained that this assumption was made based on historical maps and photographs since the firing point is extremely close to the slug butt (approximately 100 feet), there is no protective cover for the firing point, and there were numerous buildings very close to the range. Mr. Smith, PTA, also indicated it was likely that the high explosive (HE) range was the range on Picatinny Lake. Ms. Szegedi noted that the slug butt is being decontaminated under another contract. Mr. Zalaskus, NJDEP, indicated they accepted this explanation.

- During the discussion of the Engineering Evaluation/Cost Analysis (EE/CA), Mr. Zalaskus, NJDEP, asked why the majority of the MEC found were at the Child Development Center (CDC). Ms. Flaherty, USACE, and Mr. Smith, PTA, explained that the majority of MEC finds on-post, as well as off-post at the Mt. Hope Quarry, have been in undisturbed areas.

- Mr. Pastorick, UXO Pro indicated that the conceptual site model (CSM) for the 1926 Explosion Radius – Off-Post indicates that use of the off-post property is not expected to change in the future. Since these properties are not under Army control this statement is unsupported and is not accurate for the WP. Ms. Szegedi indicated that while each off-post property has been contacted, and has indicated they do not have plans to change the current property use. Ms. Pastor stated that the Weston team agrees that this statement is unsupported will be revised in the WP, as appropriate. The MEC HA will also reflect that the properties are not under Army control.

  Additional discussions regarding this issue centered around the possibility of placing deed restrictions on the properties and how to avoid having the property owner change land use in the future without notifying the Army. During the Site Investigation (SI), the installation commander sent a letter to all the off-post property owners notifying them that their property is located within an MRS. Furthermore, if a zoning variance from commercial to residential

would be requested for any of these properties, the zoning board would need to review the application.

- Since the Army does not have control of the off-post properties, Mr. Glaab, PAERAB, indicated that this needs to be taken into consideration in the RI approach. Ms. Szegedi explained that for the MC, residential screening levels, which are the most conservative screening levels, are being used. Mr. Pastorick, UXO Pro, explained that there is no residential guidance for MEC.

- Mr. Zalaskus, NJDEP, asked how many craters were formed during the explosion. As explained by Ms. Szegedi, three large craters, two near the south-central portion of the installation and one near the installation boundary, were created in the explosion and are considered the explosion centers. However, there are only two shell burial grounds since two of the craters are so close to each other they became one shell burial ground.

- Mr. Pastorick, UXO Pro asked if EM requires intrusive investigation. Mr. Steigerwalt indicated that all anomalies will be processed and dug.

- Mr. Pastorick, UXO Pro asked if the MEC approach will determine if there are less than 3 MEC/acre in the inner radius, and if so, is that enough information. Mr. Steigerwalt responded that since it is known that MEC are present based on the EE/CA, as well as other historical reports, this information is sufficient and will be used for cost estimating purposes. Mr. Schwartz added that this information will also be used in the MEC HA.

- Mr. Kealy, NJDEP asked why 3 MEC/acre was selected since previous data collected from the CDC during the EE/CA indicate 6 MEC/acre. Mr. Steigerwalt indicated that 3 MEC/acre was selected as a more conservative value since the CDC is very close to the explosion center and using a higher number would reduce the amount of investigation required.

- Mr. Pastorick, UXO Pro asked for more information regarding the analog transect proposed for the Code 300 Area. Mr. Steigerwalt indicated that this approach is similar to a mag and flag or mag and record and that the locations of all anomalies detected will be recorded. The purpose is to look for areas of increased anomaly density to see if there is a potential target. In addition, during the survey, the field technician will be looking for ground features that support the presence of a target area.

  Mr. Marchesani, NJDEP, asked if the anomaly locations would be recorded with enough accuracy that they could be easily re-located. Mr. Stacy explained that the GPS being used has sub-meter accuracy. In addition, as indicated by Mr. Steigerwalt, if an anomaly would need to be re-acquired in the future, a sweep of the area would be conducted to ensure the anomaly was located.

- Mr. Gabel, PTA, asked why there are grids on Mt. Hope Quarry since the quarry does not want us conducting additional work on their property. Ms. Szegedi explained that when the sampling approach was developed, a portion of off-post property was owned by Mt. Hope Hydro; this property has subsequently been purchased by Tilcon. During a discussion regarding access to Tilcon's property, Cliff Morris, the Mt. Hope Quarry manager, indicated that he would decide whether or not to grant access for the RI work based on the grid locations.

Shell Burial Grounds (PICA-010-R-01) – Numerous concerns were raised regarding this MRS during the meeting, and in written comments submitted by UXO Pro prior to the TPP. The concerns are listed below. Due to the volume of regulator concerns it was decided that a separate call/meeting would be held for this MRS at a future date.

- Mr. Kealy and Mr. Zalaskus, NJDEP, indicated that it is unknown exactly what was placed in the craters since the Navy used them for disposal for approximately 20 years. Therefore, quantities and types of waste cannot be documented.

- Mr. Zalaskus, NJDEP and Mr. Pastorick, UXO Pro, also indicated that stating there is a health and safety concern with intrusive investigations at this MRS is not sufficient. Additional information is required to definitively state that intrusive investigations cannot be completed. Ms. Maly, USAEC, agreed that the team will ask USATCES and DDESB if intrusive work in the shell burial grounds would be allowed. Mr. Smith, PTA, also indicated that the evacuation distance would likely involve evacuating numerous surrounding towns and would affect several major highways.

- Since the types of waste put in the shell burial grounds cannot be documented, Mr. Kealy, NJDEP, indicated that the sampling conducted under the IRP for this site may not be adequate. Mr. Pastorick, UXO Pro, agrees that since the groundwater data are 15 years old. Therefore, although groundwater sampling has been conducted, current data may be required since NJDEP considers this MRS a landfill. Therefore, while there may not be a current release, there could be a future release.

- As indicated by Mr. Pastorick, UXO Pro, the amount of fill placed over the waste in the craters is unknown. The WP indicates both 25 feet of fill is present and up to 25 feet of fill is present, which mean very different things. L. Pastor stated that the text in the WP will be checked and corrected as appropriate.

- Mr. Zalaskus, NJDEP, does not believe the WP approach for this MRS meets the criteria for an RI under the Technical Regulations since this site is a landfill.

- Mr. Marchesani, NJDEP, asked why 3D resistivity was not being considered for this MRS. Mr. Schwartz, USACE, indicated that 2D resistivity will provide adequate information or resolution to interpret burial depth. Seismic surveys will also be evaluated as part of the MRS characterization approach.

Green Pond Brook and DRMO Yard (PICA-005-R-01) – The following questions were raised regarding this MRS.

- Mr. Zalaskus, NJDEP, asked if the asphalt cover would be considered in the MEC HA. Ms. Szegedi indicated that all work conducted under the IRP would be considered. Mr. Smith, PTA, also explained that nothing found at the DRMO Yard so far has been live.

- Mr. Zalaskus, NJDEP, asked if geophysics was planned for the old burning grounds. Ms. Szegedi explained that since this site was investigated under the IRP, only the southern portion of the DRMO Yard needs to be characterized. During IRP work, there was a soil removal action for chemical contamination and geophysics was already conducted in the northern portion of the yard.

Former Operational Areas (PICA-006-R-01) – The following questions were raised regarding this MRS.

- Mr. Kealy, NJDEP, asked if IRP Site 20/24 is included in this MRS. Mr. Gabel, PTA, and Ms. Szegedi explained that it will be, but is not included in this version of the WP since Site 20/24 was formerly located in operational area. This portion of the Former Operational Areas will be included in the WP addendum (see previous discussion regarding PTA's revised operational range footprint). However, the burning ground previously located in this area is not part of the MRS since the burning ground is being closed out under RCRA.

- Mr. Roach, EPA, asked if the former burning grounds located within the Former Operational Areas was investigated for MEC when closed since the former burning grounds at the DRMO Yard were investigated for MEC. Mr. Smith, PTA, indicated that the burning grounds in the Former Operational Areas were not investigated for MEC prior to placing the cover. The only reason the DRMO Yard burning grounds were cleared prior to placing the cover was the high safety risk to workers due to the potential for ICM to be present.

- Mr. Pastorick, UXO Pro, asked if geophysical anomalies will be investigated at the sanitary landfill/dredge spoil piles and waste burial area. As indicated by Mr. Steigerwalt, EM31 transects will initially be traversed over the sites to determine extents and anomalous features extending beyond the existing soil caps. If anomalous features are present, additional delineation will be performed using an EM61. From the EM61 transect data, an anomaly list will be developed, reacquired and investigated.

- Ms. Dolce, TAPP, asked if anomalies in IRP Site 25/26 will be investigated. At this point Mr. Gabel, PTA, indicated the revised operational range footprints appear wrong on the map. Mr. Steigerwalt answered that if IRP Site 25/26 is located outside the operational range footprint it will be investigated. Refer to the previous operational range discussion.

- As explained by Ms. Szegedi, within the Former Operational Areas, gridded MC samples will not be placed on PTA's golf course at PTA's request. Ms. Dolce, TAPP, asked how many acres are included in the golf course and if excluding certain areas violates any VSP assumptions. Ms. Szegedi indicated that it is unknown how many acres are covered by the golf course; however, this area is not representative of the rest of the MRS since Mr. Smith, PTA, indicated the entire golf course has been disturbed and filled with potash. Ms. Szegedi explained that removing certain non-representative areas (*e.g.*, disturbed areas, building footprints) does not violate any VSP assumptions and the grid nodes (sample points) are still randomly distributed.

- During the MC approach discussion, Ms. Maly, USAEC, asked if samples collected from 6 to 12 inches bgs are considered surface. Ms. Szegedi indicated these samples are considered surface samples and the sampling depth was selected to be consistent with the IRP sampling.

<u>Lakes MRS (PICA-008-R-01)</u> – There are two lakes included in this MRS; Picatinny Lake and Lake Denmark. The MEC approach for each lake is different and is discussed separately below.

For Picatinny Lake, prior geophysical information is available. As part of the MEC approach for this lake approximately three miles of underwater DGM transects will be performed to fill data gaps identified in the existing geophysical data set. The existing data and data to be collected will be analyzed together to develop a composite dig list. It is estimated that approximately 25 anomaly locations will be selected for reacquisition and investigation including approximately 20% of the anomalies detected in the existing magnetic DGM data. Most of these targets are thought to be accessible from the lake shoreline. The following questions were raised regarding Picatinny Lake.

- Mr. Pastorick, UXO Pro, questioned if the prior geophysical data are sufficient to accurately locate anomalies selected for investigation. Mr. Steigerwalt indicated that all anomalies from the previous geophysical investigation will be re-mapped prior to reacquisition.

- Mr. Pastorick, UXO Pro asked how the underwater investigation will be conducted. Mr. Steigerwalt explained that an underwater EM will be used.

- Mr. Smith, PTA, noted that the bottom of Picatinny Lake is approximately three feet of mud, which would make the investigation difficult. Ms. Steigerwalt indicated that due to this, when possible, anomalies near the shoreline will be identified for investigation.

- Ms. Dolce, TAPP, asked how the number of targets (25) was selected and how the locations to be investigated will be selected. Mr. Steigerwalt explained that the number of targets was selected based on the existing locations of anomalies, as well as trends observed in the data. For groupings of anomalies, one or two anomalies within each group will be investigated to determine the nature of the anomalies.

- Mr. Pastorick, UXO Pro asked how the EM would be collected since this is the first use of underwater EM that Mr. Pastorick, UXO Pro has seen. According to Mr. Steigerwalt an EM sled will be towed on the bottom of the lake. PVC or some other method will be used to adjust the buoyancy of the sled.

- Mr. Kealy, NJDEP, asked if there was evidence of MEC use at Picnic Island. Mr. Smith explained that none of the existing historical documents indicate MEC use at this island. Mr. Steigerwalt added that anomalies identified around Picnic Island during the previous geophysical survey are assumed to be cultural debris.

- Mr. Smith, PTA, reminded the Weston team that both lakes are man-made; therefore, there are potential archaeological concerns.

- Mr. Kealy, NJDEP, asked if the entire lake is fenced. Mr. Smith responded that only sections of Picatinny Lake are fenced, with a portion of the lake accessible from off-post. However, all of the energetic storage areas are inaccessible. Mr. Gabel, PTA, pointed out that under a separate program a non-time critical EE/CA and Interim Land Use Control Plan are currently being developed to address interim actions at the MRSs on PTA.

For Lake Denmark, prior geophysical information is available. As part of the MEC approach underwater DGM transects will be performed across the northern portion of the lake to fill data gaps identified in the existing geophysical data set. Based on discussions during the MMRP training session, Mr. Steigerwalt proposed evaluating the size of a potential 60 mm target area using both range and deflection area and recalculating the VSP transect spacing. The existing data and the data to be collected will be analyzed together to develop a composite dig list. It is estimated that approximately five anomaly locations will be selected for reacquisition and investigation.

Land investigations will include approximately 10.9 miles of mag and dig transect surveys. A 100-foot by 100-foot grid will be placed at each of the three firing points to detect potential burial features. The data will be evaluated for large anomalous areas indicative of burial features. Such features, if detected, will be intrusively investigated. The following questions were raised regarding Lake Denmark.

- Mr. Smith, PTA pointed out that a white phosphorous mortar was recently found at Lake Denmark. Mr. Smith believes there's a report from 1934 that may discuss mortar delivery systems at PTA. So far, this report cannot be located.

- Mr. Gabel, PTA, indicated that the raw data from the geophysical investigation may be available. The Weston team will try to find these data.

- On the MEC characterization approach map, a large pink cone labeled firing range is present in the center of the lake. Mr. Smith, PTA, asked if that cone was large enough to represent the firing range for all the mortars used at this MRS. Mr. Steigerwalt indicated that this cone was developed based on the 4.2-inch mortar. He was unsure if all the other mortars would fall into this cone. The Weston team will confirm this.

- Mr. Smith, PTA, also asked if there would be a back end of the range, past the edge of the pink cone shown on the figure. Since this is unknown, Mr. Smith requested that three additional transects be added in Lake Denmark; one for each mortar type used in the lake (*e.g.*, 60-mm, 81-mm, and 4.2-inch) based on the average distance each mortar would fire (*e.g.*, potential impact areas).

- Based on information obtained during the geophysical discussion on July 27, 2011, Mr. Steigerwalt indicated that the transect spacing for Lake Denmark would be changed to be based on the Range Probable Error and Deflection Probable Error instead of the Hazardous Fragmentation Distance (HfD). Ms. Garrett, USACE, agreed with this approach.

- Mr. Kealy, NJDEP, asked about the location of the Lake Denmark picnic area. Mr. Smith, PTA, responded that the picnic area is accessible and is located near the 20-mm firing point.

<u>Lake Denmark Off-Post (PICA-012-R-01)</u> – The following questions were raised regarding this MRS.

- Ms. Szegedi explained that the majority of this MRS is the Radiation Technology, Inc. (RTI) Superfund Site. Currently, there is no financially solvent owner of RTI. To perform the RTI RI, the NJ court system was petitioned for access to the property. Mr. Gabel, PTA, asked if the MMRP RI could be conducted under the same court petition. We cannot; therefore, USACE is in the process of petitioning the NJ court system for MMRP RI access.

<u>Inactive Munitions Waste Pit (PICA-013-R-01)</u> – As discussed in the Operational Range Footprint section of these meeting minutes, the Inactive Munitions Waste Pit is not currently included in the WP; however, it will be optioned and included in a WP addendum. According to Mr. Smith, PTA, during an investigation for the source of a trichloroethylene (TCE) plume in the 600 Area, a burial pit was found approximately 12 to 14 feet bgs within the Inactive Munitions Waste Pit MRS. Items found in the pit include trucks, cars, inert fuzes, and granulated munitions; so far only one container of

granulated munitions has been found. Due to this, the trenching operations have stopped, but are expected to resume shortly. As part of the TCE source investigation the contractor is collecting soil samples from these trenches. The samples are being analyzed for volatile organic compounds with a subset of the samples analyzed for metals and explosives. The agencies want to ensure that the information and data currently being collected are used to refine the MEC and MC approach for this MRS once the MRS is optioned since it was not originally anticipated that a burial pit would be found (*e.g.*, vertical extent is important for burial pits). It should be noted that current trenching operations have exceeded the predicted bedrock depth (based on a well log). Information about the TCE plume investigation will be obtained from the contractor.

Inactive Munitions Waste Pit – Off-Post (PICA-014-R-01) – The following questions were raised regarding this MRS.

- Mr. Glaab, PAERAB asked if this MRS is located in Jefferson Township. According to Ms. Szegedi, it is, and it is owned by NJDEP, Fish & Wildlife Service (FWS). Mr. Smith, PTA, explained that PRA is in the process of trying to get a restrictive easement placed on this property.

- Since this property is owned by FWS, Mr. Kealy, NJDEP, asked if the MRS has a hiking trail. This property is very steeply sloped to the west and is nearly inaccessible. Mr. Smith, PTA, explained that FWS obtained the property since it was available, not due to the potential for recreational use.

- Due to the steep terrain, and since this MRS is only part of a safety fan, Mr. Pastorick, UXO Pro asked if there was any kick-out from the range, wouldn't the MEC have rolled down the hill. Ms. Szegedi agreed that it is likely that any kick-out would be at the bottom of the slope, which is why the MEC approach includes full coverage mag and dig surveys in accessible areas located primarily at the top of the ridge and the bottom of the slope.

300 Marsh Area – This is an IRP Site, not an MRS, and is located within the 1926 Explosion Radius MRS. The following questions were raised regarding this site.

- Ms. Maly, USAEC asked what the IRP site number is for the 300 Marsh Area. Ms. Flaherty, USACE, explained that originally this site was going to be characterized during the DRMO Yard investigation; however, it was ultimately decided that this site would be put into a separate contract. Therefore, the site does not have an IRP number.

- Mr. Pastorick, UXO Pro indicated that he does not remember seeing this site in the WP. As discussed by Ms. Szegedi, this site, which will be sampled in accordance with the existing site-wide IRP planning documents, has an existing Sampling and Analysis Plan (SAP) that was already reviewed and approved by the regulators. Therefore, it was not included in the WP.

However, since the analyses will be conducted by a different laboratory than is used by IRP, some of the laboratory-specific QAPP Worksheets needed to be filled out for this site. Therefore, it is included as Attachment 1 to the QAPP. It was requested that this site be pulled into the main body of the WP. Ms. Pastor responded that it would be included with the addendum so that it can be reviewed and incorporated up-front in the final WP.

Miscellaneous Items – Once the MRS-specific discussions were completed, the following additional items were discussed.

- A discussion was held regarding the exclusion zone required when anomalies are dug. As a conservative measure, the exclusion zone was based on the HFD for a 6-inch projectile. PTA indicated that if the exclusion zone can be reduced intrusive operations would be easier.

- Mr. Gabel asked why the regulator comments are due September 9th since this is 60 days after the submittal date, not 45 days. Ms. Pastor responded that the 60 day comment period was selected as more realistic, especially since EPA needs to submit a purchase order for their UXO contractor.

- Mr. Zalaskus indicated that further discussions on the Shell Burial Grounds will be required. NJDEP will be issuing a variance of the intent of an RI under the Tech Regs. Ms. Flaherty commented that the team needs NJDEP to provide the comment on the work plan. Mr. Pastorick commented that the comment in the work plan regarding the safety issues of intrusively investigating the Shell Burial Grounds needs to be supported by documentation from USATCES regarding the radius in which people would need to be evacuated. Mr. Pastorick also stated that if the cost of evacuation is too great, the Weston Team should put that in the work plan. The Weston Team agreed to discuss the safety issues with USATCES and DDESB.

- PTA indicated that a SHPO consultation will be needed for the WP. Ms. Pastor responded that the Weston team is currently working with Mr. Huggan regarding archaeological issues.

- Mr. Gabel indicated that the ESP cannot be completed until a decision is made by PTA regarding where and how demolitions activities can occur. There was no further discussion.

Action Items:

1. The Weston team will work with Mr. Huggan to obtain the correct operational range GIS layer.

2. The Weston Team will conduct a review of historical documents to determine if the amount of fill placed at the Shell Burial Grounds can be determined.

3. The Weston Team and USACE will discuss the intrusive investigation safety issues with USATCES and DDESB.

4. The Weston team will try to find the raw geophysical data for Lake Denmark.

5. The Weston Team will pull the 300 March Area discussion into main body of WP.

PROJECT: MMRP REMEDIAL INVESTIGATIONS PICATINNY ARSENAL REVIEW Comments DRAFT TPP 2Meeting Minutes, Picatinny Arsenal, July 2011 DATE: 30 August 2011			
ITEM	COMMENTOR	COMMENT	ACTION
1.	Lisa Voyce, PAERAB	On p. 3, last bullet – please delete the "there" after "However".	Concur. This has been corrected.
2.	Mike Glaab, PAERAB	On pg. 4, 1st bullet, last sentence, please delete Ms. in front of Mr.	Concur. This has been corrected.
3.	Mike Glaab, PAERAB	On pg. 7, 1st bullet, first sentence, change is to if.	Concur. This has been corrected.
4.	Mike Glaab, PAERAB	On pg. 7, 3rd bullet, second sentence, change including to included.	Concur. This has been corrected.
5.	Mike Glaab, PAERAB	On pg. 9, should the heading for the Inactive Munitions Waste Pit (PICA-013-R-01) be PICA-014-R-01, as per the handout?	The handout refers to the Inactive Munitions Waste Pit – Off-Post MRS, which is PICA-014-R-01. This section discusses the on-post portion of the inactive munitions waste pit, which is PICA-013-R-01.
6.	Mike Glaab, PAERAB	For the 3rd sentence under the 1st bullet of Miscellaneous Items, change is to if.	Concur. This has been corrected.
7.	Mike Glaab, PAERAB	For the 1st sentence under the 4th bullet of Miscellaneous Items, change need to needed.	Concur. This has been corrected.
8.	Jim Pastorick, UXO Pro	There was discussion of PICA-13, the Inactive Waste Pit. Gravel mines were unexpectedly found there. This unexpected finding caused the IRP investigation at this site to be stopped. There was discussion about whether the MR project could help restart the PICA-13 investigation since it is an MEC issue that caused it to be stopped. Ted said that it is possible that the PICA-13 investigation could be added to the MR RI list of sites to have the excavation there completed under the MR project. But, he isn't sure how this will be resolved. Lisa said they will research if it is possible to add this site to the MEC RI because of the MEC that was found. Whatever resolution is decided, there will need to be new DQOs developed for MEC at this site because of this change to the CSM. It is possible that the Shaw work plan for trenching may not be adequate due to this new hazard.	Please see the discussion in the meeting minutes, starting on pg. 10 under the Inactive Munitions Waste Pit (PICA-013-R-01). As discussed, this site is an MRS that was not previously optioned since it was unknown if the revised operational range footprints would encompass the entire site. Since the revised operational footprint only encompasses a portion of the site, the eligible area of MRS PICA-013-R-01 will be optioned under the current CENAB contract and included in the RI. Once the site is added to the contract, it will be added to the Work Plan in an addendum to be reviewed by the regulators. Therefore, this MRS is covered under both the IRP (for solvents) and MMRP and discussions have already been held between the MMRP and IRP contactors to ensure there is information sharing and coordination between the MMRP and IRP efforts.

ACTION CODES: A-ACCEPTED/CONCUR; D-ACTION DEFERRED; W-WITHDRAWN; N-NON-CONCUR; V-VE POTENTIAL/VEP ATTACHED

From:	Steigerwalt, Ryan
To:	Sharkey, Nicole
Subject:	FW: Email approving the : Minutes from OCT 19 meeting on MMRP RI for Picatinny (UNCLASSIFIED)
Date:	Monday, June 30, 2014 2:18:19 PM
Attachments:	Perchlorate Technical Memorandum_2Nov11.pdf Draft Meeting Minutes for Shell Burial Grounds Discussion October 19 201....pdf UXO Pro Memo on Draft Shell Burial Ground Meeting Minutes.docx

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-----Original Message-----
From: Gabel, Ted B CIV (US) [mailto:ted.b.gabel.civ@mail.mil]
Sent: Wednesday, June 11, 2014 9:56 AM
To: Steigerwalt, Ryan; Flaherty, Nancy E NAB; Maly, Mary E CIV USARMY IMCOM AEC (US)
Cc: Sharkey, Nicole
Subject: FW: Email approving the : Minutes from OCT 19 meeting on MMRP RI for Picatinny (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Ryan and others:

What I just sent to Greg.

Ted

-----Original Message-----
From: Gabel, Ted B CIV (US)
Sent: Wednesday, June 11, 2014 9:55 AM
To: 'Zalaskus, Greg'
Cc: Kealy, Jim; 'Pavelka, Anne'
Subject: Email approving the : Minutes from OCT 19 meeting on MMRP RI for Picatinny (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE
Greg:

Below is your November 9th 2011 email approving the minutes from the October 2011 meeting which are labeled draft unfortunately. I also am attaching for reference the 2 attachments that were in my email that you were responding to (see below).

This should address UXO Pro's (Jim Pastorik's) question regarding the status of the minutes. You could forward to him once you agree with that.

Ted Gabel
Project Manager for Environmental Restoration
US Army Garrison, Picatinny Arsenal
IMPI-PWE
B319
Picatinny Arsenal, NJ 07806-5000
Commercial: (973) 724-6748
Fax: (973)-724-5398
DSN: (312) 880-6748
"The Army's Home in Northern New Jersey"

From: Greg Zalaskus [mailto:Greg.Zalaskus@dep.state.nj.us]
Sent: Wednesday, November 09, 2011 1:26 PM
To: Gabel, Ted Mr CIV USA IMCOM
Cc: Jim Kealy; Joe Karpa; Joe Marchesani; Robert VanFossen; Roach.Bill@epamail.epa.gov
Subject: Re: Minutes from OCT 19 meeting on MMRP RI for Picatinny (UNCLASSIFIED)

Ted: Army responses are acceptable regarding sampling in the Shell Burial Area. We'll figure out the geophysics issue during our conf call at 3:00 today.

Gregory Zalaskus, Case Manager
Emergency Management Program
NJDEP
Greg.Zalaskus@dep.state.nj.us
609-984-2065 (direct)
609-633-2168 (main)

>>> "Gabel, Ted Mr CIV USA IMCOM" <ted.gabel@us.army.mil> 11/9/2011 8:15 AM >>>
Classification: UNCLASSIFIED
Caveats: NONE
Greg:

Since you (NJDEP) had the day off yesterday, you can give comments or approval to the minutes COB today.

Thanks

Ted Gabel
Project Manager
for Environmental Restoration
US Army Garrison, Picatinny Arsenal
INCOM-NERO-PIC-PWE
B319
Picatinny Arsenal, NJ 07806-5000
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"We are the Army's Home in Northern New Jersey"

From: Gabel, Ted Mr CIV USA IMCOM
Sent: Thursday, November 03, 2011 4:23 PM
To: Greg Zalaskus; 'Roach.Bill@epamail.epa.gov'
Cc: Jim Kealy; Joe.Karpa@dep.state.nj.us; Joe Marchesani
Subject: Minutes from OCT 19 meeting on MMRP RI for Picatinny (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE
Greg and Bill:

Attached are the Army-approved version of minutes of our MMRP-related portion of the meeting in Edison. I ask that you provide comment or approval by next Tuesday (8 NOV).

Also attached is a PDF of an memorandum justifying that perclorate sampling would not be necessary for the shell burial areas RI. If you have concerns or additional questions on this, please email or call. Please let us know if you disagree with the Summary of the Memorandum:

.. since groundwater samples collected near the Shell Burial Grounds have not
indicated the presence of propellant components and perchlorate does not appear to be
wide-spread in groundwater at PTA, and since perchlorate was not used in solid
propellants until after the Shell Burial Grounds were closed, groundwater sampling for
perchlorate analysis does not appear warranted for the Shell Burial Grounds.

Ted Gabel
Project Manager
for Environmental Restoration
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Classification: UNCLASSIFIED
Caveats: NONE
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Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Picatinny Arsenal
MMRP DISCUSSION AS PART OF EPA/DEP Team Meeting
October 19, 2011

Draft Meeting Minutes

Attendees:

Ted Gabel - Picatinny
Joe Karpa - NJDEP
Jim Kealy - NJDEP
Tim Llewellyn – ARCADIS
Mary Ellen Maly – USAEC
Joe Marchesani – NJDEP
Laura Pastor - WESTON
William Roach – USEPA
Emily Schiffmacher – USACE
JB Smith – Picatinny
Lisa Szegedi - ARCADIS
Greg Zalaskus – NJDEP

Agenda Items: Presentation/discussion of the MMRP Technical Approach for the Shell Burial Grounds MRS (PICA-010-R-01) and Discussion of WP RTCs.

Shell Burial Area

- In conjunction with the monitoring of groundwater under the IRP at the two former Shell Burial Area sites (Sites 5 and 6), a discussion was held regarding the MEC and MC investigation approach for the Shell Burial Grounds MRS under the MMRP. Weston gave a presentation that provided response/rationale to five specific NJDEP concerns on the technical approach for the Shell Burial Grounds that were documented from TPP2. A copy of the presentation is attached.
- Some of the discussion during the presentation included the details of the ER geophysical approach, what could be expected from the results, and why it will be sufficient to meet the RI objective. NJDEP and EPA agreed that this approach is sufficient at this time. A main concern expressed by J.Kealy for NJDEP is if sampling has been conducted that addresses all potential chemical concerns either under IRP or MMRP. The analytical program and results of previous sampling events of the site wells were discussed. While NJDEP agreed that groundwater sampling for the Shell Burial Grounds would be covered under the IRP, NJDEP expressed concern about the possible presence of perchlorate in groundwater since the *Phase III-1A Sites Task Order 17 Remedial Investigation Report, Area L,* April 2005, indicates that propellants and rockets fuels may have been disposed of in this MRS. During further discussion it was indicated that although perchlorate is not anticipated, proving the negative may be necessary. Weston agreed to provide information/rationale as to why perchlorate would not be a COC within the Shell Burial Grounds MRS.
- Discussion of any NJDEP and EPA concerns on the Draft Final WP RTCs resulted in acceptance of verbal acceptance of RTCs with agreement that clarification would be made on a few of the comments.
- NJDEP (G.Zalaskus) commented on the following RTCs:
    - Comment 7 - Visual CSMs are best; however, it is acceptable.
    - Comment 9 – Will there be notification to the landowners of the off-post MRSs about the potential for MEC on the property. L. Szegedi responded that letters were sent from Commander Skelton during the SI notifying the landowners. Weston will add a statement in the WP on this issue.

- Comment 14 – Please clarify the information of 20 ft of cover on the Shell Burial Grounds MRS (e.g., where did it come from). Weston will include the details of where the fill information came from.
- Comment 19 – Clarify what Bullet B response means. Weston will provide an email with a clarification of the comment.
- NJDEP accepted RTCs for 300 Marsh Area.

- EPA (B.Roach) discussed the additional comments to the RTCs that had been provided from the EPA's contractor.
  - Comment 17 discussed Explosive D. L.Szegedi responded that we had inadvertently responded that Explosive D was the same as 2,4,6-TNP (Picric Acid), when it is actually ammonium picrate (Ammonium 2,4,6-tritrophenolate). The ammonium salt would not be analyzed for; however, the analytical program already includes the picric acid. Weston will correct the chemical name within the WP.
  - Also discussed was the request to submit a modification to the WP for specific sampling locations. L.Szegedi explained that since the majority of the samples are biased based on field observations, it would not be practical to do this and would need to make modifications daily/weekly. Details on sampling locations, etc will be provided in the RI Report.
  - A discussion was also held regarding EPA's request that the FTL and data validators be specified in the QAPP. Since these personnel could change based on a variety of factors, it was agreed that the QAPP language regarding selecting these personnel from a pool of qualified personnel would remain.
  - As discussed, the QAO will sign the Work Plan.
-

Action Items:

Action	Responsible Individual(s)	Due Date
Provide NJDEP with technical memorandum that provides information/rationale for not conducting sampling for perchlorate.	Weston/Arcadis (L. Pastor, L.Szegedi)	Dates were not specified, but it was assumed that action items need to be complete and accepted prior to the Final WP.
Include RTC clarifications/revised text as noted in minutes.	Weston (L.Pastor)	
Clarify bullet item B in RTCs. Provide email to NJDEP with clarification.	Weston (L.Pastor)	

Technical Memorandum

To: NJDEP
Cc: USACE, USAEC, EPA, PTA
Date: November 2, 2011
Re: Basis for Not Sampling Perchlorate at Shell Burial Grounds

---

According to the April 2005 *Phase III-1A Sites Task Order 17 Remedial Investigation Report, Area L*, propellants and rockets fuels may have been disposed of in three craters, referred to as the Shell Burial Grounds, formed during an explosion of munitions storage magazines at Picatinny (PTA). It is unclear where the mention of rockets fuels originated since the March 1991 *Remedial Investigation Concept Plan for Picatinny Arsenal*, does not indicate the possible presence of rocket fuels. To determine if perchlorate could potentially be present at this MRS a review of groundwater data collected from PTA, as well as a review of information documenting perchlorate use in military applications, was conducted.

Note that for the purpose of this memorandum, the Shell Burial Grounds near Bldg. 3150 are referred to as the eastern grounds and the Shell Burial Grounds near Bldg. 3100 are referred to as the western grounds.

Groundwater Sampling Results

During the 1989 Site Investigation (SI) at numerous sites through PTA, seven groundwater samples were collected from monitoring wells near the Shell Burial Grounds. These samples were analyzed for a variety of parameters including components of solid propellants, metals, and explosives. Monitoring wells sampled near the eastern grounds included MW-3, which is upgradient, and DM5-1 and DM5-2, which are both downgradient. Monitoring wells sampled near the western grounds included DM6-1, which is upgradient, and DM6-2, DM6-3, and MW-5, which are downgradient. MW-3, DM5-1, and DM6-1 are screened in bedrock, DM6-2 and DM6-3 are screened at the bedrock interface, and DM5-2 and MW-5 are screened in the unconsolidated aquifer. Analysis of these groundwater samples did not indicate the presence of any components of solid propellants. The only explosive detected in a downgradient well, 2,4-dinitrotoluene, was found in one well at a concentration below the action level.

Under the installation restoration program (IRP), 418 groundwater samples have been collected across PTA and analyzed for perchlorate. Analyses of these samples have only

indicated the presence of perchlorate in six samples at concentrations above the U.S. Environmental Protection Agency's Tapwater Risk Screening Level of 26 micrograms per liter (µg/L). The six groundwater samples with concentrations greater than 26 µg/L were collected from monitoring wells associated with IRP Site PICA-111, which was a building used in propellant production. Perchlorate was known to be used at this site.

Perchlorate Historical Use in Solid Propellants/Rocket Fuels

The earliest known use of perchlorate in solid propellants occurred in 1942 when the Guggenheim Aeronautical Laboratory at the California Institute of Technology tried using perchlorate as the oxidizer in an experimental solid propellant they were developing. This propellant was to be used in rocket units to boost an overloaded aircraft's take-off capabilities. Since PTA does not have a runway, it is unlikely these systems would have been used and/or tested at PTA.

The earliest recorded use of perchlorate-containing propellants for smaller tactical missiles occurred sometime between the mid to late 1940s and the early 1950s, which is after the Navy stopped using the Shell Burial Grounds. Furthermore, prior to the 1940s, other uses of perchlorate appeared to be limited to non-military applications, such as use in matches, fireworks, and railroad signal flares.

Summary

Therefore, since groundwater samples collected near the Shell Burial Grounds have not indicated the presence of propellant components and perchlorate does not appear to be wide-spread in groundwater at PTA, and since perchlorate was not used in solid propellants until after the Shell Burial Grounds were closed, groundwater sampling for perchlorate analysis does not appear warranted for the Shell Burial Grounds.

References

Argonne National Laboratory. *Remedial Investigation Concept Plan for Picatinny Arsenal*. March 1991.

Bedard, A. Composite Solid Propellants. *Encyclopedia Astronautica*. (http://www.astronautix.com/articles/comlants.htm, last accessed October 31, 2011.

Dames & Moore. *Remedial Investigation of Picatinny Arsenal, New Jersey*. February 1989.

Interstate Technology & Regulatory Council. Perchlorate: Overview of Issues, Status, and Remedial Options. September 2005.

Shaw Environmental, Inc. *Phase III-1A Sites Remedial Investigation Report, Picatinny, New Jersey*. April 2005.

19.	3-107	3.15	The daily DGM checks to be performed are covered in several areas. Additionally the Measurement Quality Objectives (MQO) are scattered throughout section 3.15. Putting this information in one consolidated location is recommended along with who performs these checks and when/how often. Consolidating the requirements into one location and referencing to that one consolidated location for this information will limit confusion and the possibility of conflicting requirements. The following are examples of inconsistency regarding the text and tables. • Section 3.15.4: The work plan states, "To verify the instrument accuracy, the EM61-MK2 and the EM31-MK2 will be checked at the beginning and end of each workday following the QC criteria (i.e., equipment warm-up, sensor nulling, static, static spike, and cable shake). The following QC Test will be conducted at the beginning and end of each day." This text does not match Table 3-20. Additionally no dynamic test is identified in either location. • Table 3-20: The table identifies that repeat data is required to be collected for grids only, this requirement needs to be accomplished for a portion of the transects also. This will ensure and demonstrate the repeatability and accuracy of the data along transects. • Table 3-20: The table does not identify the dynamic test that is to be performed in the IVS at the beginning and end of each day to check instrument functionality. • Section 3.15.4.1: The paragraph does not identify the dynamic test that is to be performed in the IVS at the beginning and end of each day to check instrument functionality and does not match Table 3-20.	Response to Bullet 1. Section 3.15.4 will be revised to, "To verify the instrument accuracy, the EM61-MK2 and the EM31-MK2 will be check at the beginning and end of each workday based the tests and frequencies identified in Table 3-20." Dynamic data will be collected over the instrument verification strip (IVS) daily. The IVS test will be added to Table 3-20. Response to Bullet 2. Due to terrain and tree canopy at the MRSs, positional accuracy of the DGM transect data will not be sufficient to reacquire and intrusively investigate individual anomalies. If an anomalous area is identified following the DGM transect surveys, additional work will be performed in that location using a positional method that has the accuracy necessary to reacquire individual anomalies. Similar to grid based surveys, the sensors used for the DGM transects will be evaluated using the test methods listed in Table 3-20. **REVISED RESPONSE TO BULLET 2** **Digital geophysical mapping (DGM) will be completed in both a grid and transect form. Grids will be mapped using an EM61-MK2. Transects will be completed using an EM61-MK2 or EM31-MK2. Anomalies detected within grids will be reacquired and intrusively investigated. This requires the DGM data to be positioned with a high degree of accuracy. To achieve this accuracy, survey grade RTK-GPS or line and fiducial data positioning will be utilized. Similar positioning will be required during EM61-MK2 transect surveys planned for the Sanitary Landfill, Dredge Spoil Piles, and Waste Burial Area located in the southern area of the Former Operational Range Areas MRS. Other DGM transect surveys planned with the EM61-MK2 and EM31-MK2 do not require this level of positioning as the detected anomalies will not be reacquired and intrusively investigated. Data collected along these transects will be positioned using a GPS system that may achieve sub-meter accuracy when obstructions, such as tree canopy, do not interfere with communication signals.** The constructed instrument verification strip (IVS) will be used to verify the repeatability (both positional accuracy and response measurements) for the EM61-MK2 sensor that is being used in grids or transects. Positional accuracy and response repeatability will be monitored against performance requirements stipulated in Table 3-20

				and Table 3-21. Acceptance criteria for EM61-MK2 transects is not listed in Table 3-20 or Table 3-21. The anticipated accuracy of EM61-MK2 transects that do not require anomaly reacquisition is ±10 ft. These measurement criteria will be listed in Table 3-20 and Table 3-21. <u>Response to Bullet 3</u>. Table 3-20 will include the IVS testing to be performed at the beginning and end of each day. <u>Response to Bullet 4</u>. Section 3.15.4.1 will note the IVS testing at the beginning and end of each day. This section will be revised so that the test names are consistent with Table 3-20.

APPENDIX B

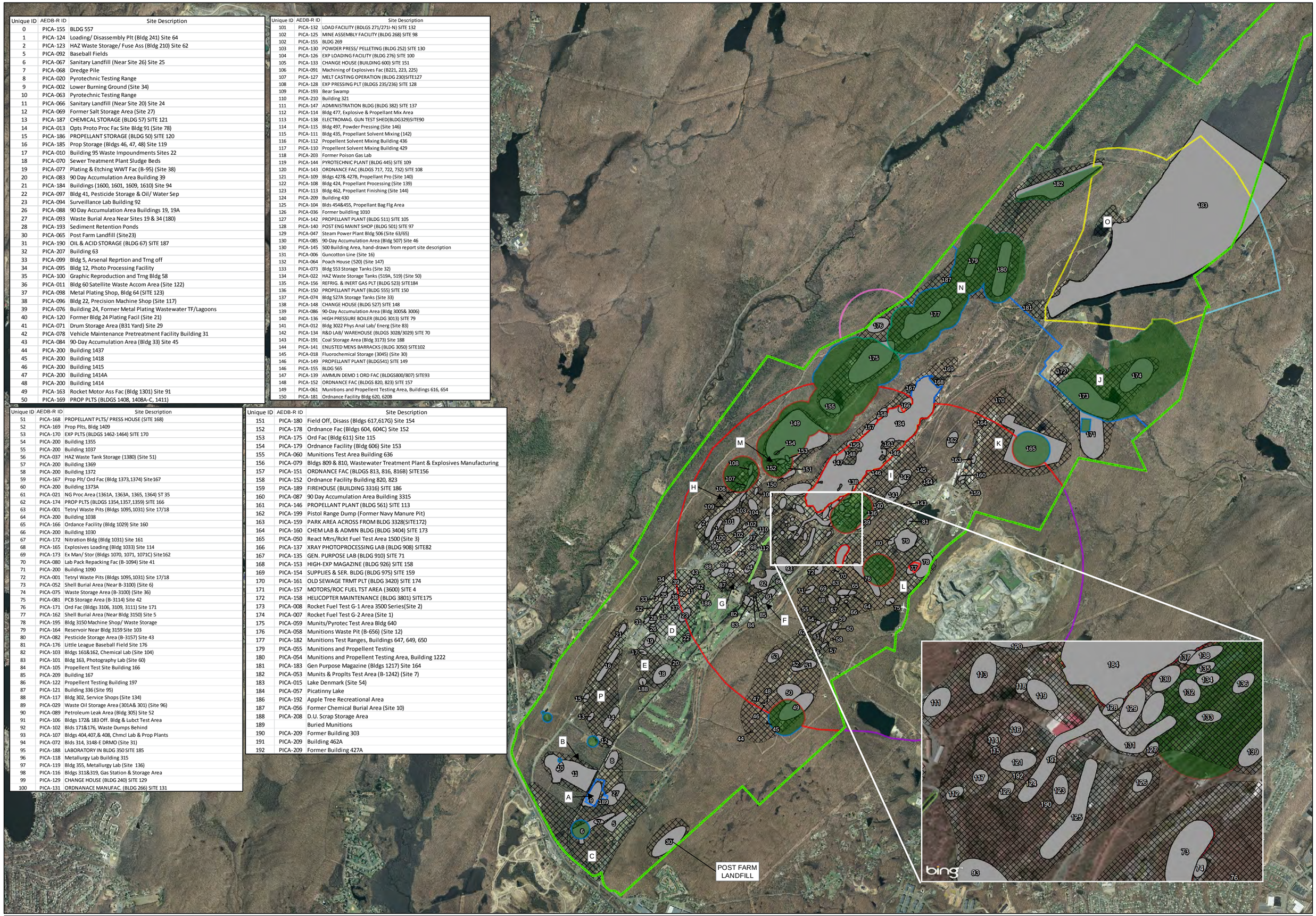
IRP SITE LOCATIONS AND UXO FINDS MAPS

Unique ID	AEDB-R ID	Site Description
0	PICA-155	BLDG 557
1	PICA-124	Loading/ Disassembly Plt (Bldg 241) Site 64
2	PICA-123	HAZ Waste Storage/ Fuse Ass (Bldg 210) Site 62
5	PICA-092	Baseball Fields
6	PICA-067	Sanitary Landfill (Near Site 26) Site 25
7	PICA-068	Dredge Pile
8	PICA-020	Pyrotechnic Testing Range
9	PICA-002	Lower Burning Ground (Site 34)
10	PICA-063	Pyrotechnic Testing Range
11	PICA-066	Sanitary Landfill (Near Site 20) Site 24
12	PICA-069	Former Salt Storage Area (Site 27)
13	PICA-187	CHEMICAL STORAGE (BLDG 57) SITE 121
14	PICA-013	Opts Proto Proc Fac Site Bldg 91 (Site 78)
15	PICA-186	PROPELLANT STORAGE (BLDG 50) SITE 120
16	PICA-185	Prop Storage (Bldgs 46, 47, 48) Site 119
17	PICA-010	Building 95 Waste Impoundments Sites 22
18	PICA-070	Sewer Treatment Plant Sludge Beds
19	PICA-077	Plating & Etching WWT Fac (B-95) (Site 38)
20	PICA-083	90 Day Accumulation Area Building 39
21	PICA-184	Buildings (1600, 1601, 1609, 1610) Site 94
22	PICA-097	Bldg 41, Pesticide Storage & Oil/ Water Sep
23	PICA-094	Surveillance Lab Building 92
26	PICA-088	90 Day Accumulation Area Buildings 19, 19A
27	PICA-093	Waste Burial Area Near Sites 19 & 34 (180)
28	PICA-193	Sediment Retention Ponds
30	PICA-065	Post Farm Landfill (Site23)
31	PICA-190	OIL & ACID STORAGE (BLDG 67) SITE 187
32	PICA-207	Building 63
33	PICA-099	Bldg 5, Arsenal Reprtion and Trng off
34	PICA-095	Bldg 12, Photo Processing Facility
35	PICA-100	Graphic Reproduction and Trng Bldg 58
36	PICA-011	Bldg 60 Satellite Waste Accom Area (Site 122)
37	PICA-098	Metal Plating Shop, Bldg 64 (SITE 123)
38	PICA-096	Bldg 22, Precision Machine Shop (Site 117)
39	PICA-076	Building 24, Former Metal Plating Wastewater TF/Lagoons
40	PICA-120	Former Bldg 24 Plating Facil (Site 21)
41	PICA-071	Drum Storage Area (B31 Yard) Site 29
42	PICA-078	Vehicle Maintenance Pretreatment Facility Building 31
43	PICA-084	90-Day Accumulation Area (Bldg 33) Site 45
44	PICA-200	Building 1437
45	PICA-200	Building 1418
46	PICA-200	Building 1415
47	PICA-200	Building 1414A
48	PICA-200	Building 1414
49	PICA-163	Rocket Motor Ass Fac (Bldg 1301) Site 91
50	PICA-169	PROP PLTS (BLDGS 1408, 1408A-C, 1411)

Unique ID	AEDB-R ID	Site Description
101	PICA-132	LOAD FACILITY (BDLGS 271/271I-N) SITE 132
102	PICA-125	MINE ASSEMBLY FACILITY (BLDG 268) SITE 98
102	PICA-155	BLDG 269
103	PICA-130	POWDER PRESS/ PELLETING (BLDG 252) SITE 130
104	PICA-126	EXP LOADING FACILITY (BLDG 276) SITE 100
105	PICA-133	CHANGE HOUSE (BUILDING 600) SITE 151
106	PICA-091	Machining of Explosives Fac (B221, 223, 225)
107	PICA-127	MELT CASTING OPERATION (BLDG 230)SITE127
108	PICA-128	EXP PRESSING PLT (BLDGS 235/236) SITE 128
109	PICA-193	Bear Swamp
110	PICA-210	Building 321
111	PICA-147	ADMINISTRATION BLDG (BLDG 382) SITE 137
112	PICA-114	Bldg 477, Explosive & Propellant Mix Area
113	PICA-138	ELECTROMAG. GUN TEST SHED(BLDG329)SITE90
114	PICA-115	Bldg 497, Powder Pressing (Site 146)
115	PICA-111	Bldg 435, Propellant Solvent Mixing (142)
116	PICA-112	Propellent Solvent Mixing Building 436
117	PICA-110	Propellent Solvent Mixing Building 429
118	PICA-203	Former Poison Gas Lab
119	PICA-144	PYROTECHNIC PLANT (BLDG 445) SITE 109
120	PICA-143	ORDNANCE FAC (BLDGS 717, 722, 732) SITE 108
121	PICA-109	Bldgs 427& 427B, Propellant Pro (Site 140)
122	PICA-108	Bldg 424, Propellant Processing (Site 139)
123	PICA-113	Bldg 462, Propellant Finishing (Site 144)
124	PICA-209	Building 430
125	PICA-104	Blds 454&455, Propellant Bag Flg Area
126	PICA-036	Former building 1010
127	PICA-142	PROPELLANT PLANT (BLDG 511) SITE 105
128	PICA-140	POST ENG MAINT SHOP (BLDG 501) SITE 97
129	PICA-047	Steam Power Plant Bldg 506 (Site 63/65)
130	PICA-085	90-Day Accumulation Area (Bldg 507) Site 46
130	PICA-145	500 Building Area, hand-drawn from report site description
131	PICA-006	Guncotton Line (Site 16)
132	PICA-064	Poach House (520) (Site 147)
133	PICA-073	Bldg 553 Storage Tanks (Site 32)
134	PICA-022	HAZ Waste Storage Tanks (519A, 519) (Site 50)
135	PICA-156	REFRIG. & INERT GAS PLT (BLDG 523) SITE184
136	PICA-150	PROPELLANT PLANT (BLDG 555) SITE 150
137	PICA-074	Bldg 527A Storage Tanks (Site 33)
138	PICA-148	CHANGE HOUSE (BLDG 527) SITE 148
139	PICA-086	90-Day Accumulation Area (Bldg 3005& 3006)
140	PICA-136	HIGH PRESSURE BOILER (BLDG 3013) SITE 79
141	PICA-012	Bldg 3022 Phys Anal Lab/ Energ (Site 83)
142	PICA-134	R&D LAB/ WAREHOUSE (BLDGS 3028/3029) SITE 70
143	PICA-191	Coal Storage Area (Bldg 3173) Site 188
144	PICA-141	ENLISTED MENS BARRACKS (BLDG 3050) SITE102
145	PICA-018	Fluorochemical Storage (3045) (Site 30)
146	PICA-149	PROPELLANT PLANT (BLDG541) SITE 149
146	PICA-155	BLDG 565
147	PICA-139	AMMUN DEMO 1 ORD FAC (BLDGS800/807) SITE93
148	PICA-152	ORDNANCE FAC (BLDGS 820, 823) SITE 157
149	PICA-061	Munitions and Propellent Testing Area, Buildings 616, 654
150	PICA-181	Ordnance Facility Bldg 620, 620B

Unique ID	AEDB-R ID	Site Description
51	PICA-168	PROPELLANT PLTS/ PRESS HOUSE (SITE 168)
52	PICA-169	Prop Plts, Bldg 1409
53	PICA-170	EXP PLTS (BLDGS 1462-1464) SITE 170
54	PICA-200	Building 1355
55	PICA-200	Building 1037
56	PICA-037	HAZ Waste Tank Storage (1380) (Site 51)
57	PICA-200	Building 1369
58	PICA-200	Building 1372
59	PICA-167	Prop Plt/ Ord Fac (Bldg 1373,1374) Site167
60	PICA-200	Building 1373A
61	PICA-021	NG Proc Area (1361A, 1363A, 1365, 1364) ST 35
62	PICA-174	PROP PLTS (BLDGS 1354,1357,1359) SITE 166
63	PICA-001	Tetryl Waste Pits (Bldgs 1095,1031) Site 17/18
64	PICA-200	Building 1038
65	PICA-166	Ordance Facility (Bldg 1029) Site 160
66	PICA-200	Building 1030
67	PICA-172	Nitration Bldg (Bldg 1031) Site 161
68	PICA-165	Explosives Loading (Bldg 1033) Site 114
69	PICA-173	Ex Man/ Stor (Bldgs 1070, 1071, 1071C) Site162
70	PICA-080	Lab Pack Repacking Fac (B-1094) Site 41
71	PICA-200	Building 1090
72	PICA-001	Tetryl Waste Pits (Bldgs 1095,1031) Site 17/18
73	PICA-052	Shell Burial Area (Near B-3100) (Site 6)
74	PICA-075	Waste Storage Area (B-3100) (Site 36)
75	PICA-081	PCB Storage Area (B-3114) Site 42
76	PICA-171	Ord Fac (Bldgs 3106, 3109, 3111) Site 171
77	PICA-162	Shell Burial Area (Near Bldg 3150) Site 5
78	PICA-195	Bldg 3150 Machine Shop/ Waste Storage
79	PICA-164	Reservoir Near Bldg 3159 Site 103
80	PICA-082	Pesticide Storage Area (B-3157) Site 43
81	PICA-176	Little League Baseball Field Site 176
82	PICA-103	Bldgs 161&162, Chemical Lab (Site 104)
83	PICA-101	Bldg 163, Photography Lab (Site 60)
84	PICA-105	Propellent Test Site Building 166
85	PICA-209	Building 167
86	PICA-122	Propellent Testing Building 197
87	PICA-121	Building 336 (Site 95)
88	PICA-117	Bldg 302, Service Shops (Site 134)
89	PICA-029	Waste Oil Storage Area (301A& 301) (Site 96)
90	PICA-089	Petroleum Leak Area (Bldg 305) Site 52
91	PICA-106	Bldgs 172& 183 Off. Bldg & Lubct Test Area
92	PICA-102	Blds 171&176, Waste Dumps Behind
93	PICA-107	Bldgs 404,407,& 408, Chmcl Lab & Prop Plants
94	PICA-072	Blds 314, 3148-E DRMO (Site 31)
95	PICA-188	LABORATORY IN BLDG 350 SITE 185
96	PICA-118	Metallurgy Lab Building 315
97	PICA-119	Bldg 355, Metallurgy Lab (Site 136)
98	PICA-116	Bldgs 311&319, Gas Station & Storage Area
99	PICA-129	CHANGE HOUSE (BLDG 240) SITE 129
100	PICA-131	ORDNANACE MANUFAC. (BLDG 266) SITE 131

Unique ID	AEDB-R ID	Site Description
151	PICA-180	Field Off, Disass (Bldgs 617,617G) Site 154
152	PICA-178	Ordnance Fac (Bldgs 604, 604C) Site 152
153	PICA-175	Ord Fac (Bldg 611) Site 115
154	PICA-179	Ordnance Facility (Bldg 606) Site 153
155	PICA-060	Munitions Test Area Building 636
156	PICA-079	Bldgs 809 & 810, Wastewater Treatment Plant & Explosives Manufacturing
157	PICA-151	ORDNANCE FAC (BLDGS 813, 816, 816B) SITE156
158	PICA-152	Ordnance Facility Building 820, 823
159	PICA-189	FIREHOUSE (BUILDING 3316) SITE 186
160	PICA-087	90 Day Accumulation Area Building 3315
161	PICA-146	PROPELLANT PLANT (BLDG 561) SITE 113
162	PICA-199	Pistol Range Dump (Former Navy Manure Pit)
163	PICA-159	PARK AREA ACROSS FROM BLDG 3328(SITE172)
164	PICA-160	CHEM LAB & ADMIN BLDG (BLDG 3404) SITE 173
165	PICA-050	React Mtrs/Rckt Fuel Test Area 1500 (Site 3)
166	PICA-137	XRAY PHOTOPROCESSING LAB (BLDG 908) SITE82
167	PICA-135	GEN. PURPOSE LAB (BLDG 910) SITE 71
168	PICA-153	HIGH-EXP MAGAZINE (BLDG 926) SITE 158
169	PICA-154	SUPPLIES & SER. BLDG (BLDG 975) SITE 159
170	PICA-161	OLD SEWAGE TRMT PLT (BLDG 3420) SITE 174
171	PICA-157	MOTORS/ROC FUEL TST AREA (3600) SITE 4
172	PICA-158	HELICOPTER MAINTENANCE (BLDG 3801) SITE175
173	PICA-008	Rocket Fuel Test G-1 Area 3500 Series(Site 2)
174	PICA-007	Rocket Fuel Test G-2 Area (Site 1)
175	PICA-059	Munits/Pyrotec Test Area Bldg 640
176	PICA-058	Munitions Waste Pit (B-656) (Site 12)
177	PICA-182	Munitions Test Ranges, Buildings 647, 649, 650
179	PICA-055	Munitions and Propellent Testing
180	PICA-054	Munitions and Propellent Testing Area, Building 1222
181	PICA-183	Gen Purpose Magazine (Bldgs 1217) Site 164
182	PICA-053	Munits & Proplts Test Area (B-1242) (Site 7)
183	PICA-015	Lake Denmark (Site 54)
184	PICA-057	Picatinny Lake
186	PICA-192	Apple Tree Recreational Area
187	PICA-056	Former Chemical Burial Area (Site 10)
188	PICA-208	D.U. Scrap Storage Area
189		Buried Munitions
190	PICA-209	Former Building 303
191	PICA-209	Building 462A
192	PICA-209	Former Building 427A



Legend

- IRP Sites
- IRP Areas
- Installation Boundary
- Operational Range Areas

Munitions Response Sites
- 1926 Explosion Radius
- 1926 Explosion Radius - Off-Post
- Former Operational Areas
- Green Pond
- Inactive Munitions Waste Pit
- Inactive Munitions Waste Pit - Off-Post
- Lake Denmark - Off-Post
- Lakes
- Shell Burial Grounds

NOTES:
Base Imagery: NJ 2007 Natural Color Imagery
Data Source: Army GIS Layers (August 2011)

Coordinate System: UTM Zone 18N
Datum: WGS84. Units: Feet

N

0 2,000 4,000 Feet

0 600 1,200 1,800 Meters

Picatinny Arsenal
Morris County,
New Jersey

WESTON SOLUTIONS

Created By: CLR
Verified By: XXX
Approved By: XXX

Figure A-1
IRP Sites

10/16/2013

Contract # W912DR-09-D-0006
DO 0002

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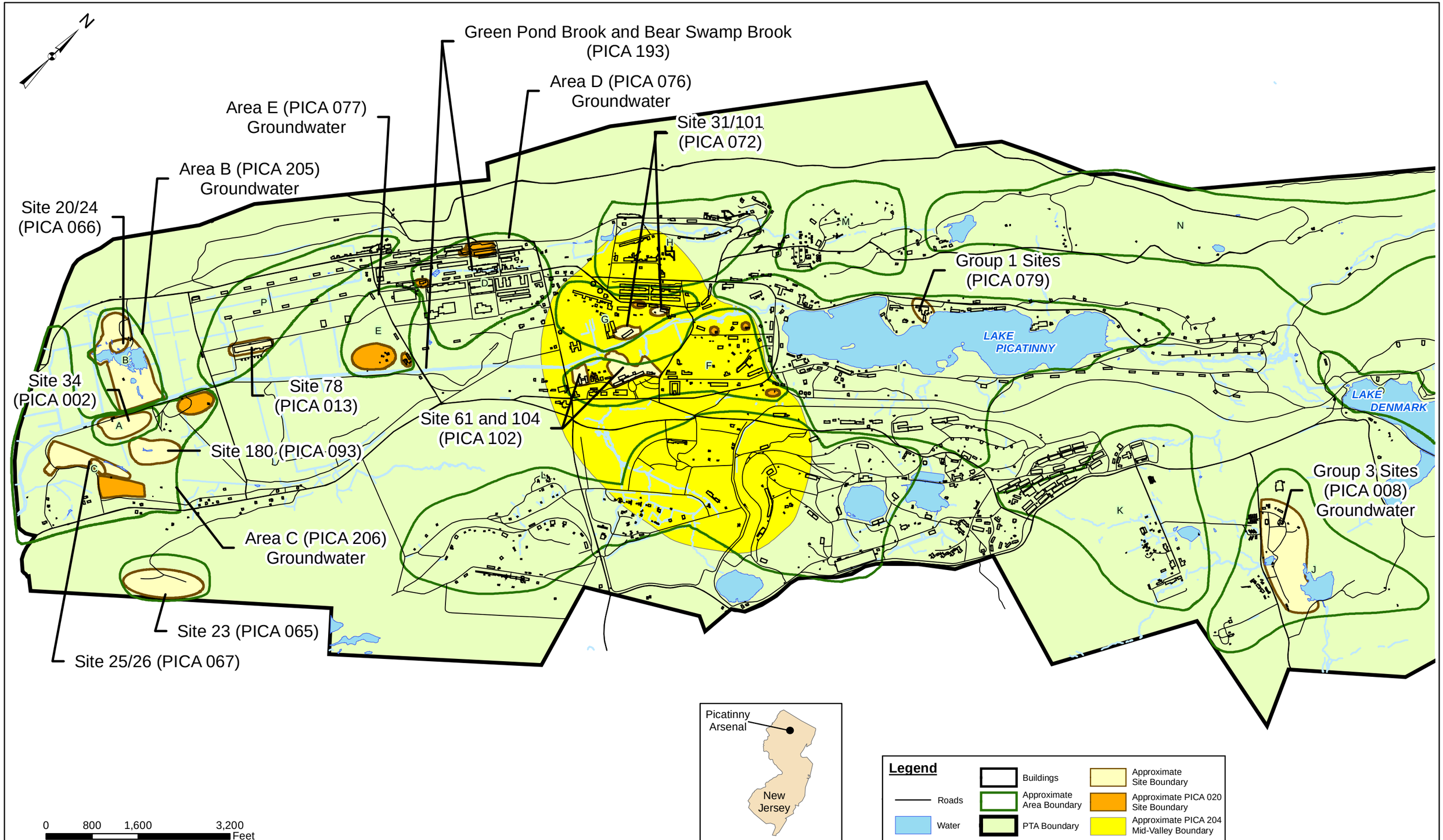
File: Y:\Picatinny\MXD\RI_Sept2012\Alt\RTC\IRP_Site.mxd, 10/16/2013 10:57:41 AM, ricksc



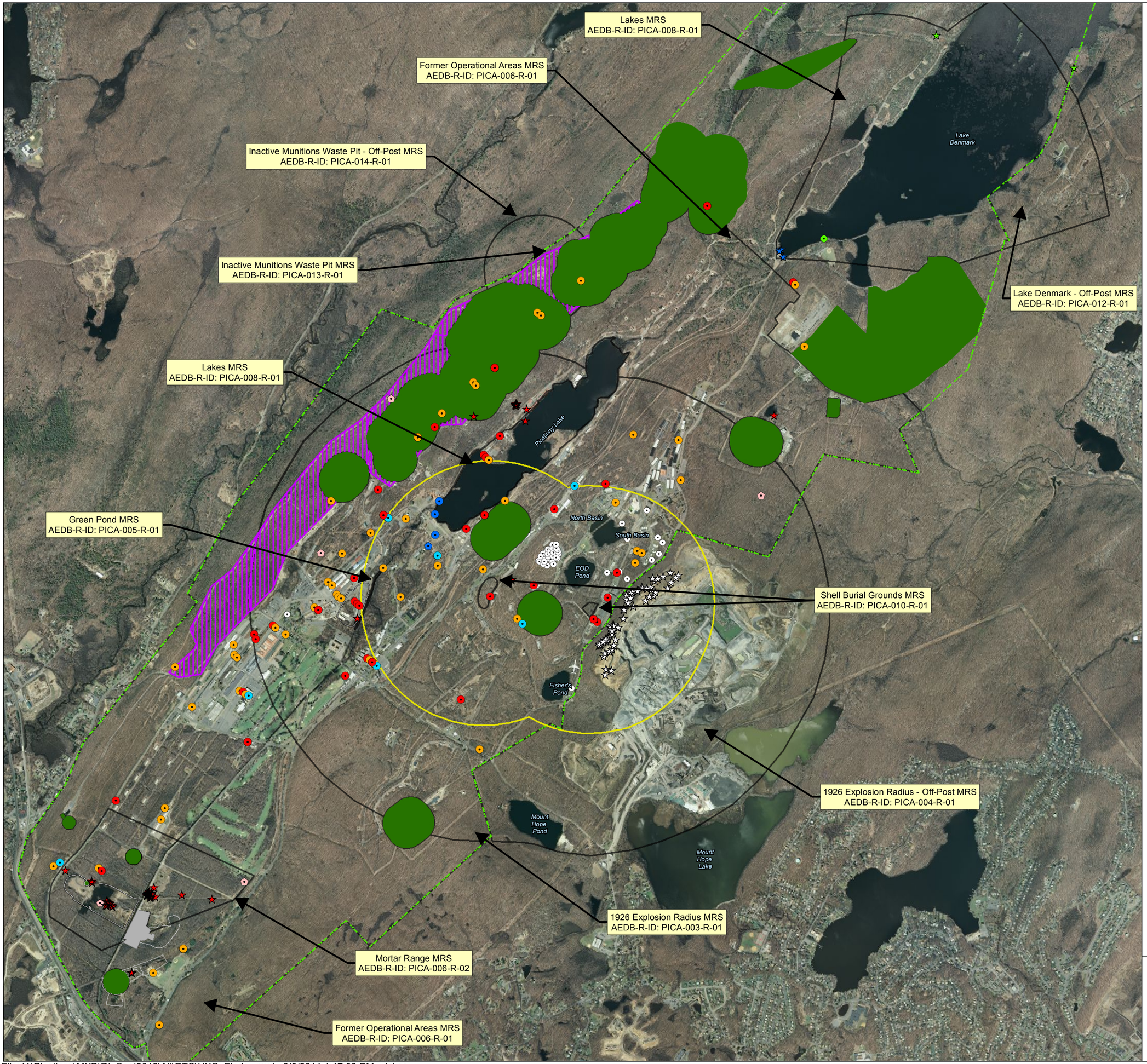
ARCADIS

ARCADIS - Edison, NJ
101 Fieldcrest Avenue, Suite 5E , Edison, NJ 08817
Phone: (732) 225-5061 Fax: (732) 225-5067

US Army Garrison
Picatinny Arsenal, NJ

REMEDIAL LOCATIONS
PICATINNY ARSENAL, DOVER, NEW JERSEY

PROJECT MANAGER T. LLEWELLYN	DEPARTMENT MANAGER M. MOHIUDDIN
DRAWN M. GRESS	CHECKED T. CRONE
	DRAWING NUMBER 1-1



Legend

- Installation Boundary
- Operational Range Areas
- Military Response Sites
- Code 300 Area
- 0.5 Mile Radius
- Ineligible Area - Burning Ground
- MRS Areas of Interest

UXO Finds Map Items (1986 - 1998)

- Munitions Debris
- MEC*
- Small Arms

RI MEC Finds (April - Nov 2012)

- DMM
- UXO

EOD Responses

- Mortars found during PSG&E work (Dec 2012 - Jan 2013)
- Mortar recovered during USACE Site Walk (2010)

EE/CA and TCRA MEC Finds

- EE/CA MEC Finds (2008)
- TCRA MEC Finds (Dec 2006 - Mar 2007)

Construction Support Items (2009-2011)

- UXO
- Munitions Debris
- DMM

*Unknown if items were UXO or DMM

Base Imagery: NJ 2007 National Color Imagery

Coordinate System: UTM Zone 18N
Datum: WGS84
Units: Feet

N W E S

1,450 725 0 1,450
Feet

MEC Items Recovered from Picatinny Arsenal (1986 to January 2013)

Picatinny Arsenal
Morris County, New Jersey

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Appendix B Recovered Munitions Items

Id	Incident	Location	Revised Ordnance	Item Category	Source	UXO_Source	x	y
0	32568	Pyro Range???	81 mm, empty	MD	Inventory from mid to late 1930s and after	Non-1926 Source	535013.35894400000	4530753.56043000000
0	13-88	Pyro Range???	8 inch, illumination	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	535035.32964600000	4530734.80994000000
0	14-90	Truck Gate PICA	grenade, inert	MD	Inventory from mid to late 1930s and after	Non-1926 Source	534702.79992100000	4530767.19825000000
0	09-97	Scale House	small arms	SAA	Inventory from mid to late 1930s and after	Non-1926 Source	534746.75115900000	4530793.07548000000
0	24-88	Ballfield #1	175 mm, empty	MD	Inventory from mid to late 1930s and after	Non-1926 Source	535390.39180300000	4530032.83236000000
0	04-92	Picatinny Farm???	5 inch, scrap	MD	Inventory from mid to late 1930s and after	Non-1926 Source	535596.95475000000	4530197.95891000000
0	04-92	Picatinny Farm???	81 mm, empty	MD	Inventory from mid to late 1930s and after	Non-1926 Source	535596.95475000000	4530197.95891000000
0	04-92	Picatinny Farm???	3 x grenade, empty	MD	Inventory from mid to late 1930s and after	Non-1926 Source	535596.95475000000	4530197.95891000000
0	04-92	Picatinny Farm???	7 x fuze, scrap	MD	Inventory from mid to late 1930s and after	Non-1926 Source	535596.95475000000	4530197.95891000000
0	04-92	Picatinny Farm???	105 mm, cartridge	MD	Inventory from mid to late 1930s and after	Non-1926 Source	535596.95475000000	4530197.95891000000
0	04-92	Picatinny Farm???	90 mm, empty	MD	Inventory from mid to late 1930s and after	Non-1926 Source	535596.95475000000	4530197.95891000000
0	04-92	Picatinny Farm???	7 x misc., empty	MD	Inventory from mid to late 1930s and after	Non-1926 Source	535596.95475000000	4530197.95891000000
0	17-89	Bldg 91	29 x 3.5 inch, practice	MD	Inventory from mid to late 1930s and after	Non-1926 Source	535469.50288300000	4531168.12134000000
0	17-89	Bldg 91	3 x 105 mm, empty	MD	Inventory from mid to late 1930s and after	Non-1926 Source	535469.50288300000	4531168.12134000000
0	17-89	Bldg 91	90 mm, HE, empty	MD	Inventory from mid to late 1930s and after	Non-1926 Source	535469.50288300000	4531168.12134000000
0	17-89	Bldg 91	57 mm, HE, empty	MD	Inventory from mid to late 1930s and after	Non-1926 Source	535469.50288300000	4531168.12134000000
0	20-89	Bldg 91	3.5 inch, practice	MD	Inventory from mid to late 1930s and after	Non-1926 Source	535443.23403900000	4531089.72807000000
0	11-90	Bldg 50 & 51	37 mm, cartridge	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	535132.67416300000	4531219.50385000000
0	14-98	Bldg 7	66 mm, empty	MD	Inventory from mid to late 1930s and after	Non-1926 Source	535657.26838000000	4531864.68384000000
0	01-96	Bldg 39	Fuze, inert	MD	Inventory from mid to late 1930s and after	Non-1926 Source	536040.40816700000	4531623.83650000000
0	01-96	Bldg 39	81 mm, illumination	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	536040.40816700000	4531623.83650000000
0	12-94	Bldg 1	grenade, practice	MD	Inventory from mid to late 1930s and after	Non-1926 Source	535983.66001500000	4531975.75880000000
0	05-93	Bldg 1	Pyrotechnic simulator	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	536009.01498700000	4531968.53419000000
0	03-94	Bldg 1	105 mm, blank	MD	Inventory from mid to late 1930s and after	Non-1926 Source	536026.29543700000	4531951.10332000000
0	22-88	Bldg 1	19 x 105 mm, blank, expanded	MD	Inventory from mid to late 1930s and after	Non-1926 Source	536047.38267400000	4531942.30248000000
0	22-88	Bldg 1	123 x small arms	SAA	Inventory from mid to late 1930s and after	Non-1926 Source	536047.38267400000	4531942.30248000000
0	06-86	Bldg 33	2 x 57 mm, cartridges	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	536216.52226900000	4532426.38110000000
0	28-89	Bldg 33	3 x 155 mm, scrap	MD	Possibly from 1926 detonation	1926 Source	536231.66738800000	4532411.27534000000
0	28-89	Bldg 33	Fuze, M51, inert	MD	Possibly from 1926 detonation	1926 Source	536231.66738800000	4532411.27534000000
0	28-89	Bldg 33	4 x fuze, M557, inert	MD	Possibly from 1926 detonation	1926 Source	536231.66738800000	4532411.27534000000
0	28-89	Bldg 33	Fuze, M577, inert	MD	Possibly from 1926 detonation	1926 Source	536231.66738800000	4532411.27534000000
0	23-88	Bldg 127	155 mm, empty	MD	Possibly from 1926 detonation	1926 Source	536303.27730000000	4532365.77734000000
0	15-98	Bldg 24	2 x bottles of picric acid	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	536085.28894000000	4532366.23169000000
0	03-88	Bldg 24	Bottle of picric acid	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	536095.89945500000	4532331.70046000000
0	09-89	Bldg 121, Pool	60 mm, HE	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	536713.50231200000	4532078.54727000000
0	02-97	Bldg 1363	14 x HE, nitro	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	537510.42856700000	4531916.41169000000
0	01-98	Bldg 302	36 x HE, scrap	MD	Inventory from mid to late 1930s and after	Non-1926 Source	536500.08079700000	4532551.65058000000
0	10-92	Bldg 301	155 mm, HE	MEC	Possibly from 1926 detonation	1926 Source	536526.45547800000	4532533.26367000000
0	13-90	Bldg 314	1 lb, HE	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	536778.93569700000	4532591.42322000000
0	11-86	Bldg 314	3 x BLU 42	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	536795.25129400000	4532573.99880000000
0	11-86	Bldg 314	7 x BLU 26	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	536795.25129400000	4532573.99880000000
0	11-86	Bldg 314	40 mm, projectile	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	536795.25129400000	4532573.99880000000
0	08-97	Bldg 314	2 x grenades, M42	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	536810.38859800000	4532562.20238000000
0	08-93	Bldg 173	105 mm, cartridge	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	536864.02333000000	4532199.57481000000
0	05-88	Bldg 173	105 mm, inert	MD	Inventory from mid to late 1930s and after	Non-1926 Source	536883.21155100000	4532191.30985000000

Note: this table is a listing of items found from 1986 through 1998, based on the Explosive Ordnance Disposal (EOD) incident reports. The definitions for SHA is unknown.

Appendix B Recovered Munitions Items

Id	Incident	Location	Revised Ordnance	Item Category	Source	UXO_Source	x	y
0	15-89	Bldg 173	6 x 155 mm, cartridge	MEC	Possibly from 1926 detonation	1926 Source	536899.06139000000	4532174.45465000000
0	03-97	Bldg 173	21 x small arms	SAA	Inventory from mid to late 1930s and after	Non-1926 Source	536910.58062000000	4532163.63585000000
0	03-97	Bldg 173	2 x grenades, inert	MD	Inventory from mid to late 1930s and after	Non-1926 Source	536910.58062000000	4532163.63585000000
0	03-97	Bldg 173	Blast cap, inert	MD	Inventory from mid to late 1930s and after	Non-1926 Source	536910.58062000000	4532163.63585000000
0	03-97	Bldg 173	5 x misc., M5	MD	Inventory from mid to late 1930s and after	Non-1926 Source	536910.58062000000	4532163.63585000000
0	04-97	Bldg 173	20 x small arms	SAA	Inventory from mid to late 1930s and after	Non-1926 Source	536931.00693600000	4532147.80536000000
0	07-92	Bldg 1029	1 L of ether	FLAMMABLE	Inventory from mid to late 1930s and after	Non-1926 Source	537743.49946500000	4532272.10461000000
0	23-89	Bldg 408	40 mm, practice	MD	Inventory from mid to late 1930s and after	Non-1926 Source	537095.06997500000	4532621.22983000000
0	22-89	Bldg 350	Misc., empty	MD	Inventory from mid to late 1930s and after	Non-1926 Source	536594.63426600000	4532725.63292000000
0	18-97	Bldg 352N	Mine, scrap	MD	Inventory from mid to late 1930s and after	Non-1926 Source	536621.92988400000	4532703.05700000000
0	16-89	Bldg 307	20 mm, HEI, inert	MD	Inventory from mid to late 1930s and after	Non-1926 Source	536655.26219100000	4532640.11965000000
0	28-88	Bldg 307	150 mm, inert	MD	Possibly from 1926 detonation	1926 Source	536664.15372600000	4532623.29097000000
0	13-89	Bldg 307	105 mm, inert	MD	Inventory from mid to late 1930s and after	Non-1926 Source	536685.17220300000	4532613.43975000000
0	07-88	Bldg 316	Grenade, flash	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	536774.24496500000	4532751.99634000000
0	03-96	9th Street Bridge	66 mm, empty	MD	Inventory from mid to late 1930s and after	Non-1926 Source	536975.02327900000	4532822.31725000000
0	21-88	Bldg 268	Mine, inert	MD	Inventory from mid to late 1930s and after	Non-1926 Source	536691.24506200000	4532922.07222000000
0	21-88	Bldg 268	3 x pryotechnic, inert	MD	Inventory from mid to late 1930s and after	Non-1926 Source	536691.24506200000	4532922.07222000000
0	11-89	Inter 9th & 11th	2.75 inch, HE	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	536887.07033800000	4533063.95336000000
0	11-89	Inter 9th & 11th	Projectile, APHE, empty	MD	Inventory from mid to late 1930s and after	Non-1926 Source	536887.07033800000	4533063.95336000000
0	02-95	Bldg 462B	50 x 20 mm, TPT	MD	Inventory from mid to late 1930s and after	Non-1926 Source	537349.44662900000	4532908.92808000000
0	02-95	Bldg 462B	35 x 20 mm, cartridges	MD	Inventory from mid to late 1930s and after	Non-1926 Source	537349.44662900000	4532908.92808000000
0	02-95	Bldg 462B	47 x small arms	SAA	Inventory from mid to late 1930s and after	Non-1926 Source	537349.44662900000	4532908.92808000000
0	01-95	Bldg 462	60 mm, inert	MD	Inventory from mid to late 1930s and after	Non-1926 Source	537350.57732300000	4532839.37156000000
0	17-86	Unknown	2 x 250 lb bombs	MEC	Possibly from 1926 detonation	1926 Source	536976.80211600000	4533187.96444000000
0	02-94	Bldg 281	50 x small arms	SAA	Inventory from mid to late 1930s and after	Non-1926 Source	536996.81176200000	4533175.58635000000
0	02-94	Bldg 281	pyrotechnic,	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	536996.81176200000	4533175.58635000000
0	19-86	BTU	615 x small arms	SAA	Inventory from mid to late 1930s and after	Non-1926 Source	537009.04181600000	4533165.87006000000
0	09-98	Bldg 329	Mine, inert	MD	Inventory from mid to late 1930s and after	Non-1926 Source	537129.21536800000	4533161.39963000000
0	02-96	Bunker 602B	4 x 40 mm, HEDP	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	536939.84671700000	4533359.80708000000
0	27-88	Bldg 506	Blasting cap	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	537546.23715500000	4533092.14288000000
0	05-92	Bldg 524	2 x fuze, grenades	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	537672.56821600000	4533185.52181000000
0	05-92	Bldg 524	Fuze, projectile	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	537672.56821600000	4533185.52181000000
0	05-92	Bldg 524	2 x subcal	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	537672.56821600000	4533185.52181000000
0	05-92	Bldg 524	4.2 inch, HE	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	537672.56821600000	4533185.52181000000
0	13-98	Bldg 534	3 x grenade, empty	MD	Inventory from mid to late 1930s and after	Non-1926 Source	537813.28358100000	4533284.76617000000
0	12-88	Bldg 3022	3 x HE, azides	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	538153.72151500000	4533228.81286000000
0	09-90	Bldg 3028	2 bottles of dioxane	FLAMMABLE	Inventory from mid to late 1930s and after	Non-1926 Source	538265.33148800000	4533418.86717000000
0	01-93	Bldg 3028	1 gallon of tetrahydrofuran	SOLVENT	Inventory from mid to late 1930s and after	Non-1926 Source	538278.19707700000	4533402.78258000000
0	05-91	Bldg 3028	26 x small arms	SAA	Inventory from mid to late 1930s and after	Non-1926 Source	538292.21666200000	4533387.64127000000
0	14-86	Bldg 3050	Fuze, impact	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	538507.47409500000	4533401.08024000000
0	25-89	Bldg 3220	cartridge, casing	MD	Inventory from mid to late 1930s and after	Non-1926 Source	538575.10572300000	4533272.90996000000
0	10-98	Bldg 3231	10 inch, scrap	CD	Inventory from mid to late 1930s and after	Non-1926 Source	538596.21748200000	4533156.97862000000
0	19-89	Bldg 3054	106 mm, HEAT, empty	MD	Inventory from mid to late 1930s and after	Non-1926 Source	538697.12261000000	4533740.34230000000
0	09-92	Navy Hill Gate	6 inch, AP	MD	Possibly from 1926 detonation	1926 Source	539024.99805700000	4533427.74148000000
0	12-90	Bldg 3801	106 x misc.	CD	Inventory from mid to late 1930s and after	Non-1926 Source	539820.26785100000	4534472.80155000000

Note: this table is a listing of items found from 1986 through 1998, based on the Explosive Ordnance Disposal (EOD) incident reports. The definitions for SHA is unknown.

Appendix B Recovered Munitions Items

Id	Incident	Location	Revised Ordnance	Item Category	Source	UXO_Source	x	y
0	13-94	Bldg 3501	Mine, empty	MD	Inventory from mid to late 1930s and after	Non-1926 Source	539877.09704400000	4534347.64605000000
0	08-86	Land Nav Course	40 mm, projectile	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	539798.33624500000	4534791.51156000000
0	06-97	Area 8	2 x BLU-7A/S	MD	Inventory from mid to late 1930s and after	Non-1926 Source	539813.98713700000	4534772.57807000000
0	07-97	Gorge	2 x 152 mm, practice	MD	Inventory from mid to late 1930s and after	Non-1926 Source	539206.28941900000	4535315.18547000000
0	07-97	Gorge	20 mm, HE	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	539206.28941900000	4535315.18547000000
0	16-97	Bldg 647	81 mm, inert	MD	Inventory from mid to late 1930s and after	Non-1926 Source	538337.45900400000	4534801.40728000000
0	07-98	Bldg 642	155 mm, practice	MD	Possibly from 1926 detonation	1926 Source	538036.60183600000	4534580.23565000000
0	04-98	Bldg 642	155 mm, practice	MD	Possibly from 1926 detonation	1926 Source	538060.85200100000	4534561.46046000000
0	05-86	ENCLOSURE TEST AREA	155 mm, HE	MEC	Possibly from 1926 detonation	1926 Source	537743.97338600000	4534202.87291000000
0	05-86	ENCLOSURE TEST AREA	2 x 60 mm, HE	MEC	Possibly from 1926 detonation	1926 Source	537743.97338600000	4534202.87291000000
0	03-98	Bldg 636	2 x bombs, practice	MD	Inventory from mid to late 1930s and after	Non-1926 Source	537594.51671800000	4534101.10939000000
0	02-89	Bldg 636	152 mm, TP-T	MD	Inventory from mid to late 1930s and after	Non-1926 Source	537612.09320600000	4534078.55544000000
0	17-97	Bldg 627	81 mm, practice	MD	Inventory from mid to late 1930s and after	Non-1926 Source	537379.76606400000	4533888.21255000000
0	16-98	B-610	81 mm mortar	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	537329.86515200000	4533791.66258000000
0	15-97	Bldg 611B	3.5 inch, practice	MD	Inventory from mid to late 1930s and after	Non-1926 Source	537212.88745900000	4533721.34685000000
0	15-97	Bldg 611B	76 mm, APHE	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	537212.88745900000	4533721.34685000000
0	15-97	Bldg 611B	75 mm, HE	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	537212.88745900000	4533721.34685000000
0	15-97	Bldg 611B	Grenade, empty	MD	Inventory from mid to late 1930s and after	Non-1926 Source	537212.88745900000	4533721.34685000000
0	08-89	Bldg 810	3 x 15 lb HE, shape charge	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	537779.51623200000	4533729.55738000000
0	08-89	Bldg 810	10 x HE, comp B	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	537779.51623200000	4533729.55738000000
0	02-93	Bldg 800	miscellaneous	CD	Inventory from mid to late 1930s and after	Non-1926 Source	537647.44137500000	4533611.31371000000
0	12-86	Bldg 800	13 x primer	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	537667.77050200000	4533599.11445000000
0	15-86	Bldg 800	2 x primer	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	537681.41661600000	4533583.99567000000
0	10-86	Bldg 800	primer	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	537702.17631200000	4533565.11985000000
0	10-86	Bldg 800	2 x 105 mm, cartridge	MD	Inventory from mid to late 1930s and after	Non-1926 Source	537702.17631200000	4533565.11985000000
0	06-89	Mt Hope Gate	37 mm, AP	MD	Inventory from mid to late 1930s and after	Non-1926 Source	537639.25622800000	4531572.27200000000
0	10-88	Bldg 3100	105 mm, igniter	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	537711.83188000000	4532625.77117000000
0	03-95	Bldg 3128	3 inch, HE	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	538011.37757100000	4532701.43232000000
0	03-95	Bldg 3128	2 x 3 inch, scrap	CD	Inventory from mid to late 1930s and after	Non-1926 Source	538011.37757100000	4532701.43232000000
0	20-88	Bldg 3109	105 mm, inert	MD	Inventory from mid to late 1930s and after	Non-1926 Source	537897.80624000000	4532471.55997000000
0	05-89	Bldg 3109	3,460 x small arms	SAA	Inventory from mid to late 1930s and after	Non-1926 Source	537934.17412200000	4532436.55956000000
0	06-88	Bldg 3150N	Blasting cap	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	538520.35511100000	4532615.84575000000
0	04-88	Bldg 3150	MK24 projectile	MEC	Inventory from mid to late 1930s and after	Non-1926 Source	538447.77761900000	4532449.29471000000
0	18-88	Bldg 3150	6 inch, HE	MEC	Possibly from 1926 detonation	1926 Source	538424.02756100000	4532469.54738000000
0	03-92	Housing Area???	3 x grenades, empty	MD	Inventory from mid to late 1930s and after	Non-1926 Source	538722.39684400000	4532939.76703000000
0	03-92	Housing Area???	RKT, scrap	MD	Inventory from mid to late 1930s and after	Non-1926 Source	538722.39684400000	4532939.76703000000
0	03-92	Housing Area???	Fuze, inert	MD	Inventory from mid to late 1930s and after	Non-1926 Source	538722.39684400000	4532939.76703000000
0	02-92	Housing Area???	5 x 90 mm, inert	MD	Inventory from mid to late 1930s and after	Non-1926 Source	538755.70737400000	4532926.30180000000
0	02-92	Housing Area???	BDU63, inert	MD	Inventory from mid to late 1930s and after	Non-1926 Source	538755.70737400000	4532926.30180000000
0	21-97	Bldg 3152	5 inch, HE	MEC	Possibly from 1926 detonation	1926 Source	538583.92683000000	4532789.32037000000
0	01-88	Housing Area???	60 mm, inert	MD	Inventory from mid to late 1930s and after	Non-1926 Source	538710.79068700000	4532856.68522000000
0	08-90	Bldg 66	4 x 122 mm, cartridge	MD	Inventory from mid to late 1930s and after	Non-1926 Source	535943.36944200000	4532292.73721000000
0	07-90	Bldg 60	155 mm, practice	MD	Possibly from 1926 detonation	1926 Source	535949.73768200000	4532221.41915000000
0	11-94	Bldg 60S	48 x 120 mm, inert	MD	Inventory from mid to late 1930s and after	Non-1926 Source	535967.21622000000	4532204.75354000000
0	08-88	Escape Trail Road	81 mm, practice	MD	Inventory from mid to late 1930s and after	Non-1926 Source	535540.90285700000	4532139.10114000000

Note: this table is a listing of items found from 1986 through 1998, based on the Explosive Ordnance Disposal (EOD) incident reports. The definitions for SHA is unknown.

Appendix B Recovered Munitions Items

Id	Incident	Location	Revised Ordnance	Item Category	Source	UXO_Source	x	y
0	01-89	Bldg 3002	projectile, inert	MD	Inventory from mid to late 1930s and after	Non-1926 Source	537662.44173600000	4532813.40944000000
0	03-93	Bldg 221	40 mm, cartridge	MD	Inventory from mid to late 1930s and after	Non-1926 Source	536615.31867100000	4533283.31037000000
0	01-92	Main Gate	90 mm, practice	MD	Inventory from mid to late 1930s and after	Non-1926 Source	535431.25282600000	4529672.64268000000
0	01-92	Main Gate	2 x grenades, empty	MD	Inventory from mid to late 1930s and after	Non-1926 Source	535431.25282600000	4529672.64268000000
0	25-88	Bldg 3342	BLU33, inert	MD	Inventory from mid to late 1930s and after	Non-1926 Source	539009.08894600000	4533702.45031000000

MD	Munition Debris
MEC	Munitions of Explosive Concern
SAA	Small Arms Ammunition
CD	Cultural Debris

Note: this table is a listing of items found from 1986 through 1998, based on the Explosive Ordnance Disposal (EOD) incident reports. The definitions for SHA is unknown.

APPENDIX C

INTERVIEWS

30 April, 2013 Picatinny Arsenal Interview with ex-personnel

Attendees:

- Ted Gabel, CENAB
- J.B. Smith, PTA
- Clint Henker, CENAB
- Nicole Sharkey, Weston

<u>Career Experience at Picatinny Arsenal:</u>

1965-2002 worked at Picatinny Arsenal

1965 – Started in loading in 200 Area

Moved to 800 Area in manufacturing

Moved to 1300, 1400, and 1000 Areas on propellants and explosives

1970 – Worked in the Fire Department

Moved to Bldg. 617, performed static testing on a static crew

Moved to Bldg. 810 as a supervisor repacking demo(sp?)

Moved to Bldg. 636 as a gun range supervisor

2002 – Bldg. 617 Operations supervisor for all testing in Area

<u>Lake Denmark Range</u>

Firing point was along the Dam, fired toward floating targets (note that the targets were once in water but is currently in the vegetated/Marsh Area).

At one time, fired Russian rockets that would float on the water, which were then retrieved.

Confirmed that during the winter months, when the water was frozen, the crews would retrieve the fired Mortars.

The main Mortars fired were 60mm and 81mm (No HE, only explosive ignition round and cartridge). Occasionally 4.2 in Mortars were also used.

HE rounds were used at the Lake but were only fired statistically, not out of guns.

Observations points for the range existed near the magazines (on the northwestern side of the Lake) and an additional OP along the railroad tracks on the south-eastern side of the Lake.

The intention of the Mortar firing crew was to the hit the targets, and the elevation of the gun would be changed to limit the range of the mortars.

No recollection of a 20mm BOFORs gun –assumes must have been from the Navy.

G1/G2 Area

Illumination rounds (flares) were used in this area.

Static aircraft flares used to light up Picatinny.

Pyrotechnic Area in southern PTA

Pyrotechnic flares were used as well as parachute flares.

Inactive Munitions Waste Pit

Mentioned that classified items were put into the pit.

After mention the trenching results of approx. 15feet of waste under approx. 8 feet of fill, confirms that that much waste was possible but he does not remember the depth of the pit.

All items should have been inert.

Main items disposed of in pit included target material (planes, cars and drums).

Has no recollection of TCE being used in the area, or its disposal, but notes that TCE was used for small caliber rounds, and small caliber testing occurred at Bldg. 620.

He did know of some drums being buried in the area, but is unsure if at the Waste Pit or an additional pit. He also noted that the drums were supposedly already "cleaned-up".

670 Area

Used for firing of Warheads

BLDG. 652

M42's and M46's static detonated (spun and fired down into block of steel)

Gravel Job

Mortar Range in Southern Picatinny (near pyrotechnic area within FOA MRS)

Target area was south of the safe haven.

Used for 60mm and 81mm Mortars

There were 3 separate firing points:

1. Fired along line of site (intersection of Moody Rail Rd and Shinkle Rd)
2. Fired from end of Old Post Rd (rock trail)
3. Fired from near skeet range

Observation points existed at the old tower location and on Horney Rd.

120mm training rounds were fired from the skeet range firing point

Picatinny Lake

Has no direct memory of items being fired across the lake into the ridge/MTN.

Flare Island was used for both burning and testing of flares from Bldg. 717.

Was working in nearby building during the bldg. 800 explosion, he notes that explosion was strong enough that a man was blown into the lake.

DRMO Yard

Indicated on the map the location of the old burning ground and stated that the building was an incinerator.

All items at DRMO yard should be totally inert

Little Vietnam Area

Stated that the area was used for many different types of mines and indicated on the map the approximate boundary, which was larger than previously thought.

Between Bldg. 1186 and 1180

Static firing demonstrations occurred in this region.

Little Picatinny Area

Where the wood pile now sits used to be manufacturing building, items being manufactured in the building were classified.

Legend

- Installation Boundary
- Military Response Sites
- Operational Range Areas
- Ineligible Area - Burning Ground
- Former Operational Areas
- Munitions Response Sites
- Range Fan
- DMM
- UXO
- MEC
- Munitions Debris

UXO Finds

- Munitions Debris
- MEC

NOTES:
Base Imagery: NJ 2007 Natural Color Imagery
Data Source: Army GIS Layers (August 2011)

Coordinate System: UTM Zone 18N
Datum: WGS84. Units: Feet

0 350 700 Feet
0 80 160 240 Meters

Picatinny Arsenal
Morris County,
New Jersey

WESTON SOLUTIONS

Verified By: XXX

Approved By: XXX

Figure 10-1
Former Operational Range MRS
Range Fan and AOI Intrusive Results

Contract # W912DR-09-D-0006
DO 0002

Y:\Picatinny\MXD\RI_Sept2012\AllFOA_South_Results_Range_Fan.mxd

Below are the notes from JB Smith:

Interview of a former government employee who worked at Picatinny Arsenal: Mr Gary Cooper. The interview took place at the DPW conference room B 3002 on Picatinny Arsenal on 30 April 2013.

Mr Cooper started working on the Arsenal in 1965 and retired with 37 ½ years of service in 02-2002. His last position was managing the test areas in the 600 area. During his career he worked in the 200 (loading) area, the 800 (Manufacturing) area and the 1300 -1400 – 1000 (propellant and explosive) areas. Mr Cooper was rifted to the Fire Department in 1970 and moved to Range operations (B 617) in1982. During this time he worked in B 617 (Range Ops), B 810 (Repack and Demil), B 636 (Large caliber - Gun Range) and returned to B617 as supervisor of range operations until he retired.

Test fired Sagger Mussels at the Lake Denmark range area. Test firing was from the dam firing point northeast into the range. Range personnel recovered the expended missiles using boats following each firing.

Test fired Mortars (60mm, 81mm and 4.2 inch) at the Lake Denmark range area. Firing from the lake firing points northeast into the range observed from the 600 hill area and or the shoreline. Range personnel limited the range of the mortars by only using igniter carts and or reduced supplemental charges to insure rounds remained within the designated range area.

B 616 was used for testing the MK 19 weapons system firing 40mm HEDP rounds.

G2 range area was used for flair testing of artillery and aircraft fairs.

3629 EOD testing

3607 propellant testing

1500 area rocket motor testing, cam mine system and carrier rounds.

B617 firing Point firing into B 611 slug butt.

Inactive munitions waste pit target material, munitions and project materials range scrap.

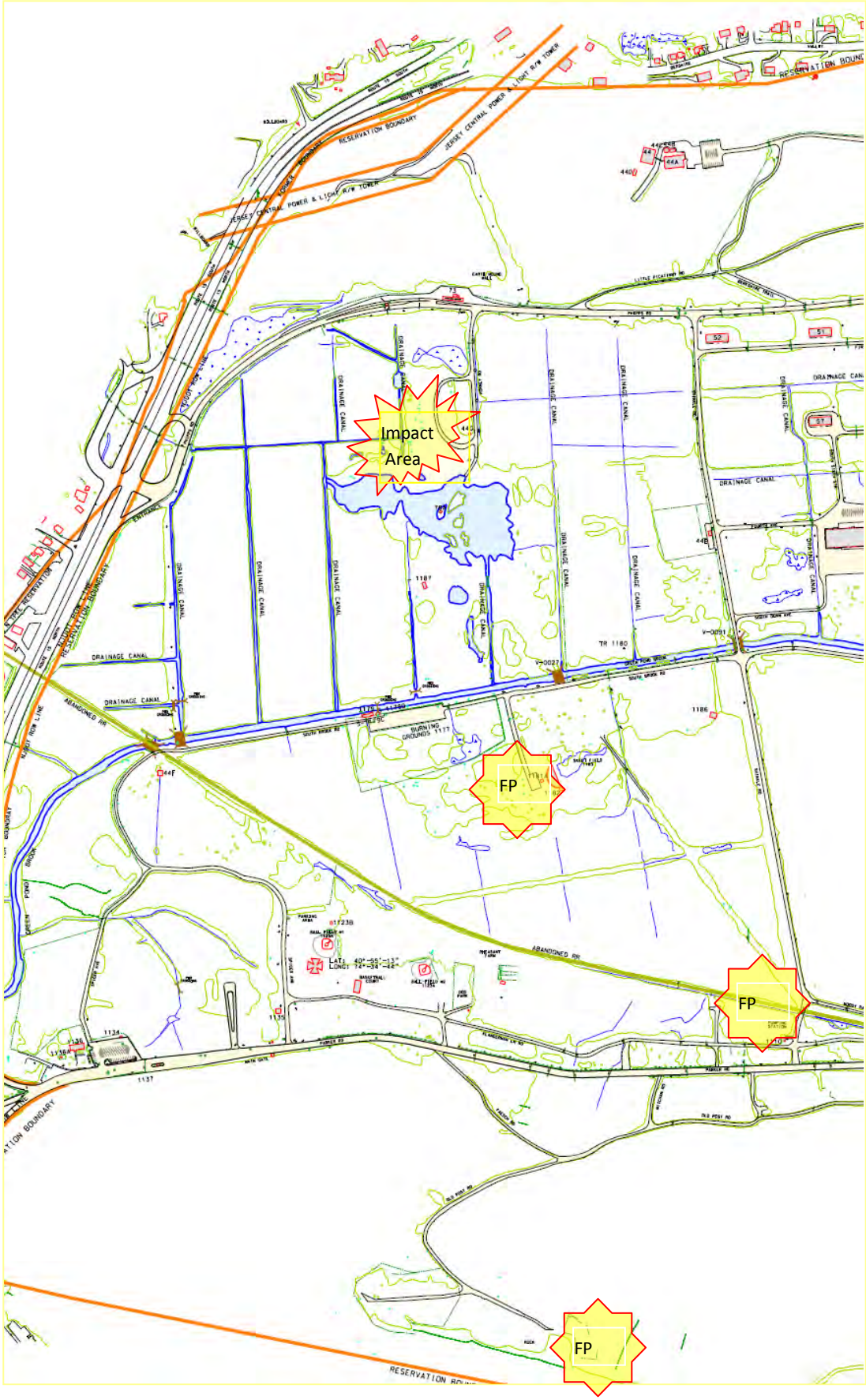
B 620 small call testing (may have been a source of solvent runoff/drain)

MK 19 weapons system tests on range 616 included 40mm HEDP rounds and the hill at the back of the range (Back boundary - North east side) was never cleared and should be considered extremely dangerous.

There was a gun test firing range (75 and 105 mm) firing from the B 617 area into the B611 slug butt.

B 620 was used for Small Cal testing

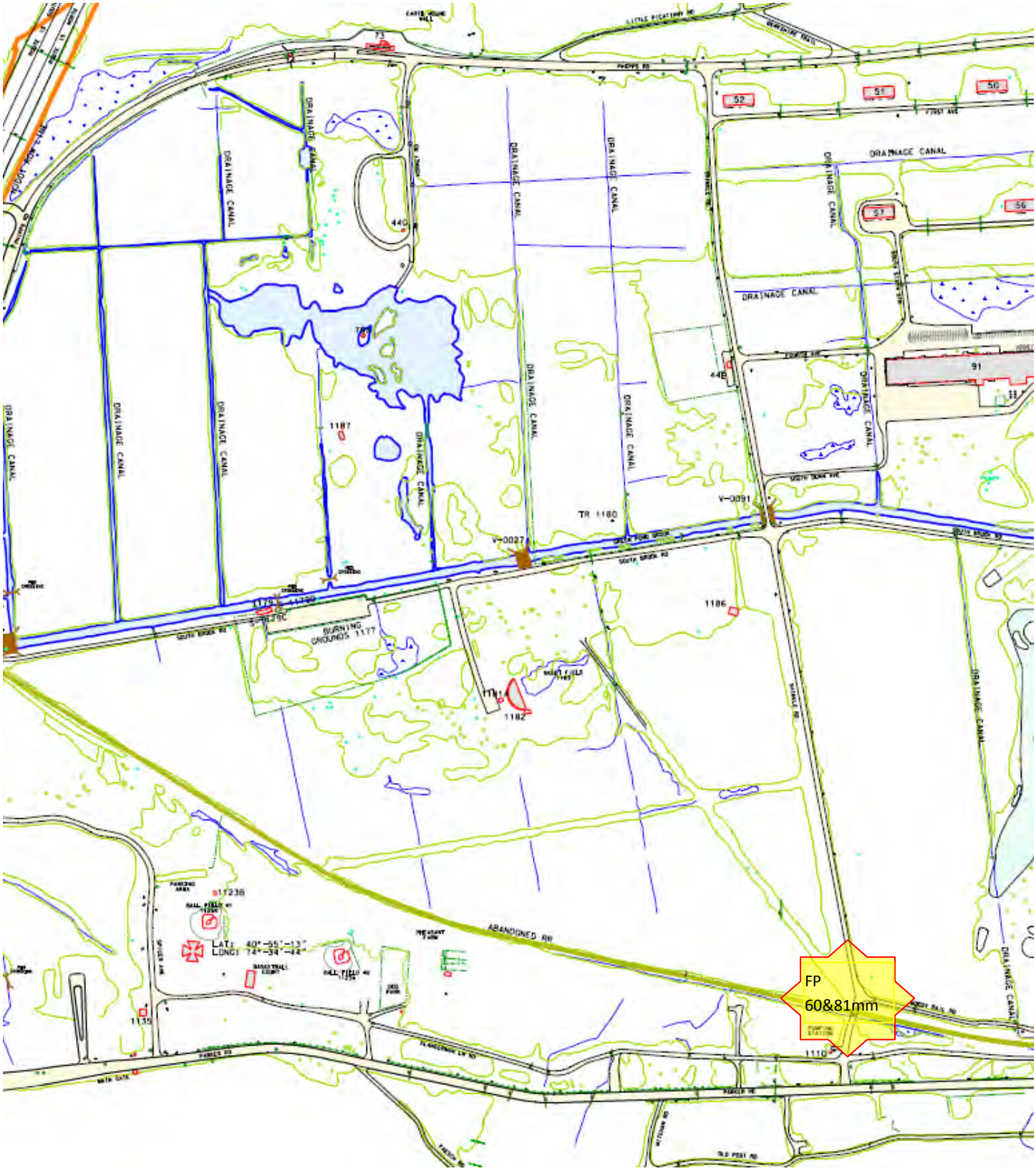
Section 1 Inactive Mortar Range South East –West section of Picatinny Arsenal consisting of an Impact (Target) Area and three Firing Points (FP)



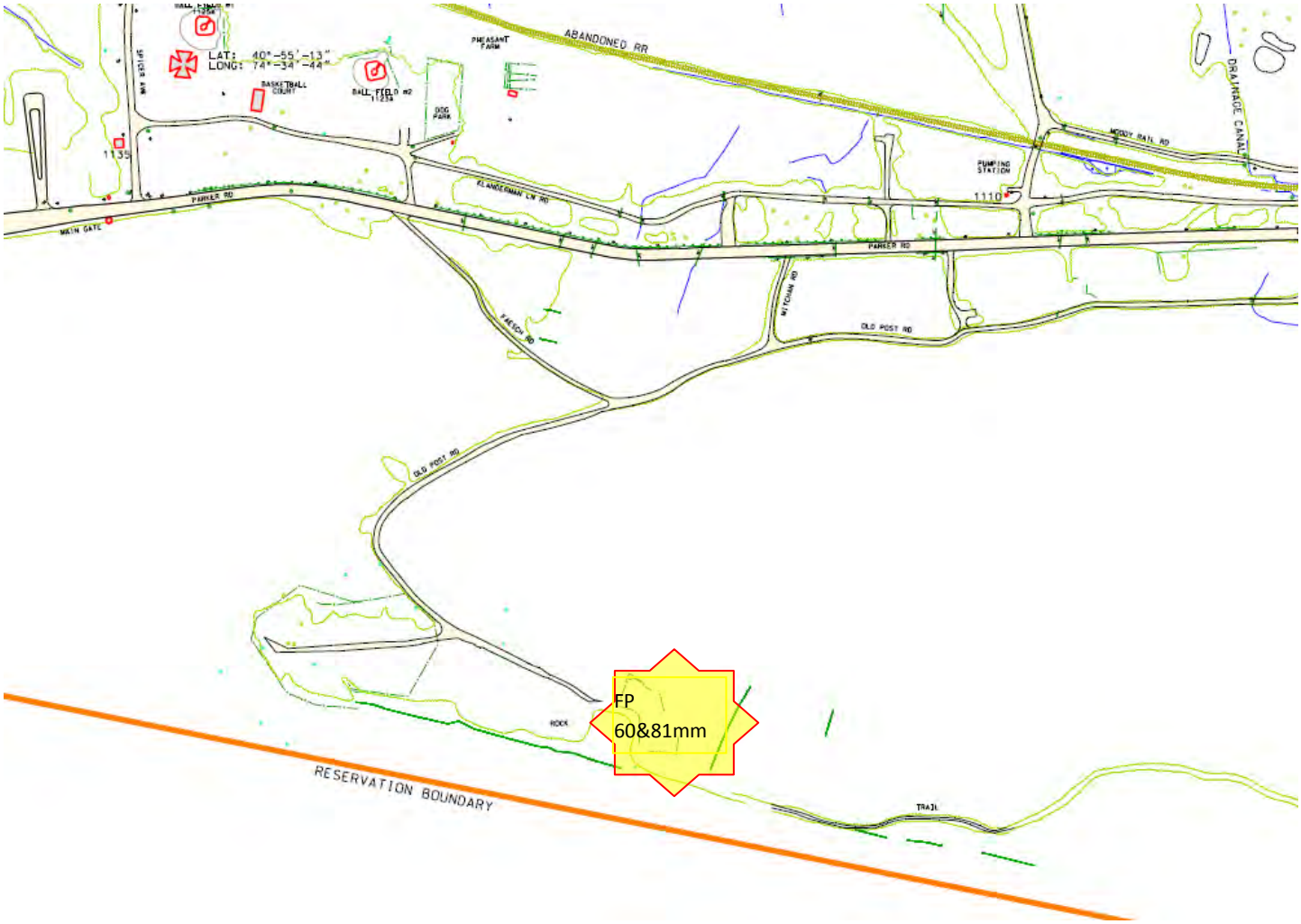
Impact - Target Area of the inactive Southern Mortar Range located near the old burning grounds and truck safe haven.

One of three Firing Points (FP) of the “Inactive Southern Mortar Range” Located near the inactive Skeet Range

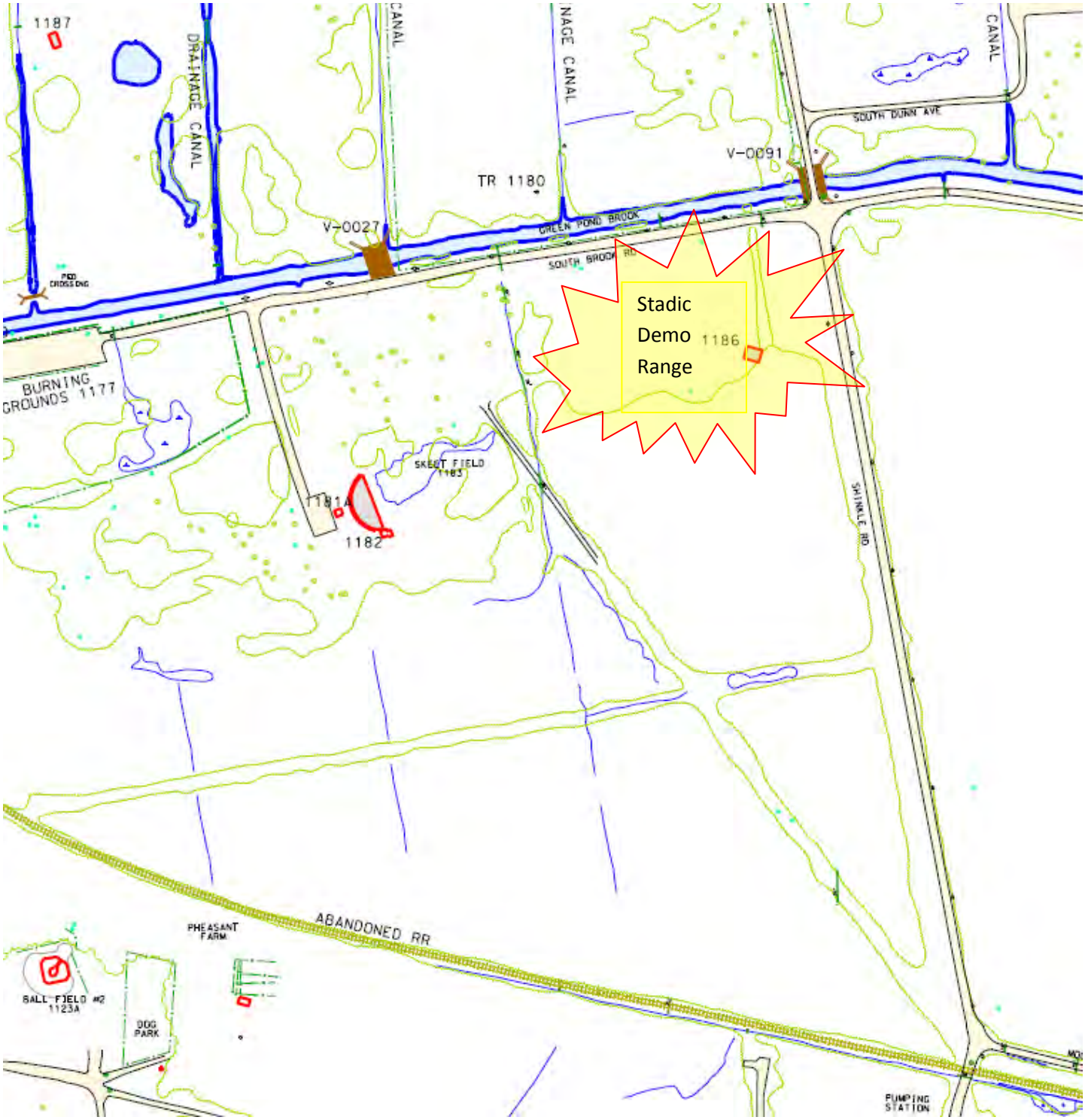
Second of the three Firing Points (FP) for the “Inactive Southern Mortar Range”; Located at the intersection of Shinkle Road and Moody Rail Road near the abandoned rail line.



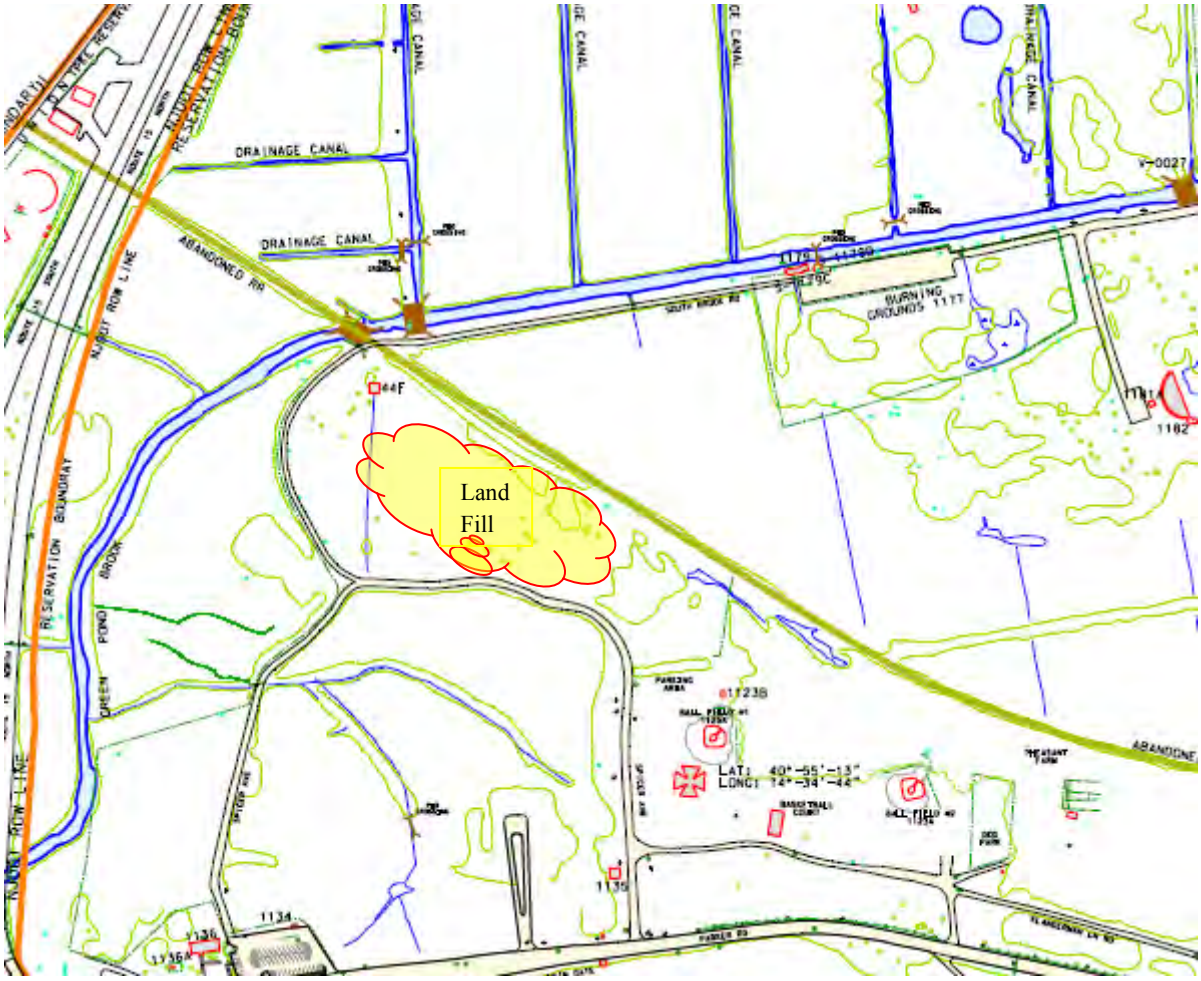
Third, of the three, Firing Points (FP) for the “Inactive Southern Mortar Range”; Located at the end of the Old Post Road – The old post farm area.



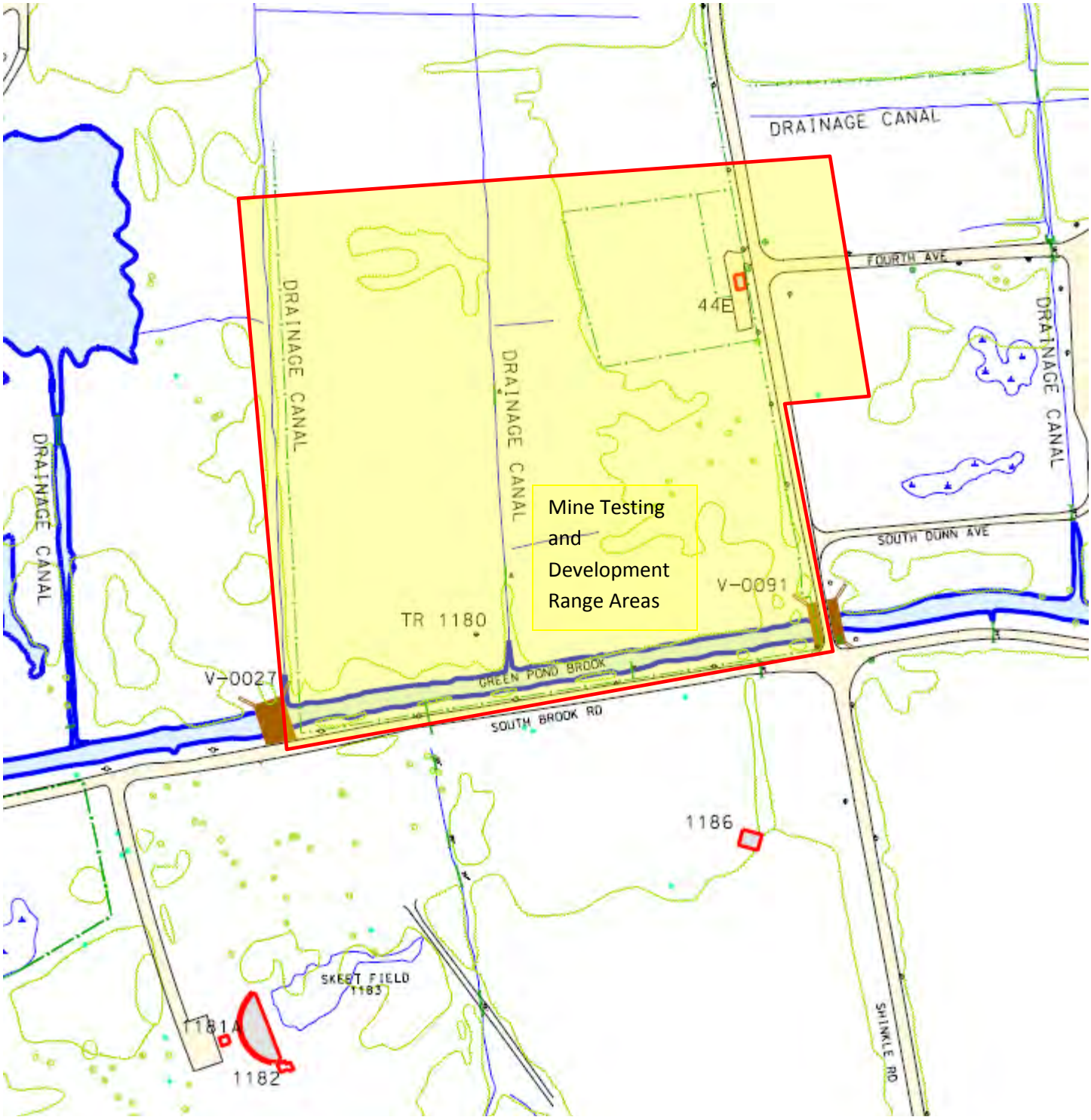
Section 2 Static Demonstration Range South East section of Picatinny Arsenal.



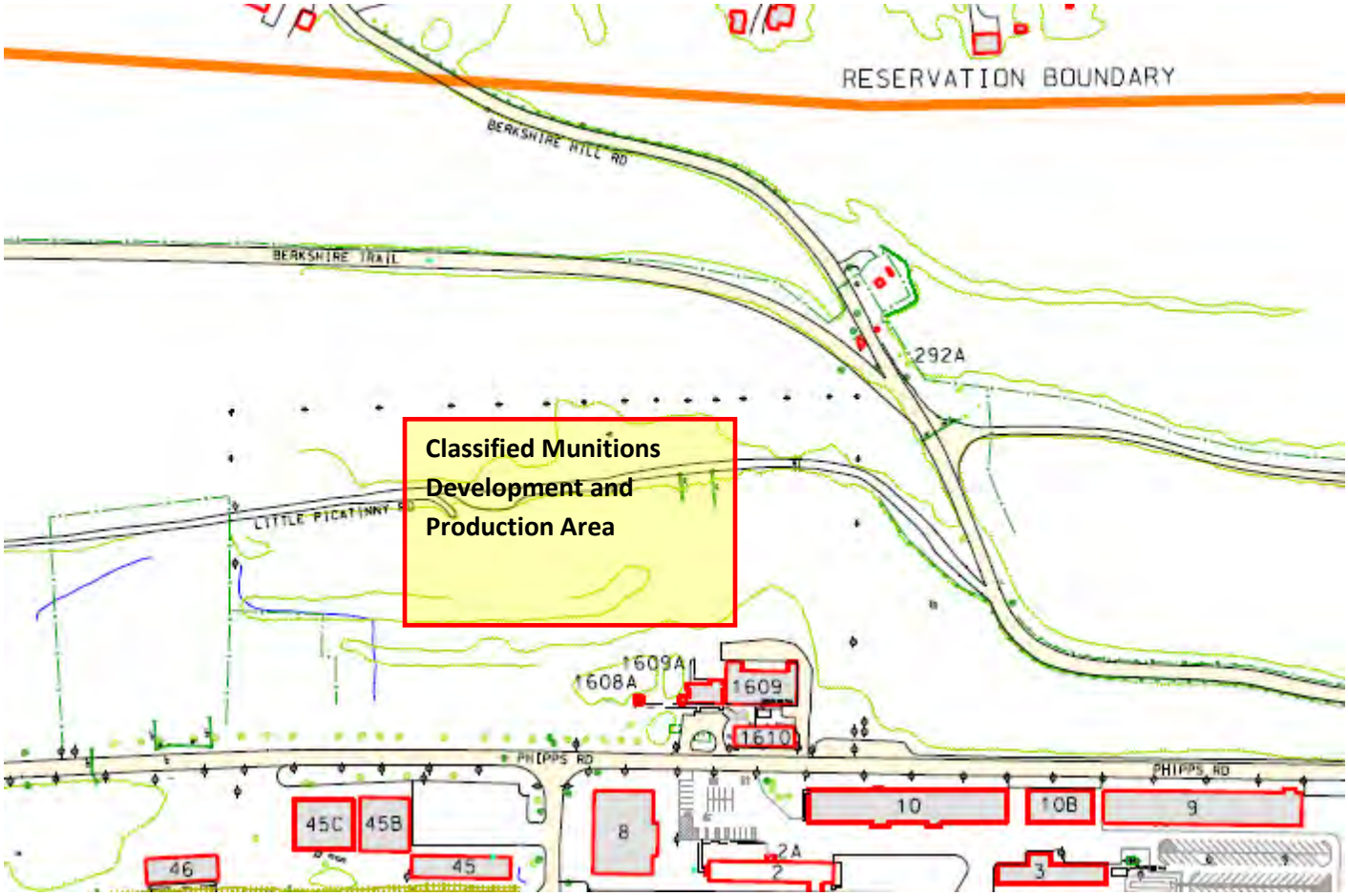
Section 3 Landfill South East section of Picatinny Arsenal.



Section 4 Mine Test and Development Area South East section of Picatinny Arsenal.

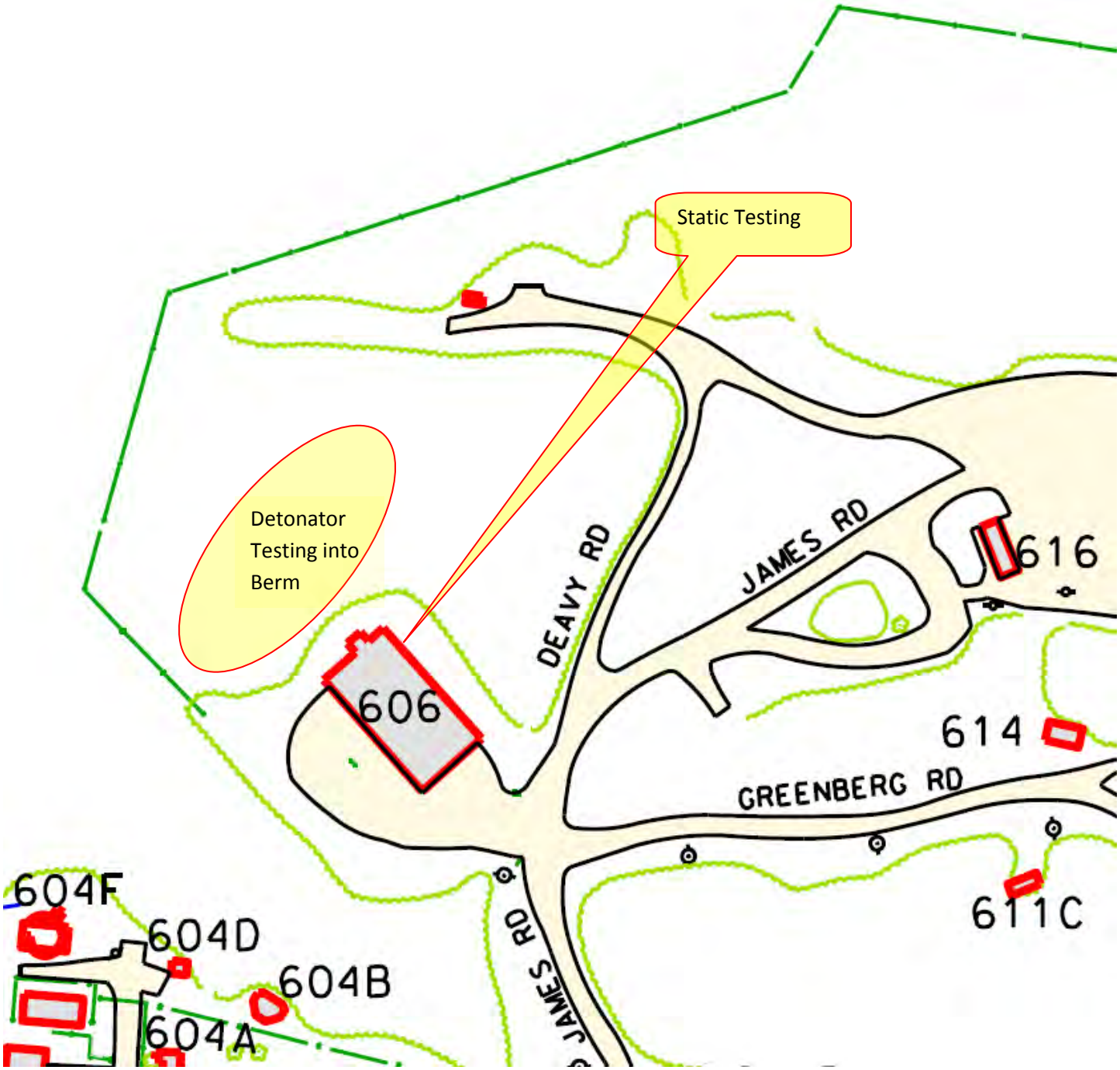


Section 5: Classified Munitions Development and Production facility on South West section of Picatinny Arsenal.

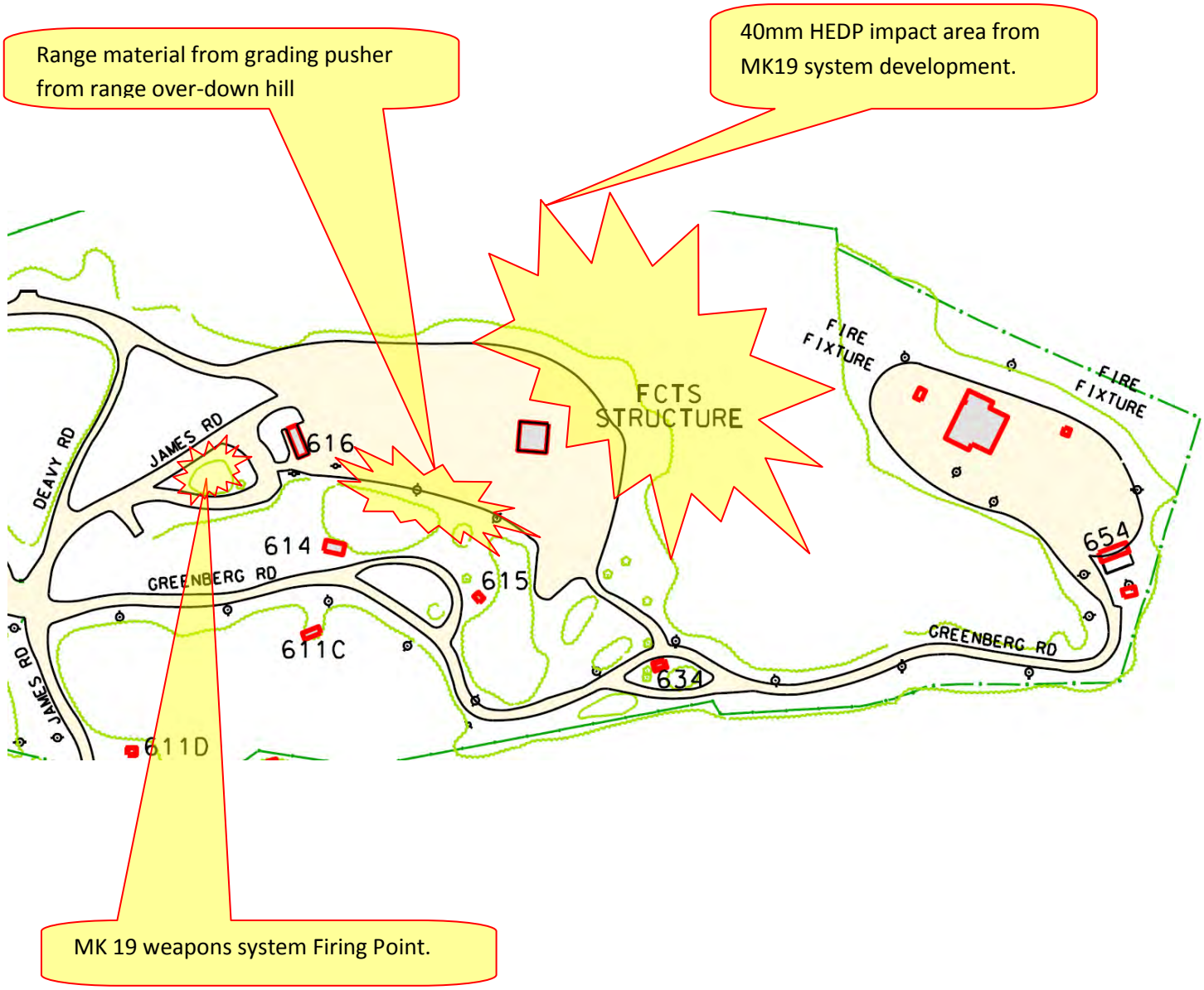


Section 6 600 range Area of Picatinny Arsenal.

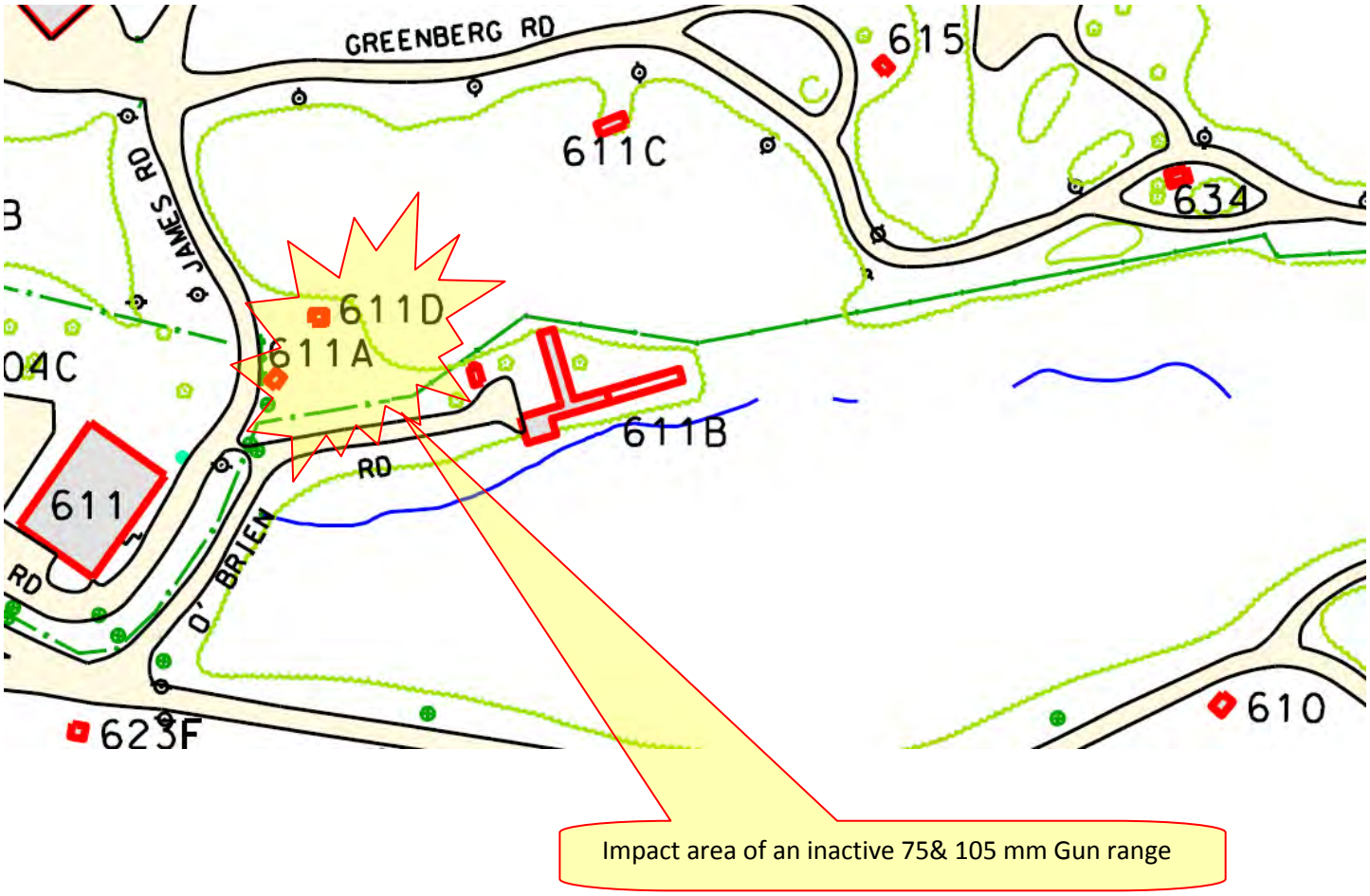
B 606 Areas



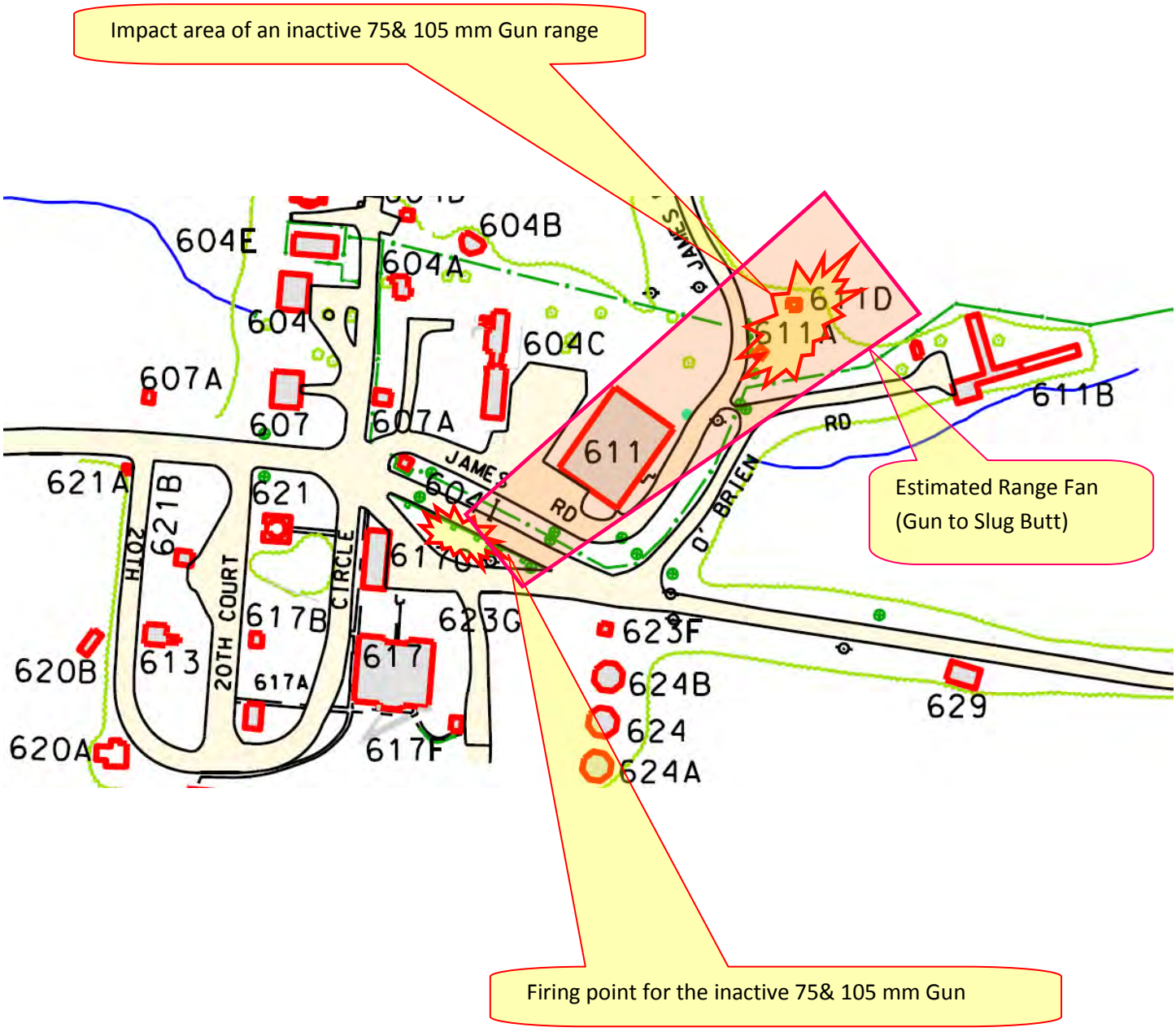
B 616 Range Area (formaly known as area 1)



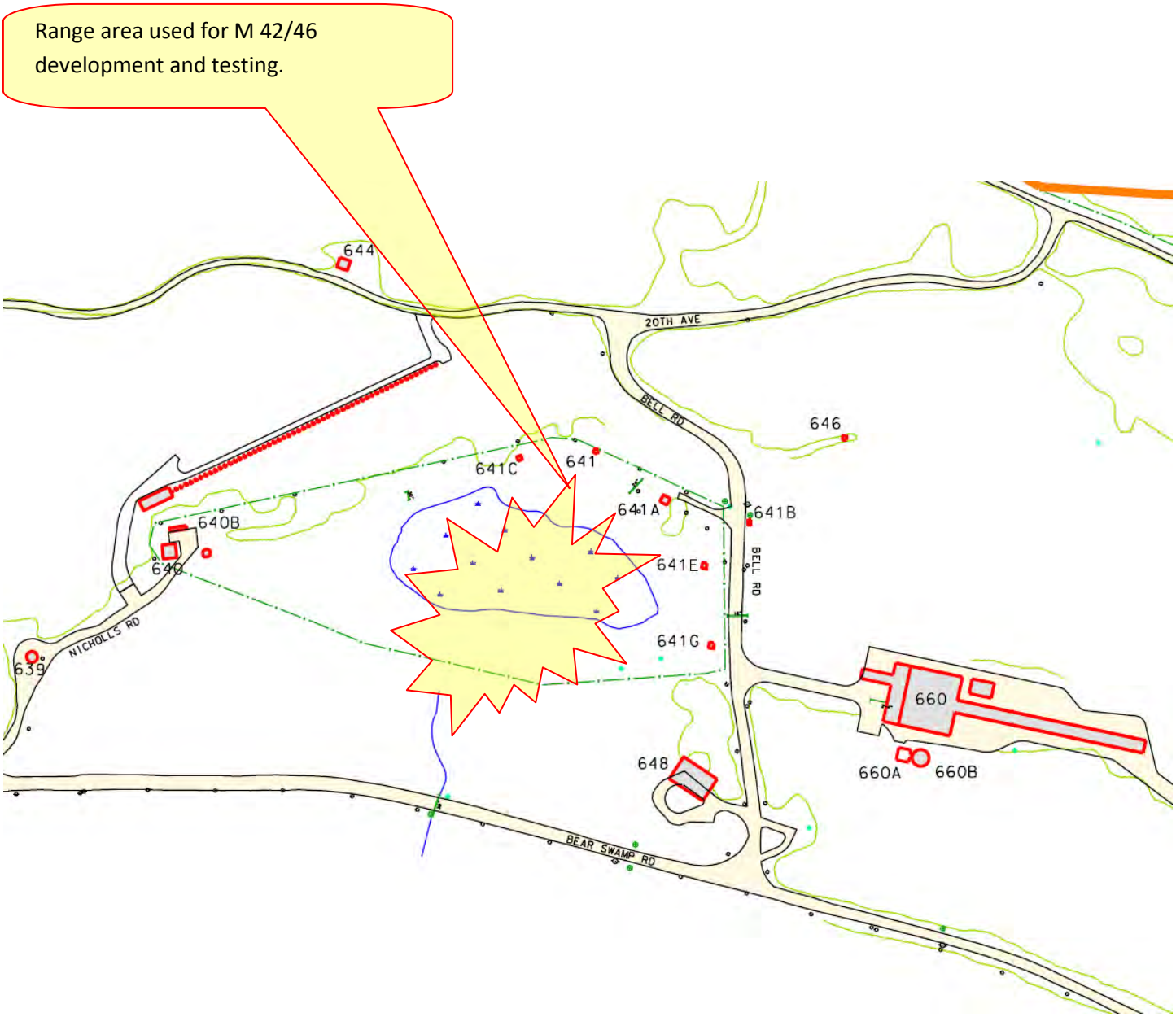
B611 Impact Area (former range)



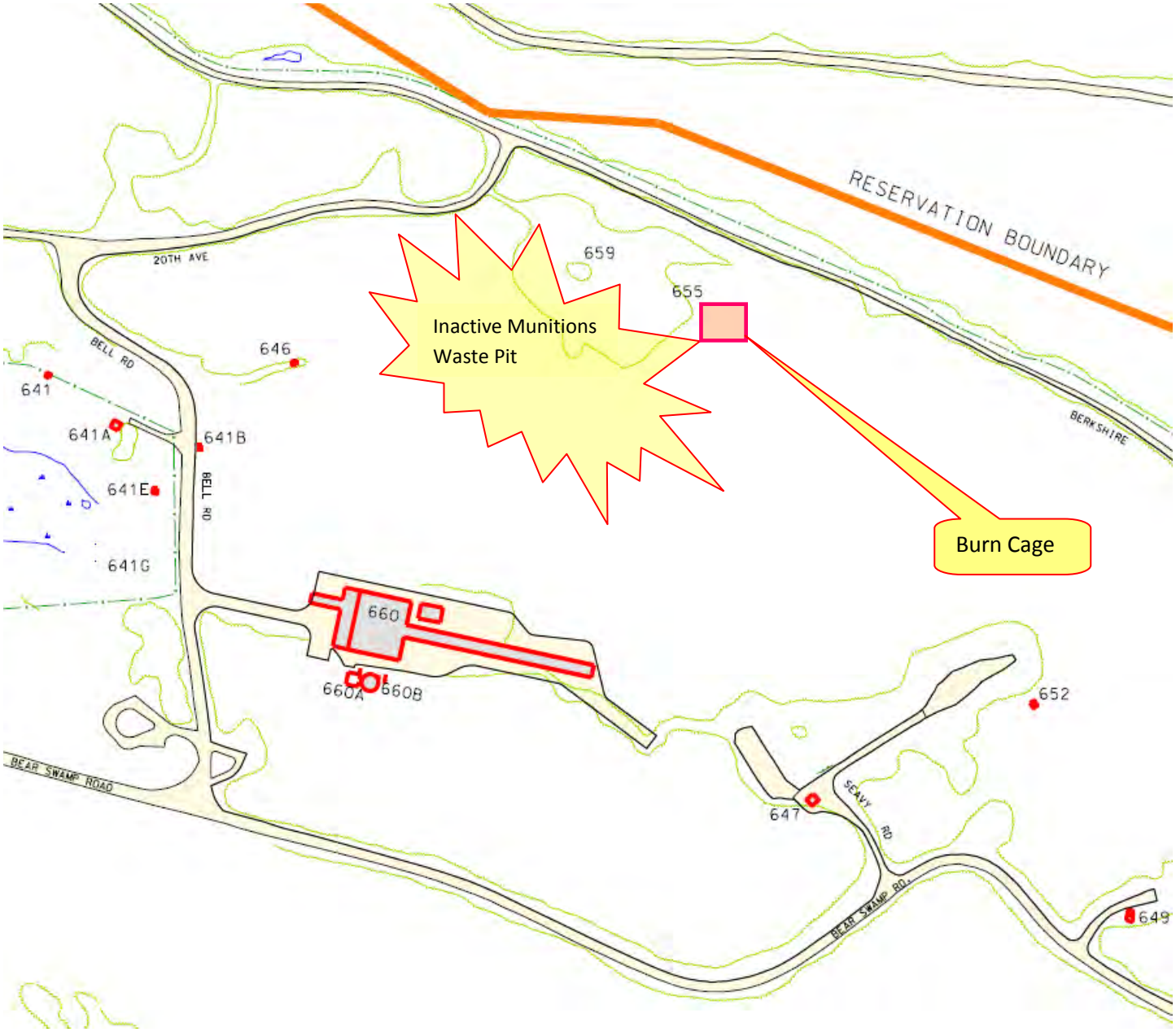
B617 Inactive 75& 105 mm Gun rang



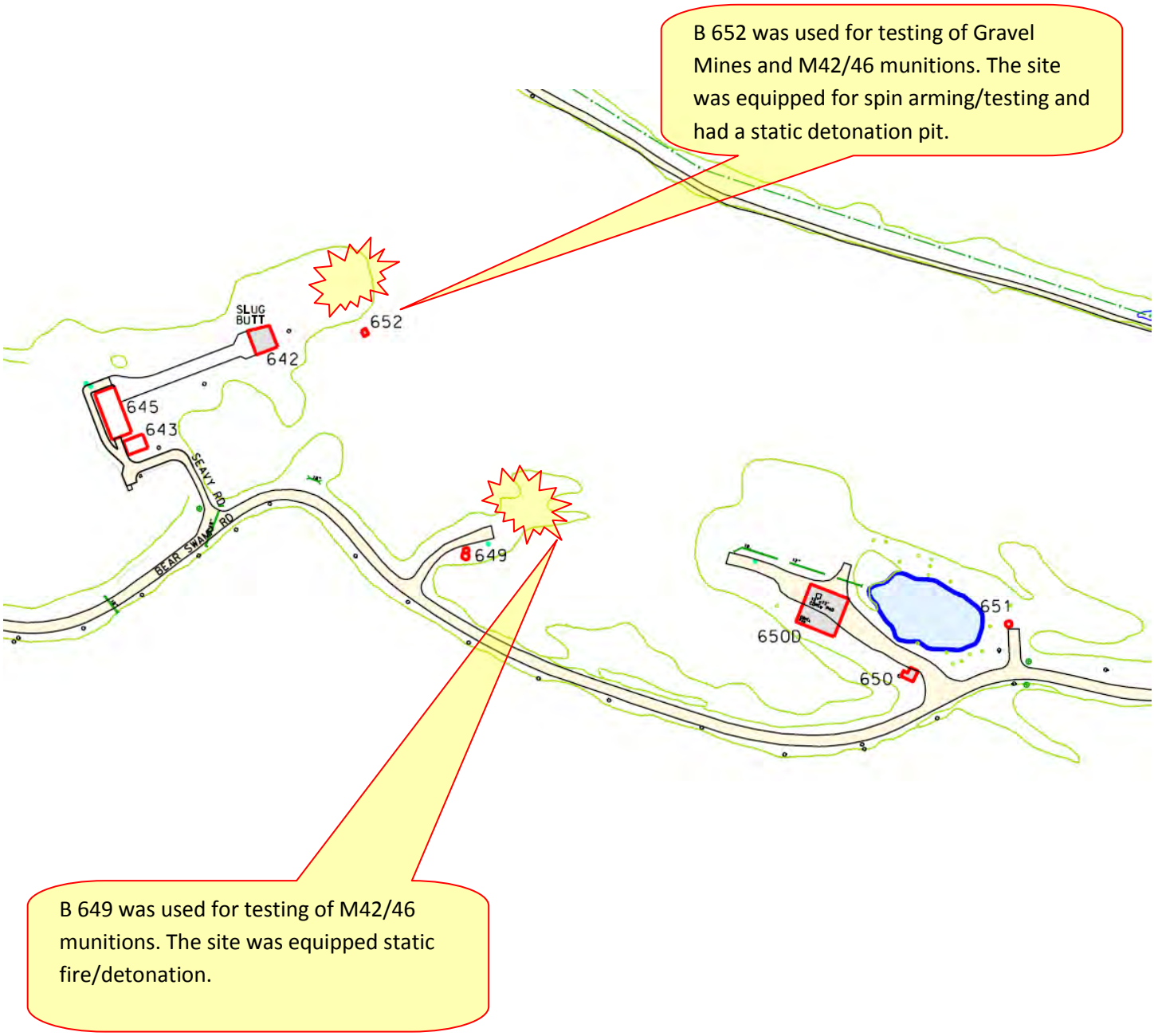
B 641 Range Area



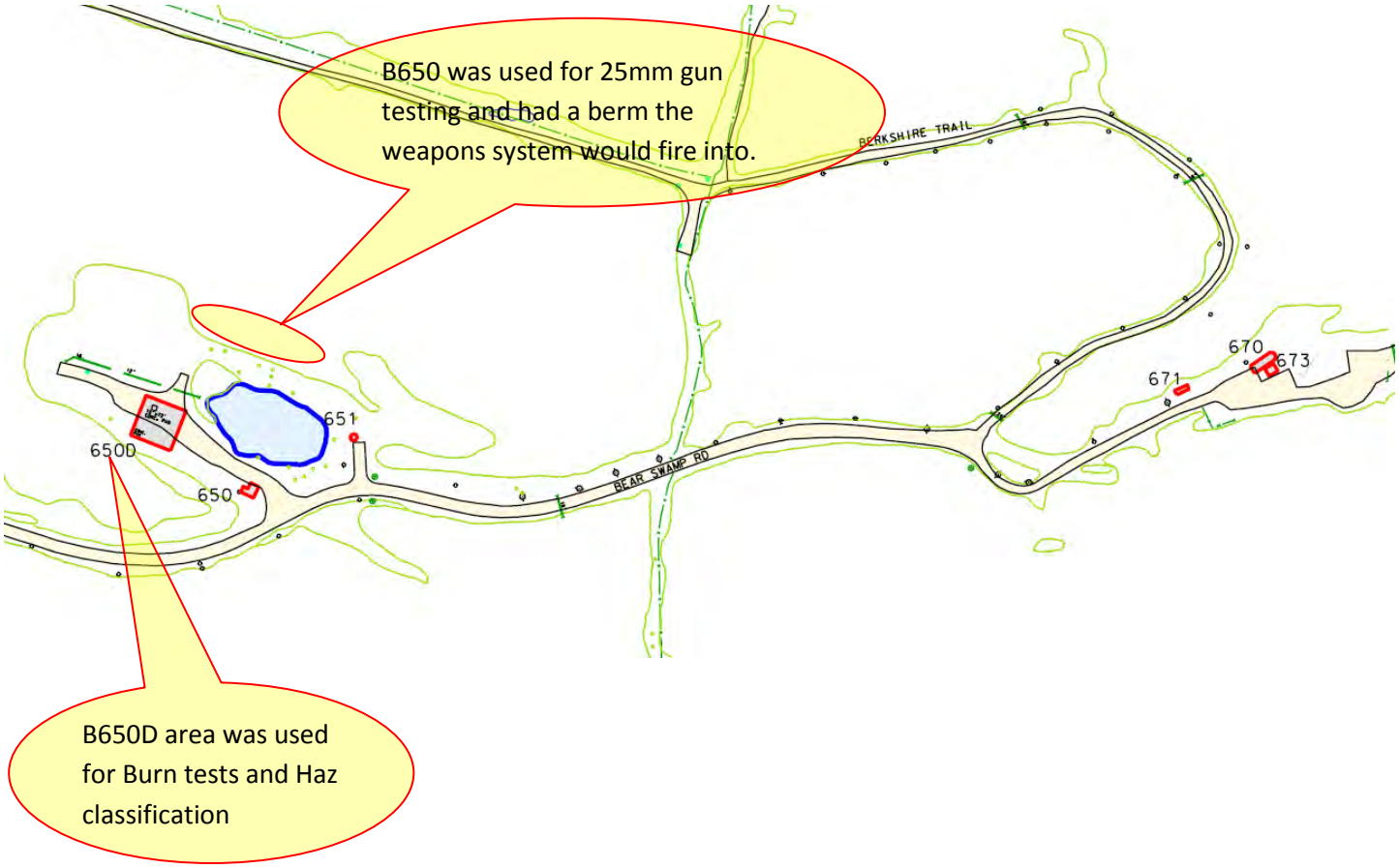
B 659 & B 655 Area is an inactive Range; it was used for classified munitions tests and the “Waste Pit” uas used to dispose of range waste (Munitions, Munitions dabris, target material and project waist). The site is an MMRP/IRP area of consern now known as the Inactive Munitions waste Pit, MRS: AEDB-R-ID: PICA-13-R-01.



B649, B 659 & B 655 Area is a Range Area; it was used for classified munitions tests and the “Waste Pit” uas used to dispose of range waste (Munitions, Munitions dabris, target material and project waist). The site is an MMRP/IRP area of consern now known as the Inactive Munitions waste Pit, MRS: AEDB-R-ID: PICA-13-R-01.

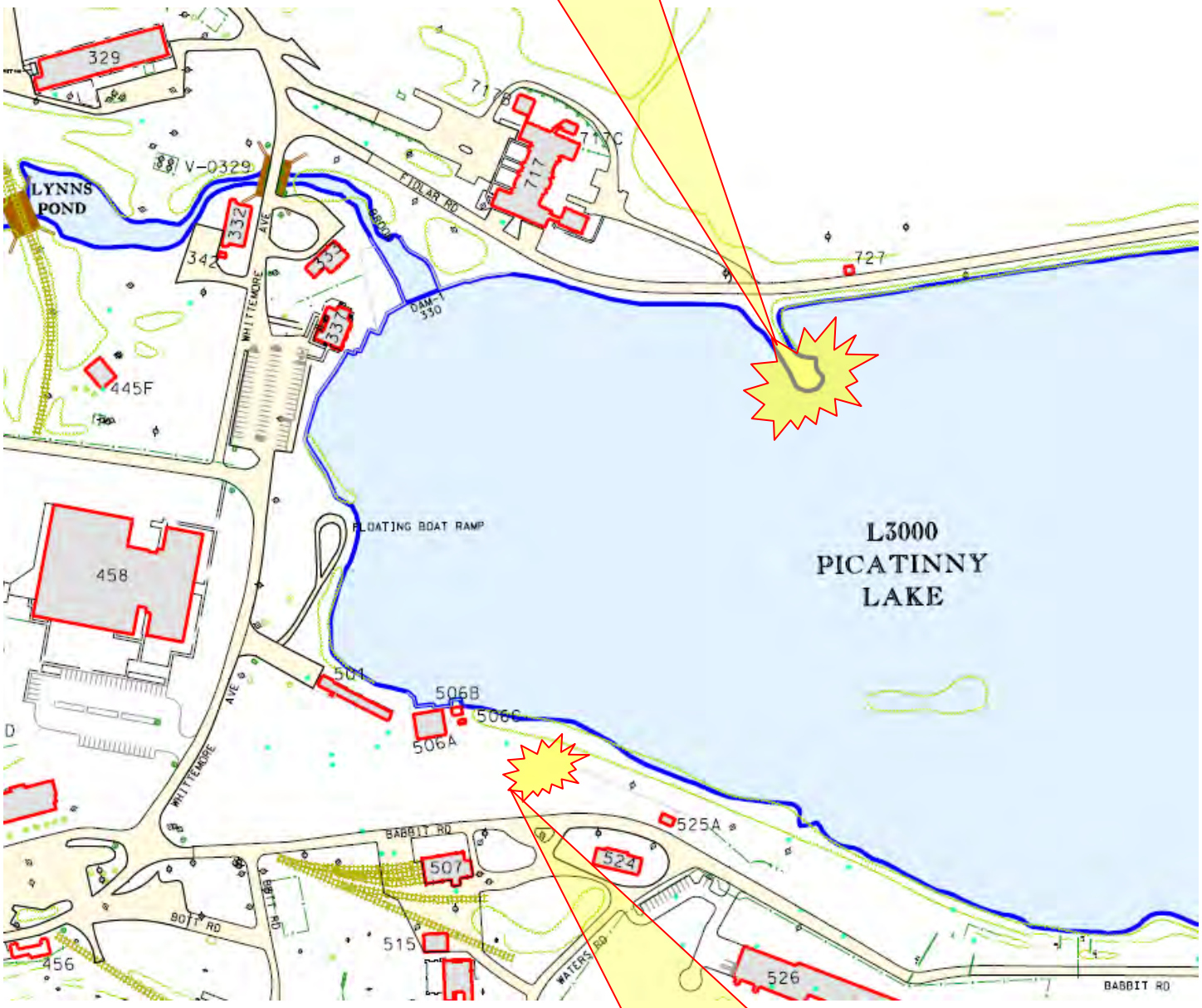


B 650 Range area.



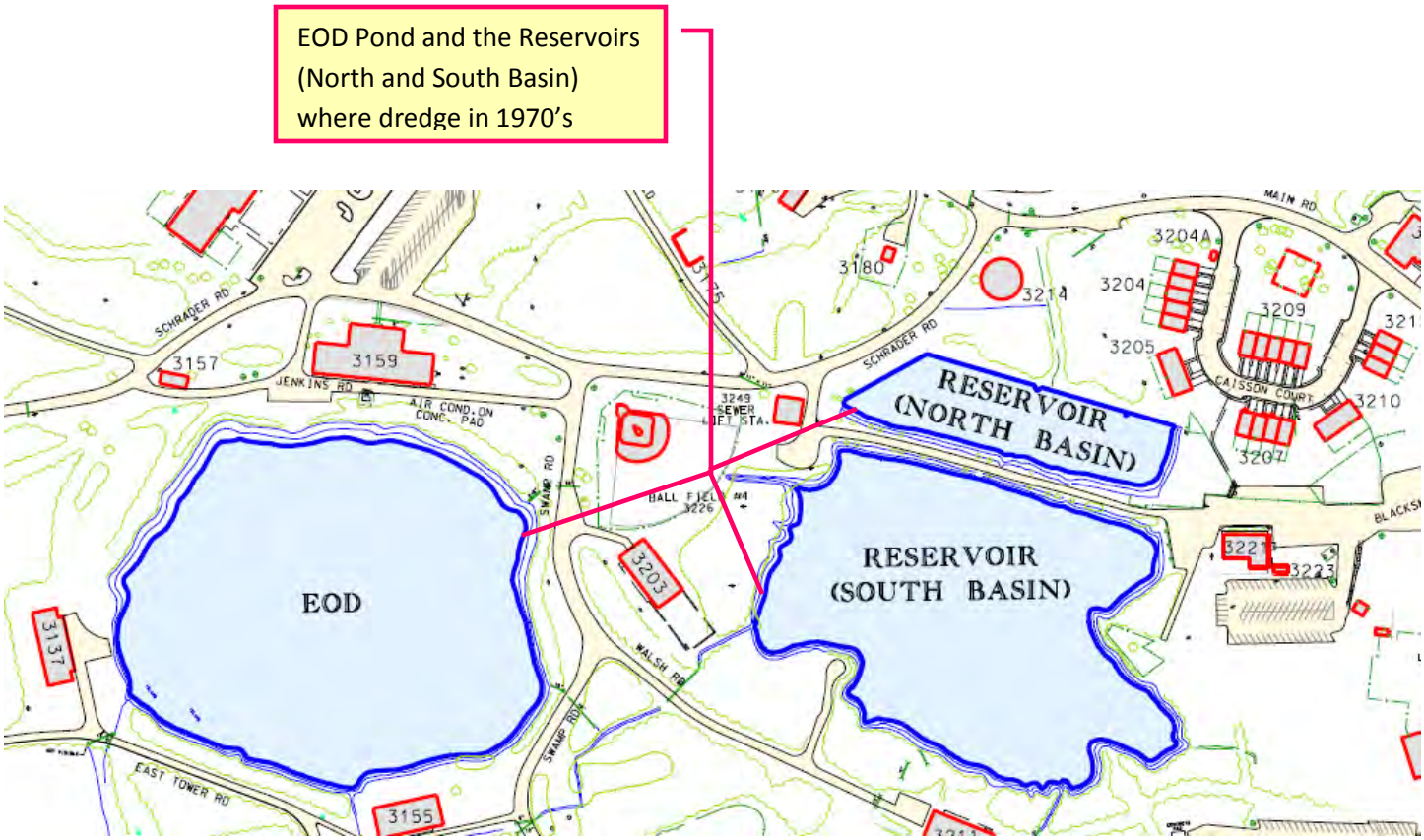
Section 7: 700 – 500 area of Picatinny Arsenal, Flair Island and the Old Power House.

Flair Island was used to burn and test pyrotechnics and flairs.

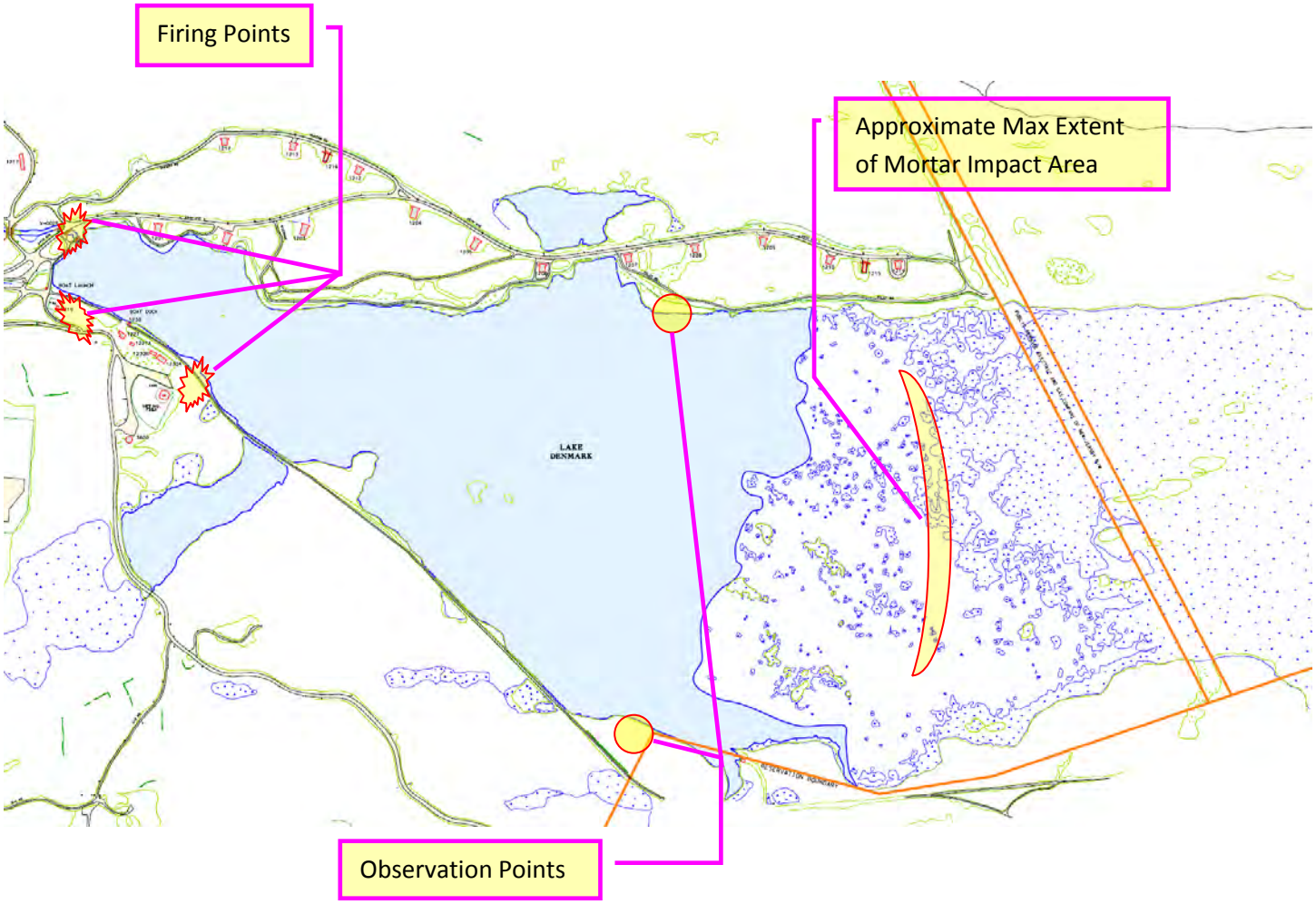


The area (the old Power House raised in 2009) was used to flash the process screens from propellant presses.

Section 8: Reservoir section of Picatinny Arsenal.



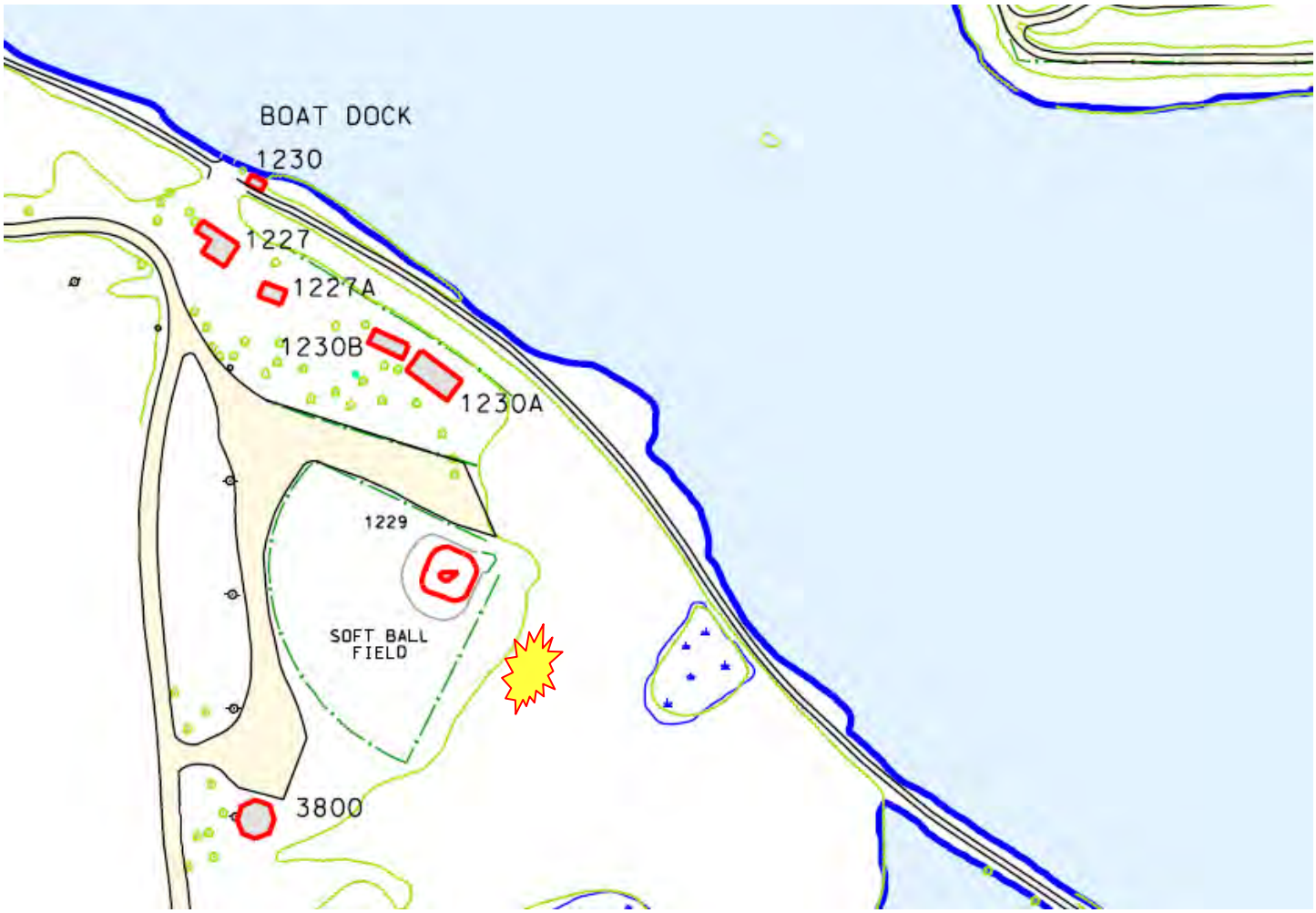
Section 9: Inactive Lake Denmark Range.



Mortar (60mm, 81mm and 4.2 inch) Firing points on the Lake Denmark Range. Mr Cooper stated the range of the mortars was limited using a combination of reduced propellant sup charges and or using only ignition carts.

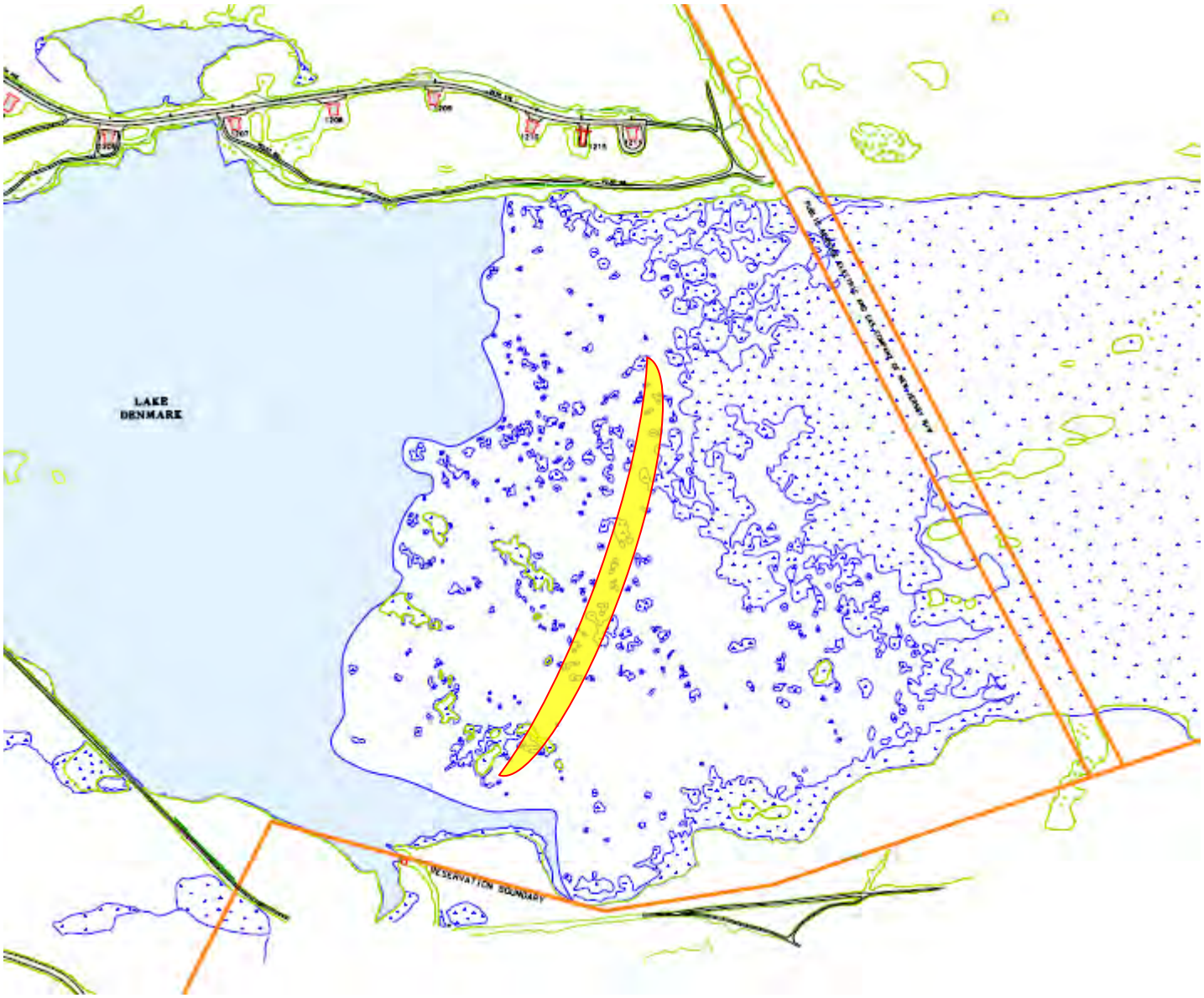
Sagger Missile Firing point on the Lake Denmark Range, Fired missiles would be recovered using boats after each firing. Mr Cooper stated the missiles would float once the motors were expended.

Approximate location of 20mm Cannon firing point. Mr Cooper stated in his time on the ranges they didn't have interaction with USN personnel and had no information on USN use of the range. To his knowledge the USN did not pass over range records for any of their operations to the Army.

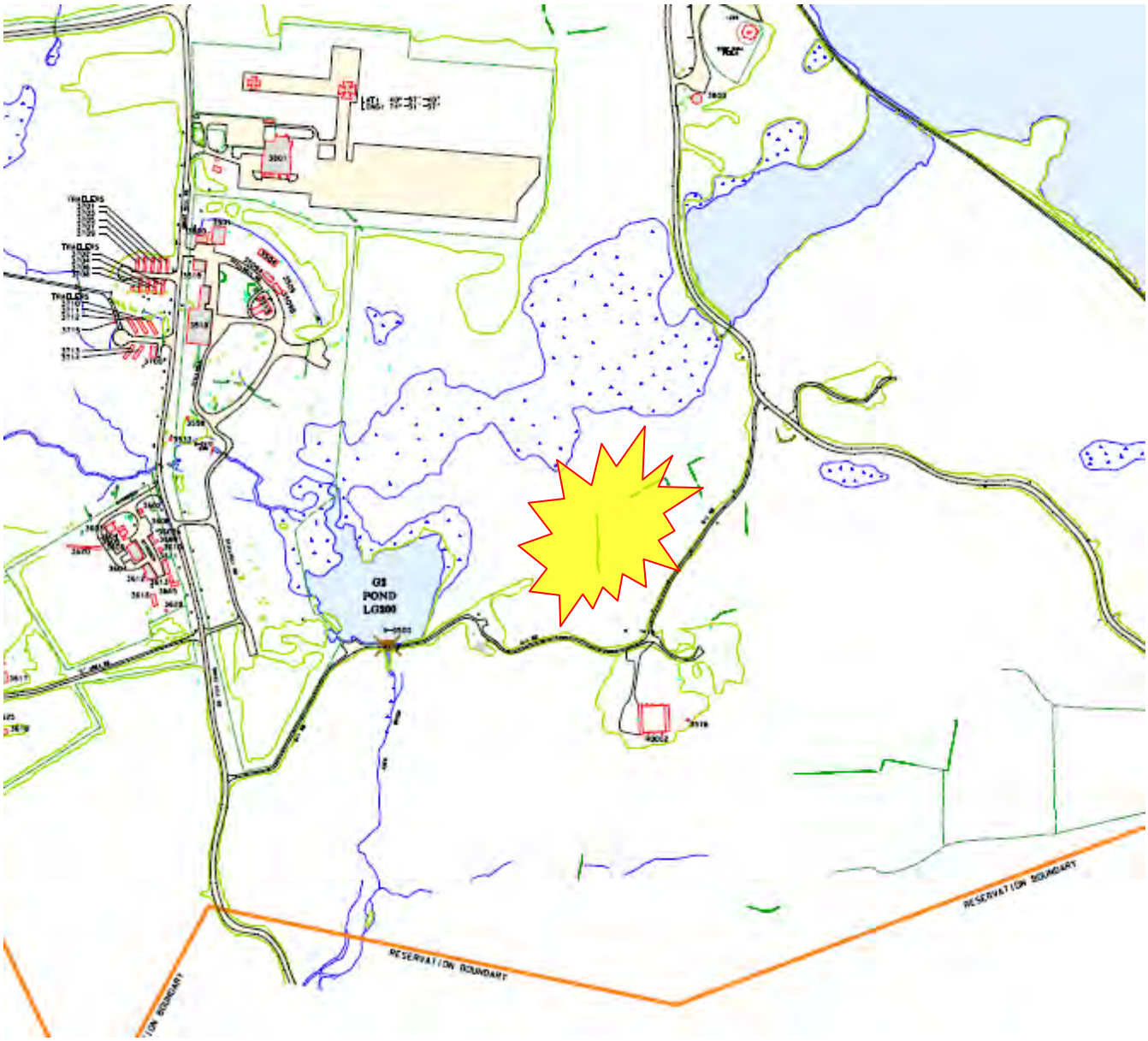


Mortar Fire Observation points on the Lake Denmark Range.

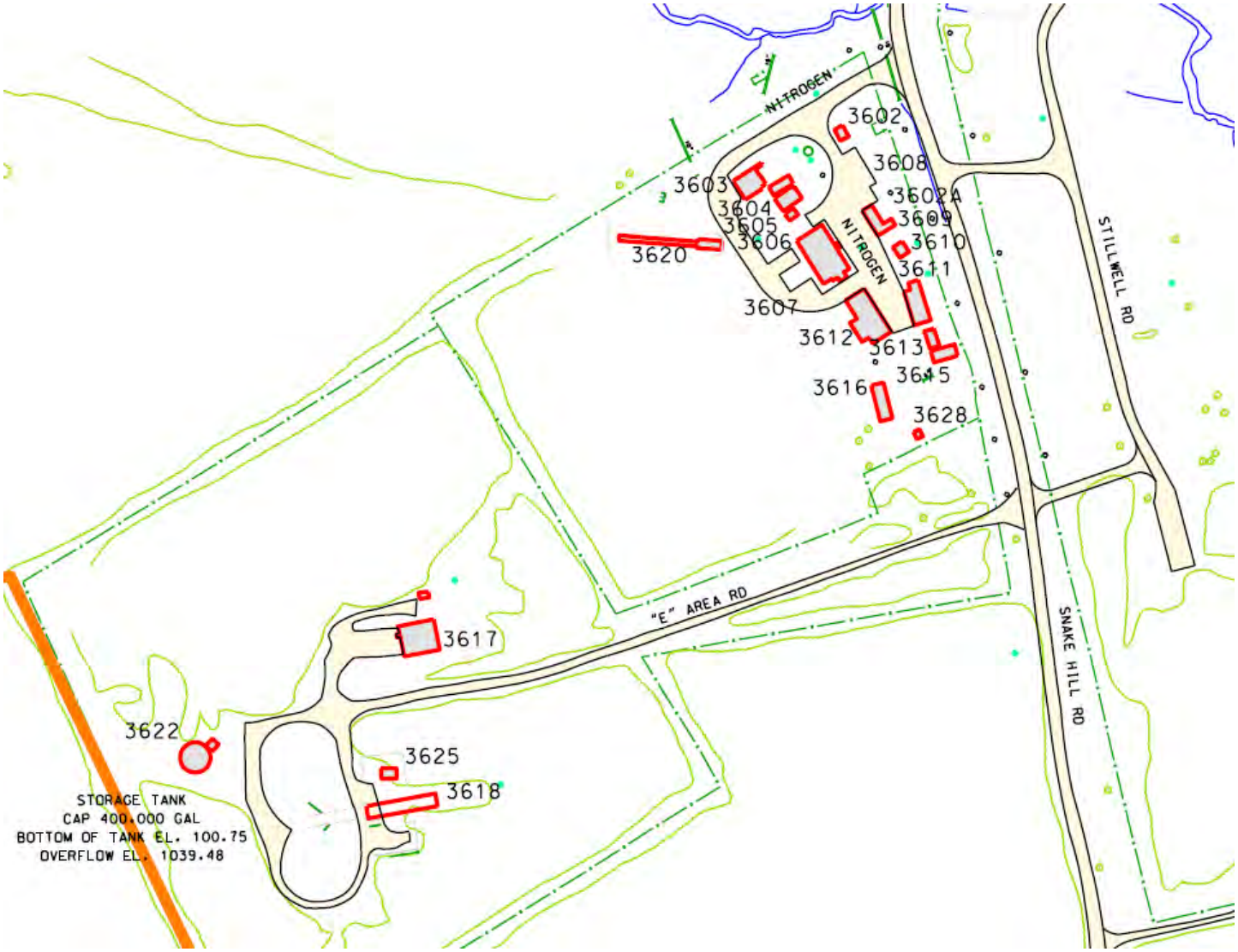
Approximate Max Extent / Mortar Impact (target area) on the Lake Denmark Range.



Section 10: G2 Area used for pyrotechnics and flairs (Artillery and Aircraft) additionally sections were used in testing the MK 19 weapons system (40mm ammunition)



Section 11: 3600 Area Operations included EOD testing at B 3628 and B 3629. B 3607 was located on the west side of B 3609 and it was used for propellant testing.



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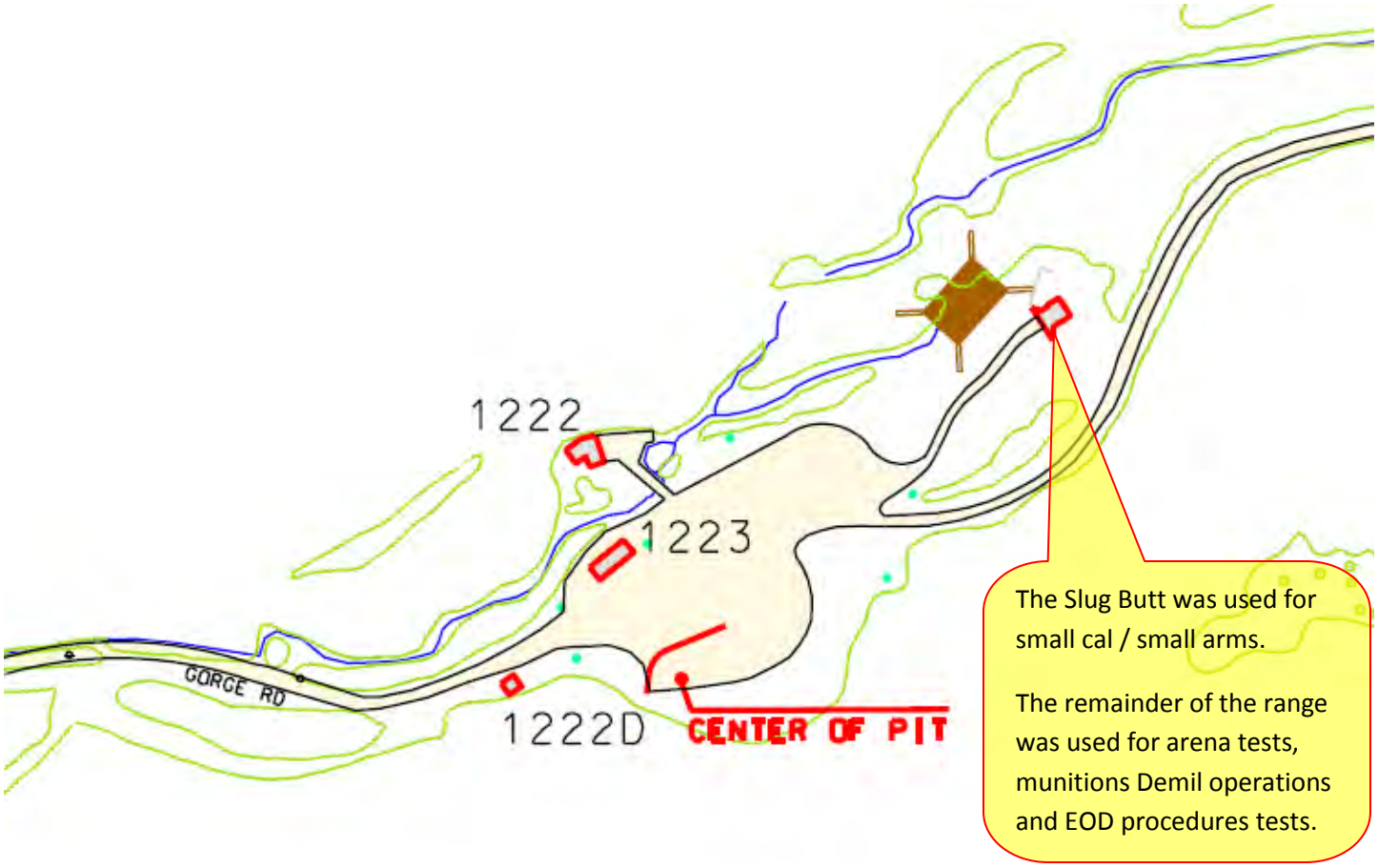
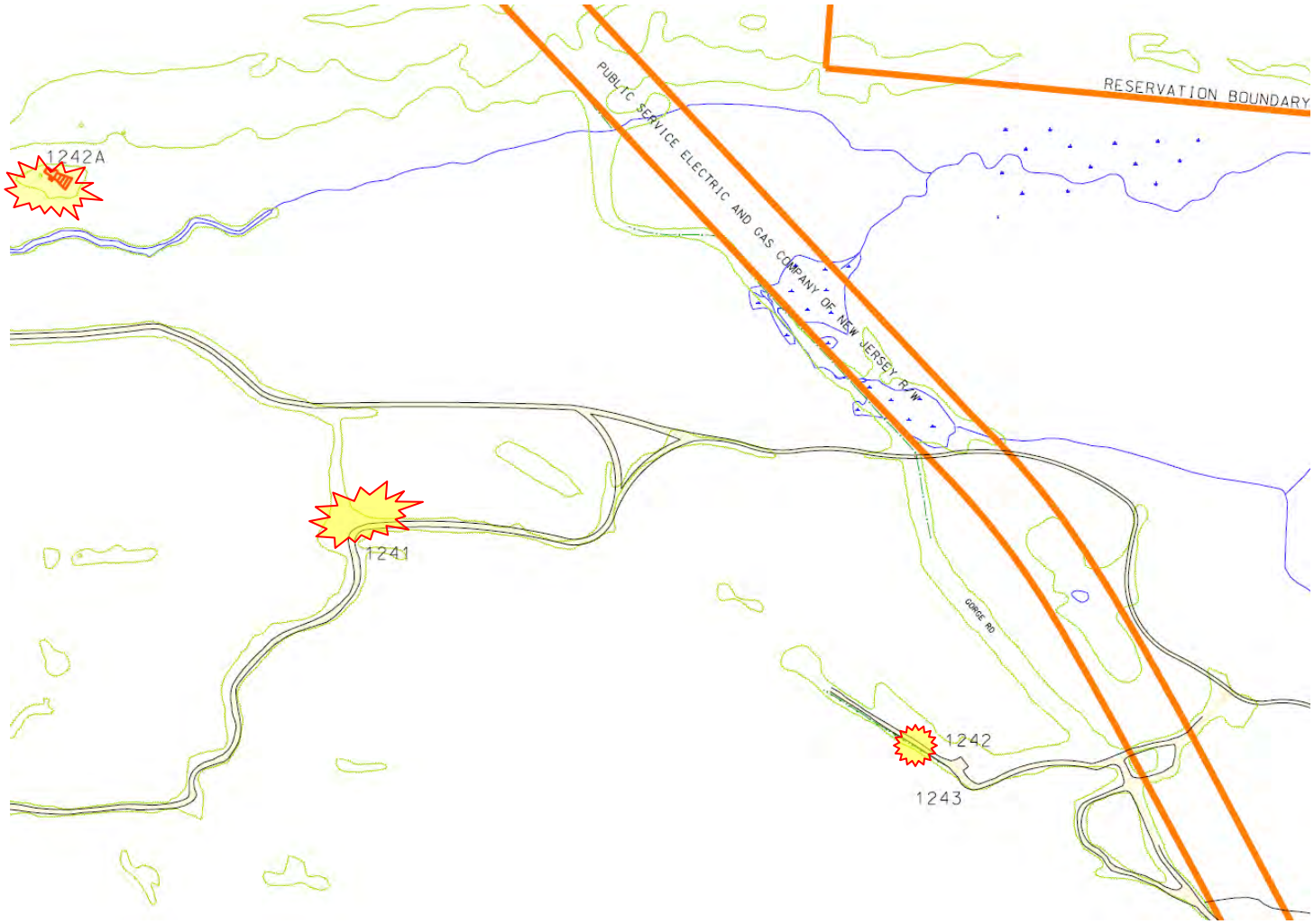
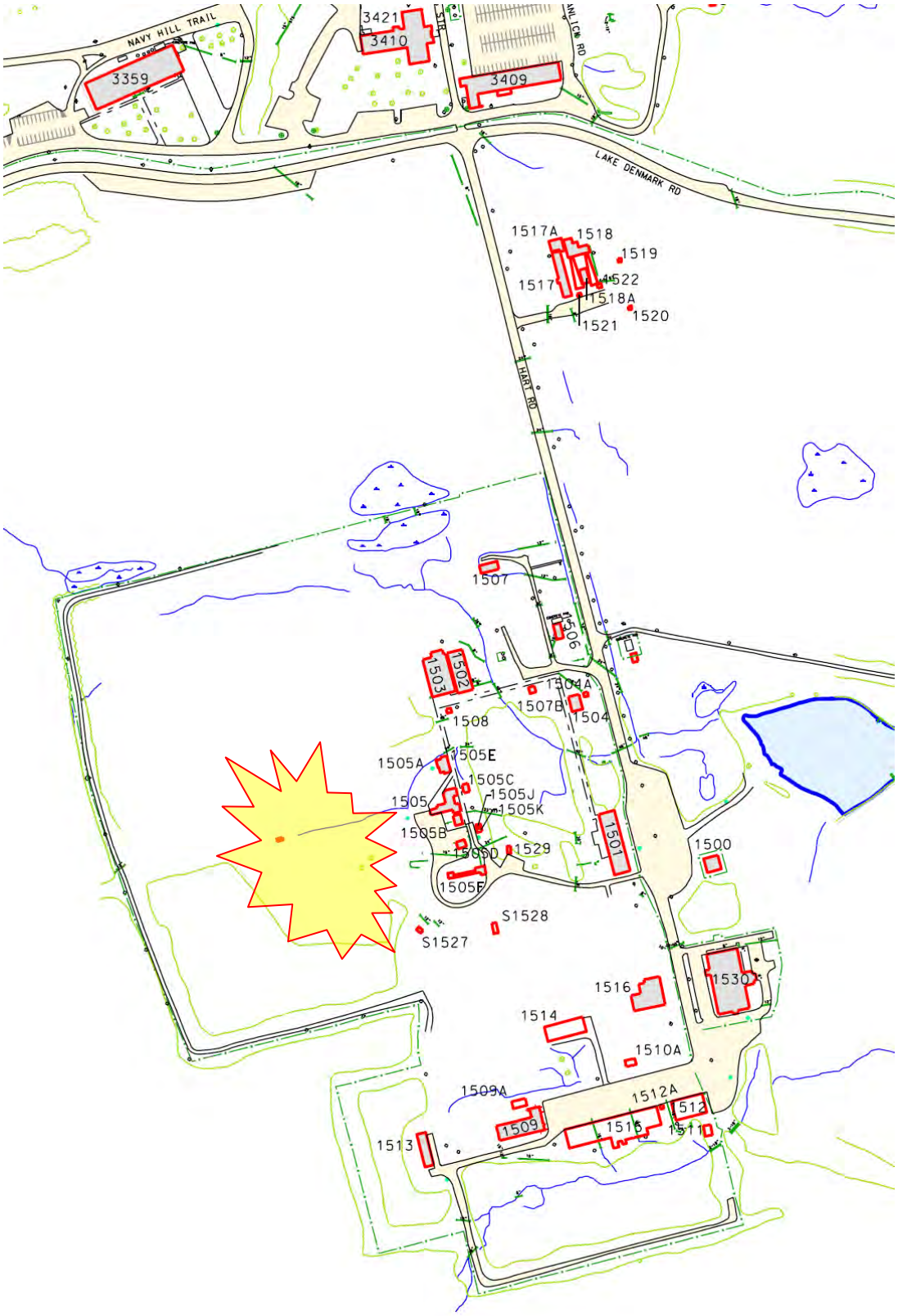
Section 12 1200 Range Area (AKA the Gorge)



The 1,000 yard and 500 meter Range were used for recoilless rifle testing. The firing point for both ranges distances was located at the North East end of the range complex B 1242 & B1243. The slug butt for the 1000 yard range was located at B 1242A and the target area for the 500 meter range was B 1241.



Section 13 1500 Range Area facilities were used for rocket motor static fire tests. Additionally test areas were used for rocket and projectile testing of expelling charges for carrier rounds (submunitions) and scatterable mines.



An interview was conducted with Mr Madison Whitehead B 806 (973)724-4529 Office Symbol: RDAR-EIL-LA on Wednesday 27 June 2012.

Mr Whitehead has worked on the Arsenal with the Mission for 35 years.

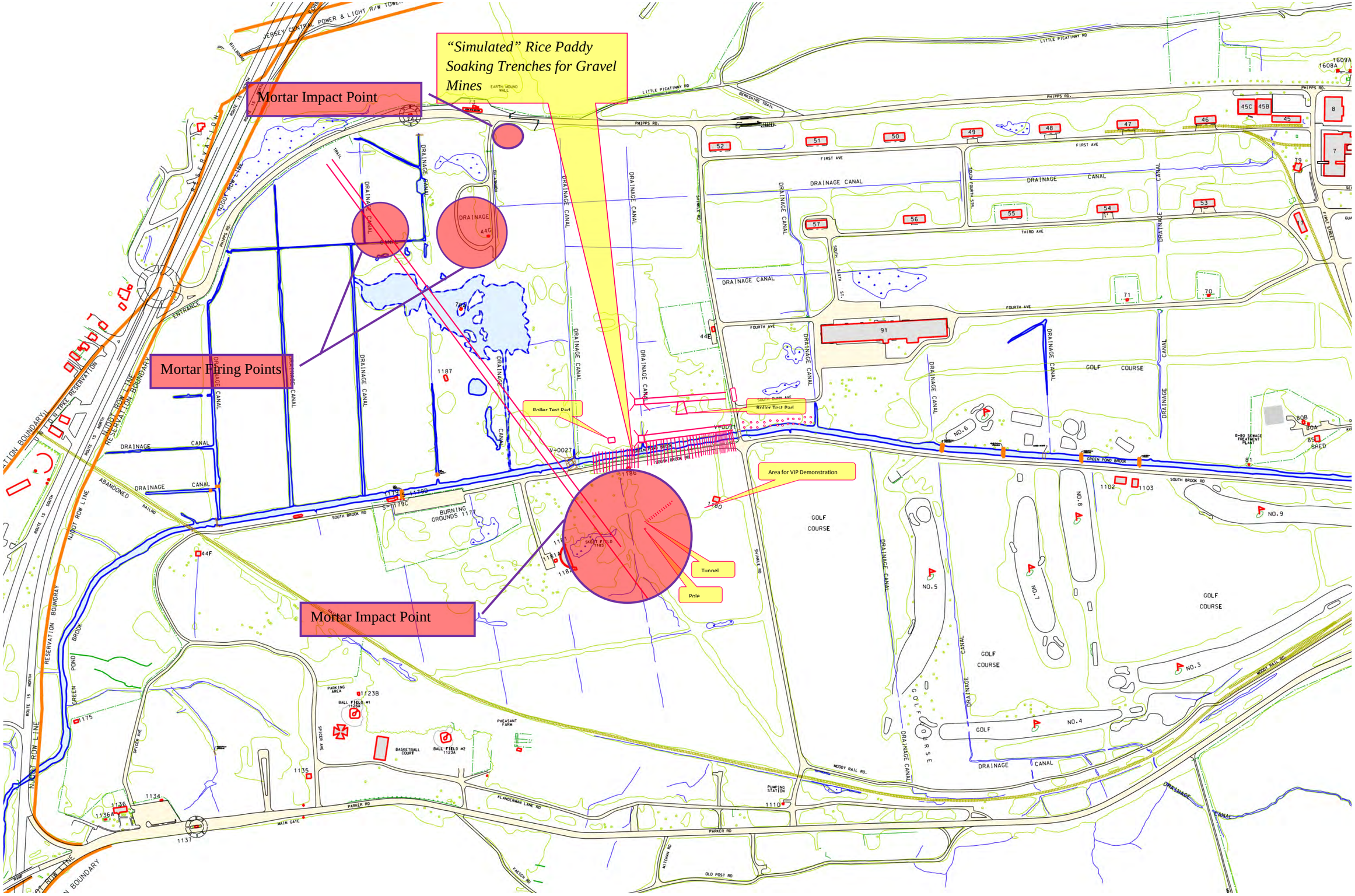
Mr Whitehead made the following observations / statements about the South West area of the Arsenal.

The areas shown with a purple boarder and red shading are areas identified with the use shown. (Two Mortar firing points and two impact points). Mr Whitehead referenced the firing point to the South of the Truck Safe Haven, North of B1179 and south west of the Scale House B73 as the primary firing point with the area by B1186 (tower) as the primary impact point.

Mr Whitehead additionally stated he was told by the old timers that anytime they went into the area of the Soaking Trenches, Mine boots were equired PPE. Mr Whitehead remembers seeing the mine boots and other equipment in the 600 area. He believed the equipment was purged sometime in the 1990's during a building cleanout.

Mr Whitehead remembered the tank range in the area of B 1180 and Tower B 1186 was used with practice minds containing spotting charges. The operation required workers to implant the mines and the tank would drive through the course to function them. Mr. Whitehead stated the mines would be planted function and recovered on a daily basis and that no items were left in place.

The interview was conducted by James B Smith 973-724-2522 MMRP Coordinator and lasted approximately 30 minutes, a map of the area was provided as reference.


"Simulated" Rice Paddy Soaking Trenches for Gravel Mines
Mortar Impact Point
Mortar Firing Points
Mortar Impact Point
Roller Test Pad
Roller Test Pad
Area for VIP Demonstration
Tunnel
Pole
DRAINAGE CANAL
GOLF COURSE
BURNING GROUNDS
PHEASANT FARM
BASKETBALL COURT
BALL FIELD #2
PUMPING STATION
PHIPPS RD.
LITTLE PICATINNY RD
SOUTH BROOK RD
PARKER RD
MAIN GATE
MOODY RAIL RD.
OLD POST RD
GREEN POND BROOK
FIRST AVE
THIRD AVE
FOURTH AVE
NO.3
NO.4
NO.5
NO.6
NO.7
NO.8
NO.9

From: Smith, James B CIV USA IMCOM [jb.smith1@us.army.mil]
Sent: Friday, May 11, 2012 5:21 PM
To: Pastor, Laura; Yonat, Christopher NAB
Cc: Gabel, Ted Mr CIV USA IMCOM; Urbiola, Christian CIV USA IMCOM; Barkocy, Christopher E Mr CIV USA IMCOM
Subject: Map (UNCLASSIFIED)
Attachments: Gravel Mine Map.pdf; RE: Skeet Area Interview (UNCLASSIFIED); Information on Little Vietnam from hunters (UNCLASSIFIED)

Follow Up Flag: Follow up
Flag Status: Flagged

Classification: UNCLASSIFIED
Caveats: FOUO

Laura,

Attached is a Site Sketch from the interview with Mr John Rigalo [redacted]. The following is my synopses of the interview make comment and or corrections as you see fit.

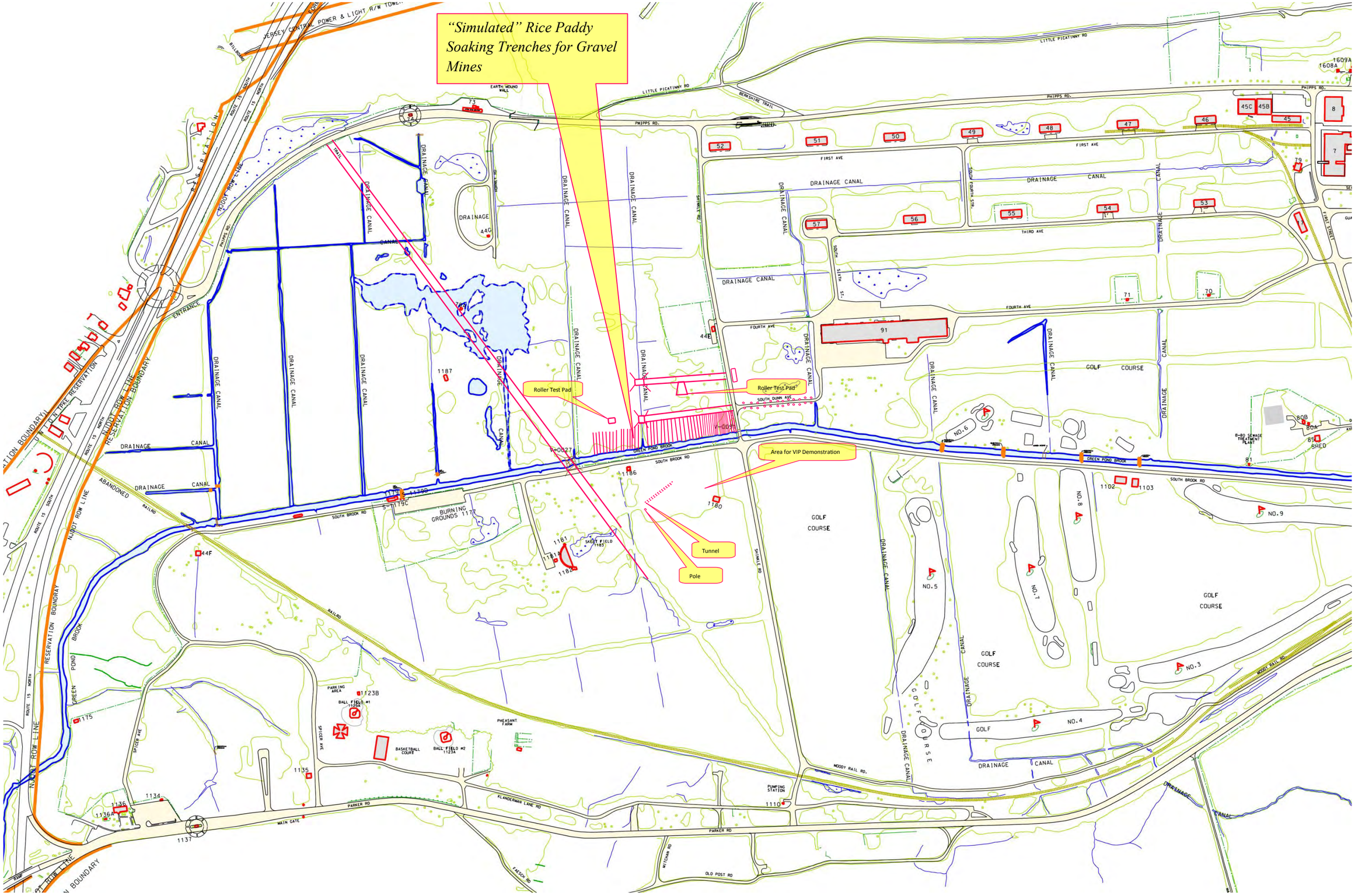
Mr Rigalo was a carpenter with the Arsenal for over 40 years and worked in all areas of the installation.

Mr Rigalo identified the area of B 1180 as a VIP demonstration area that was equipped with a pole that would be cut using primer (Det) cord and a tunnel. The "tunnel" was constructed to demonstrate how the military could clear tunnels in Vietnam using foo gas. The tunnel construction was a trench, plywood placed on top and then covered with soil. Mr Rigalo recalled tanks being used in the area and firing.

Mr Rigalo stated the "Vietnam Rice Paddy" trenches as an area used for the Gravel Mine project. He identified the Square shaped Gravel Mines from photos (both small and large versions). He stated that the soaking trenches had a mat placed in the bottom and that trays of mines would be placed into the trenches and left to soak. Later the mines would be removed and taken to test pad (two each) and workers would pass a roller over the mines to see if they would function. Mr Rigalo described the test site as a steel pad with a steel upright protective barrier for the workers safety. There was a roller device used to apply pressure to the munitions and determine the serviceability after various soak times.

Mr Rigalo did not recall mortar firing points or impact areas at the site.

JB Smith
UXO Safety / MMRP Project Coordinator
IMPI-DPW, Bldg 3002 Main Ave
Picatinny Arsenal, NJ 07806-5000


"Simulated" Rice Paddy Soaking Trenches for Gravel Mines
Roller Test Pad
Roller Test Pad
Area for VIP Demonstration
Tunnel
Pole
JERSEY CENTRAL POWER & LIGHT R/W TOWER
LITTLE PICATINNY RD
PHIPPS RD.
FIRST AVE
THIRD AVE
FOURTH AVE
DRAINAGE CANAL
GOLF COURSE
SOUTH BROOK RD
GREEN POND BROOK
NJDOT ROW LINE
RESERVATION BOUNDARY
BURNING GROUNDS
SKEET FIELD
PARKING AREA
BALL FIELD #1
BASKETBALL COURT
BALL FIELD #2
PHEASANT FARM
PUMPING STATION
PARKER RD
MAIN GATE
KLANDERMAN LANE RD
MOODY RAIL RD.
OLD POST RD
ABANDONED RAILRD
NO.3
NO.4
NO.5
NO.6
NO.7
NO.8
NO.9
SHED

May 2012, interviews with various hunters and ex-personnel.

1. Yes, I heard a credible account (fr0m a former hunter) of what went on in the area of the ditches (aka "rice paddies") back in the early 1990s when I came here and was familiarizing myself with all of PICA diverse terrain, landmarks, and features (and what to watch out for!).

2. The account to me was:

    a. Area west of the Brook where the ditches were dug is known as rice paddies and these were simulated during Vietnam War era far testing mines. I was never told what sort of mines; however the concept was to determine how viable 'the mine' would remain when submersed for extended periods (e.g., water in the ditches).

    b. The lookout tower had something to do with this era of R&D as the entire area (now re-vegetated by natural succession) west of the Brook was basically cleared and was like large expanses of fields.

    c. The area known as rice paddies is fenced off and fence crosses Brook just south of the last ditch and goes across entire width of HA 18E (E-W).

3. I have spoken with a few old timers, including hunters, trying to recall who exactly told me this account. I have determined that it most likely was a former hunter and employee (and as I was told a former Green Beret in VietNam), Gerald McCarthy. Unfortunately, he is deceased (ca. Late 1990s).

    a. Ernie Pulcini recalls the same account (most likely through Mr. McCarthy); however, he recalls items known as "button bomblets" that were being developed and tested at some point in time. He added that these devices were camouflaged in a mock vinyl/rubberized replica of an indigenous plant that grew (perhaps a weed species) in rice paddies of VietNam.

b. The concept was that these hidden bomblets could be dropped from the air and would spike or implant themselves in the rice fields. These also had a "jiggle switch" which would either arm or detonate the bomblet; or somehow sense passersby (unclear of use or purpose of the jiggle switch).

c. Ernie concurs with my recollection to the extent that the ditches and/or entire fenced area known as "rice paddies", which may extend well beyond the dead end of each ditch, was used during VietNam era for various R&D projects.

d. He explains that now that there is no Brook crossing near the south end of the series of ditches due to culverts being removed; there is a gate near the west side of Shinkle Rd. bridge that leads one onto a berm and overgrown pathway with a bridge across one or some of the ditches; again suggesting that access was provided years ago for whatever activities were transpiring in this fenced off area known as rice paddies.

e. Ernie surmises that any mortars found in the shotfall zone of the skeet range fan were most likely 'discarded there' and not impacted there?

4. I spoke to another former hunter and retiree, Henry Van Dyke Jr. who was an EOD OIC before there was a standing unit assigned here. He knew about the so-called "line of Sight Rd" which diagonally bisects HA 18E from Jct Shinkle and Klanderman Lane to a point south of the Truck Gate entrance gate. This is the perfectly straight road that is one mile long and that crossed (recently culverts were pulled so now no access to west side of) GPBrook. The road also runs across the middle of Pyro-Pond.

a. He had no recollection of the account I describe in 2 above; although he was on a "red team" for mines at one time when he was stationed here (or worked here as employee).

b. He gave me names of two men (PICA retirees) who worked on MINES before and during VietNam era. I spoke to one in PA. The other from NJ may be deceased?

5. Richard Gutter (Willow Street, PA) retired in 1981. He worked on mines R&D.

    a. He could recall the large open fields (aka rice paddies), the lookout tower, but not the ditches.

    b. He specifically recalled a project which developed mines that could be dropped into water areas (e.g. Mekong or other deltas and rivers) and designed to blow up 'junks' (vessels). His work was on a pond in this area of PICA (aka HA 18E).

    c. A full scale replica junk was built and floated on Pyro-Pond and the mine was tested and detonated successfully destroying the mock-up. Hopefully it was a one-time test with one mine, no telling what may be in the muck of the eutrophying pond today?

    d. He will ask another former retire who worked in this field (mines) named Bob Resch next week if he recalls other activities in HA 18E?

6. Mr. Gutter's account of the 'junk turned into jetsam' was corroborated by Ernie Pulcini as he recalled the account c/o Gerald McCarthy (who probably helped fabricate the mock up vessel).

7. This is all I can recollect and collect at this time. Something went on near those ditches. I have phone numbers for the individuals I spoke to as well as the (possible deceased) retiree (or his widow).

Jonathan D. Van De Venter
Natural Resources Manager
Directorate of Public Works, Environmental Affairs Office
U.S. Army Garrison, Picatinny Arsenal

APPENDIX D

INACTIVE MUNITIONS WASTE PIT MRS WHITE PAPER

PICATINNY ARSENAL
MILITARY MUNITIONS RESPONSE PROGRAM
REMEDIAL INVESTIGATION
INACTIVE MUNITIONS WASTE PIT MUNITIONS RESPONSE SITE

March 2012

The purpose of this white paper is to describe current site conditions and to evaluate historical documentation and results from recent Installation Restoration Program (IRP) studies conducted at the Inactive Munitions Waste Pit Munitions Response Site (MRS) (PICA-013-R-01). This information will be used to determine if the planned Military Munitions Response Program (MMRP) remedial investigation (RI) approach is appropriate to characterize the nature and extent of munitions and explosives of concern (MEC) and munitions constituents (MC).

Introduction

The Inactive Munitions Waste Pit MRS consists of 39 acres located in the 600 Area of Picatinny Arsenal. The MRS boundary overlaps operational range areas that will not be investigated as part of the MMRP RI (**Figure 1**). Most of the historical and current activity was performed in the central portion of the MRS near building 656. This area is labeled in **Figure 1** as the former testing area.

Site Chronology

Weston Solutions, Inc. (WESTON®) performed additional historical research of the Inactive Munitions Waste Pit MRS due to recent IRP studies and their findings. Part of the research included historical aerial photograph analysis as well as meeting with the IRP contractor to discuss their findings. The site chronology of the Inactive Munitions Waste Pit MRS is described as follows:

- Initial clearing and construction of the former testing area was performed between 1957 and 1963. The 1963 aerial photograph shows the native vegetation was removed and the area was leveled with fill (**Figure 2**). This photograph also shows a burn cage in the center of the cleared area.

- By the 1970 aerial photograph the burn cage had been moved farther east roughly 125 feet while more of the former testing area to the south had been leveled/filled (**Figure 3**).

- By the 1979 aerial photograph, the portion of the former testing area north and east of the burn cage location was slowly being reclaimed by vegetation (**Figure 4**). A gun turret is also present in this photograph and is also present today in the same location. The turret was said to have been used as a shelter. Scarring is evident north of the turret (where the burn cage was located in 1963). It appears this scarring is from material being cleared and

pushed. South and west of the turret are two berms that may be demo pit or burial locations. Building 656 is also now present in this photograph.

- The 1987 aerial photograph shows that the site has been completely leveled again (**Figure 5**). Except for the scarring near the original 1963 burn cage location, the north and eastern portion of the site has been reclaimed by native vegetation.

- By the 2002 aerial photograph a large amount of fill has been placed in the center and southern portion of the former testing area (**Figure 6**). This fill extended the former testing area southern boundary. The fill consists of blasted rock and other debris from the Building 660 construction that were deposited in the area beginning in the late 1990s. The burn cage is still present at its 1970 aerial photograph location but building 656 has been moved out of the area. A partial jet hull has been placed on the western edge of the former testing area.

- By the 2007 aerial photograph the site was covered with piles of rubble and fill, including large boulders (**Figure 7**). The burn cage, gun turret, and jet hull have not moved from their 2002 locations.

- Today we find the former testing area to be an active storage site and unregulated disposal area (see photographs below). Much of the area is covered with rubble and construction debris. Steel structures and approximately 12 artillery carriages can also be found in the area. The scarring location identified in the 1979 aerial photograph now has steel debris stacked in its center.

1. Gun turret near the former burn cage location. Construction debris and other steel structures are present.

2. Burn cage in its current location.

3. Rock and gravel piles from construction activities at 660.

4. Artillery carriages located on the southern end of the former testing area.

5. Debris piles and steel structures in the distance.

6. Steel structure within former testing area.

7. View from Berkshire Trail Road of scarring location observed in the 1979 aerial photograph. Steel debris is currently present in the center of the push out.

8. Rebar and other steel debris can be seen intermixed with rock and concrete.

Previous Site Investigations

As part of the IRP, additional investigations are being performed at the former testing area. Two locations were identified for the investigation (**Figure 8**). The first location consists of two 10-ft by 10-ft test pits (TP-1 and TP-2). The second location consists of a 60-ft-long test trench (TR-1) and a 45-ft-long test trench (TR-2). The east end of the 45-ft test trench was started in June 2011. Sampling at this location was discontinued when a gravel mine canister was recovered. TR-1 and the rest of TR-2 were never excavated due to safety concerns.

Various cultural debris and munition debris were discovered during the excavations:

- Cultural debris from TP-1 includes large, heavy-gauge aluminum sheets and a 1953 Chevy. Antidotal evidence suggests additional vehicles and parts may be buried within the former testing area.
- TP-2 cultural debris includes steel framing, a shipping container over 7 ft in length, and a garbage can. MD discovered in TP-2, include LAW rocket tubes.
- Trenching at TR-2 (also known as the 45-ft trench), found cultural debris such as metal drums. MEC was also discovered at TR-2 and included one gravel mine canister.
- Additional MD was found across the former testing area and during trenching. MD include M72 Rocket Launcher for 66-mm (LAW) rockets, CN/CS Teargas canisters, expended 40-mm grenade cartridge cases, an exploded XM31 Antitank landmine, 155-mm frag, expended MK45 aircraft flare, and expended PD fuzes.

The remaining excavations at TR-1 and TR-2 are planned for April 2012.

A total of nine soil samples were collected during these excavations. Three samples were collected from each test pit for a total of six samples. Three samples were collected from the start of TR-2. The last TR-2 soil sample was collected from the backhoe bucket following excavation of the gravel mine canister. Sample depths range from 1 ft to 24 ft below ground surface.

The primary focus of this environmental sampling effort was to detect volatile organic compounds (VOCs). Trichloroethene (TCE) was detected in one sample collected from TR-2 but all VOCs were found to below New Jersey Department of Environmental Protection (NJDEP) and Environmental Protection Agency (EPA) standards/screening levels.

Six soil samples were however analyzed for additional parameters including explosives, semi-volatile organic compounds (SVOCs), and metals. All explosives were non-detect. Other than arsenic, which was below background levels in all samples, only benzo(a)pyrene was detected above any standards/SLS (0.601 mg/kg in TP-1).

In addition to this most recent IRP data, a site inspection (SI) was performed by Dames and Moore in 1989 near the center of the Inactive Munitions Waste Pit MRS where potential

munitions testing would have occurred. According to the SI, four surface soil samples and two sediment samples were collected and analyzed for propellants, metals, and explosives. The surface soil samples were collected near the metal burn cage while the sediment samples were collected from a swampy area to the south of the burn cage. Surface soil samples contained concentrations of copper, RDX, 1,3-DNB, and 2,4-DNT that were above comparison criteria. No propellants, metals, or explosives were found in any of the sediment samples at levels above the comparison criteria.

Remedial Investigation Technical Approach

Observations from aerial photographs show that the area was used as a disposal site for the last 40 years. Layers of fill and debris have been stacked at the site and leveled since the early 1960s. Recent intrusive work shows that debris is scattered throughout the area. While munitions debris has been recovered, the MEC density has been found to be low. The boundary of the area is easily defined. The area was constructed on a slope and the fill material used during development can be traced. Cultural debris, munitions debris, and MEC are intermixed throughout the entire area.

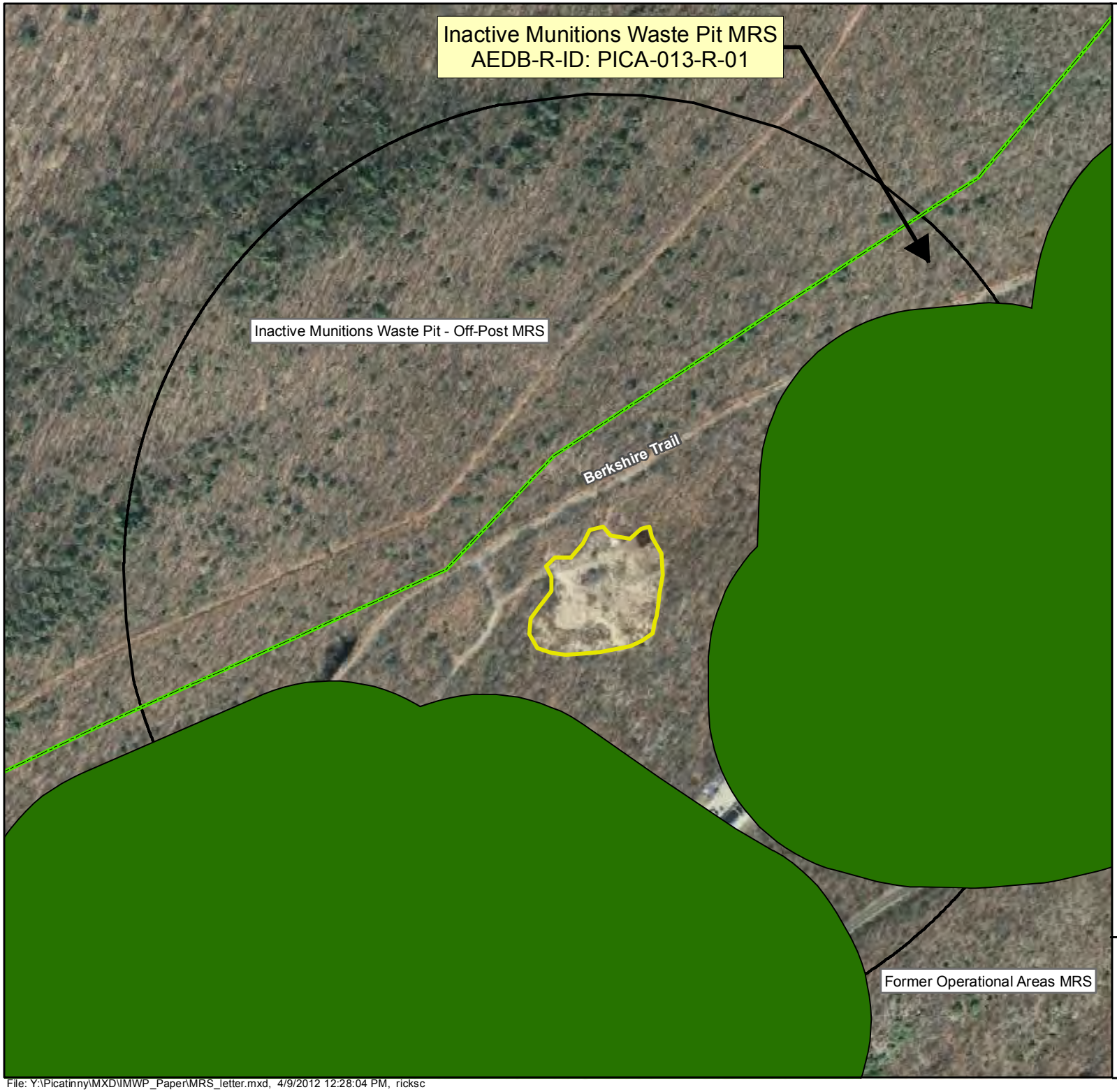
The planned technical approach was developed prior to obtaining this newly available information. During work plan development, little historical use was thought to have occurred at this MRS. The RI included the use of digital geophysical mapping (DGM) surveys to search for potential MEC disposal/burial features. Debris and steel structures currently present at the site prevent the affective use of DGM sensors. In retrospect, we find that the former testing area of the MRS was used for disposal/burial and MEC and MD is dispersed in the debris.

Based on visual and subsurface evidence collected at the site to date, additional DGM surveys are not recommended for the former testing area. The extent and the nature of the material present at this area have been determined and documented. Additional intrusive work is planned however at the TR-1 and TR-2 locations. This information will be used as part of the RI report.

DGM surveys are recommended at the scarring area observed in the 1979 aerial photograph. Steel debris within this area (**Figure 7**) should be removed prior to the surveys. EM31 transect surveys are proposed for this area to determine if burial or disposal features are present. **Figure 9** depicts the EM31 transect locations. If anomalous areas indicative of burial or disposal features are present, intrusive work would be performed at those locations to evaluate the potential MEC density. Mag & dig transects planned outside of the former testing area will also be conducted as presented in the final work plan and TPP 1 and TPP 2 meetings.

Recent soil samples collected from near surface to depths of 24 ft did not have munitions constituents (MC) detections. Explosives and metals were found to be below NJDEP and EPA screening criteria. Copper and explosives detections (RDX, 1,3-DNB, and 2,4-DNT) above screening criteria were found during a sampling event in 1989. But as previously discussed, this area has been significantly reworked since those samples were collected and analyzed. Based on

the site history, it is recommended that MC sampling be performed if a MEC release is identified during the proposed DGM surveys and potential subsequent intrusive investigations. Metals and explosives would be selected based on the MEC types identified within the disposal/burial area to determine the nature and extent of the MC.



Legend

- Installation Boundary
- Potential Former Testing Area
- Operational Range Areas
- Munitions Response Sites

Base Imagery: NJ 2007 Natural Color Imagery
Data Source: Army GIS Layers (August 2011)

Coordinate System: UTM Zone 18N
Datum: WGS84
Units: Feet

N
W E
S

350 175 0 350
Feet

Figure 1
Inactive Munitions Waste Pit MRS
Picatinny Arsenal
Morris County, New Jersey

File: Y:\Picatinny\MXD\IMWP_Paper\MRS_letter.mxd, 4/9/2012 12:28:04 PM, ricksc

Legend

- Installation Boundary
- Burn Cage Location (1963)
- Limit of Disturbance in 1963 Aerial Photo

Data Sources:
- 2008 SI Report; Army GIS Layers (August 2011)

- 1963 Aerial: US Department of Agriculture (1963-05-04 - 1963-07-19)

Coordinate System: UTM Zone 18N
Datum: WGS84
Units: Feet

N
W E
S

70 35 0 70
Feet

Figure 2
Inactive Munitions Waste Pit MRS
PICA-013-R-01
1963
Picatinny Arsenal
Morris County, New Jersey

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Legend

- Installation Boundary
- Burn Cage Current Location
- Burn Cage Location (1963)
- Limit of Disturbance in 1963 Aerial Photo

Data Sources:
- 2008 SI Report; Army GIS Layers (August 2011)

- 1970 Aerial: Private contractor

Coordinate System: UTM Zone 18N
Datum: WGS84
Units: Feet

N
W E
S

70 35 0 70
Feet

Figure 3
Inactive Munitions Waste Pit MRS
PICA-013-R-01
1970
Picatinny Arsenal
Morris County, New Jersey

File: Y:\Picatinny\MXD\IMWP_Paper\IMWP_Historic_1970_letter.mxd, 4/9/2012 12:00:51 PM, ricksc

Legend

- Installation Boundary
- Approximate Location of Berms Seen in 1979 Aerial Photo Indicating Potential Demolition Areas
- Burn Cage Current Location
- Burn Cage Location (1963)
- Limit of Disturbance in 1963 Aerial Photo

Data Sources:
- 2008 SI Report; Army GIS Layers (August 2011)

- 1979 Aerial: Private contractor

Coordinate System: UTM Zone 18N
Datum: WGS84
Units: Feet

N
W E
S

70 35 0 70
Feet

Figure 4
Inactive Munitions Waste Pit MRS
PICA-013-R-01
1979
Picatinny Arsenal
Morris County, New Jersey

File: Y:\Picatinny\MXD\IMWP_Paper\IMWP_Historic_1979_letter.mxd, 10/16/2013 11:29:56 AM, ricksc

Legend

- Installation Boundary
- Approximate Location of Berms Seen in 1979 Aerial Photo Indicating Potential Demolition Areas
- Burn Cage Current Location
- Burn Cage Location (1963)
- Limit of Disturbance in 1963 Aerial Photo

Data Sources:
- 2008 SI Report; Army GIS Layers (August 2011)

- 1987 Aerial: Private contractor

Coordinate System: UTM Zone 18N
Datum: WGS84
Units: Feet

N
W E
S

70 35 0 70
Feet

Figure 5
Inactive Munitions Waste Pit MRS
PICA-013-R-01
1987
Picatinny Arsenal
Morris County, New Jersey

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Legend

- Installation Boundary
- Approximate Location of Berms Seen in 1979 Aerial Photo Indicating Potential Demolition Areas
- Burn Cage Current Location
- Burn Cage Location (1963)
- Limit of Disturbance in 1963 Aerial Photo

Data Sources:
- 2008 SI Report; Army GIS Layers (August 2011)

- 2002 Aerial: Private contractor

Coordinate System: UTM Zone 18N
Datum: WGS84
Units: Feet

N
W E
S

70 35 0 70
Feet

Figure 6
Inactive Munitions Waste Pit MRS
PICA-013-R-01
2002
Picatinny Arsenal
Morris County, New Jersey

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Legend

- Installation Boundary
- Approximate Location of Berms Seen in 1979 Aerial Photo Indicating Potential Demolition Areas
- Burn Cage Current Location
- Burn Cage Location (1963)
- Limit of Disturbance in 1963 Aerial Photo

Data Sources:
- 2008 SI Report; Army GIS Layers (August 2011)

- 2007 Aerial: Private contractor

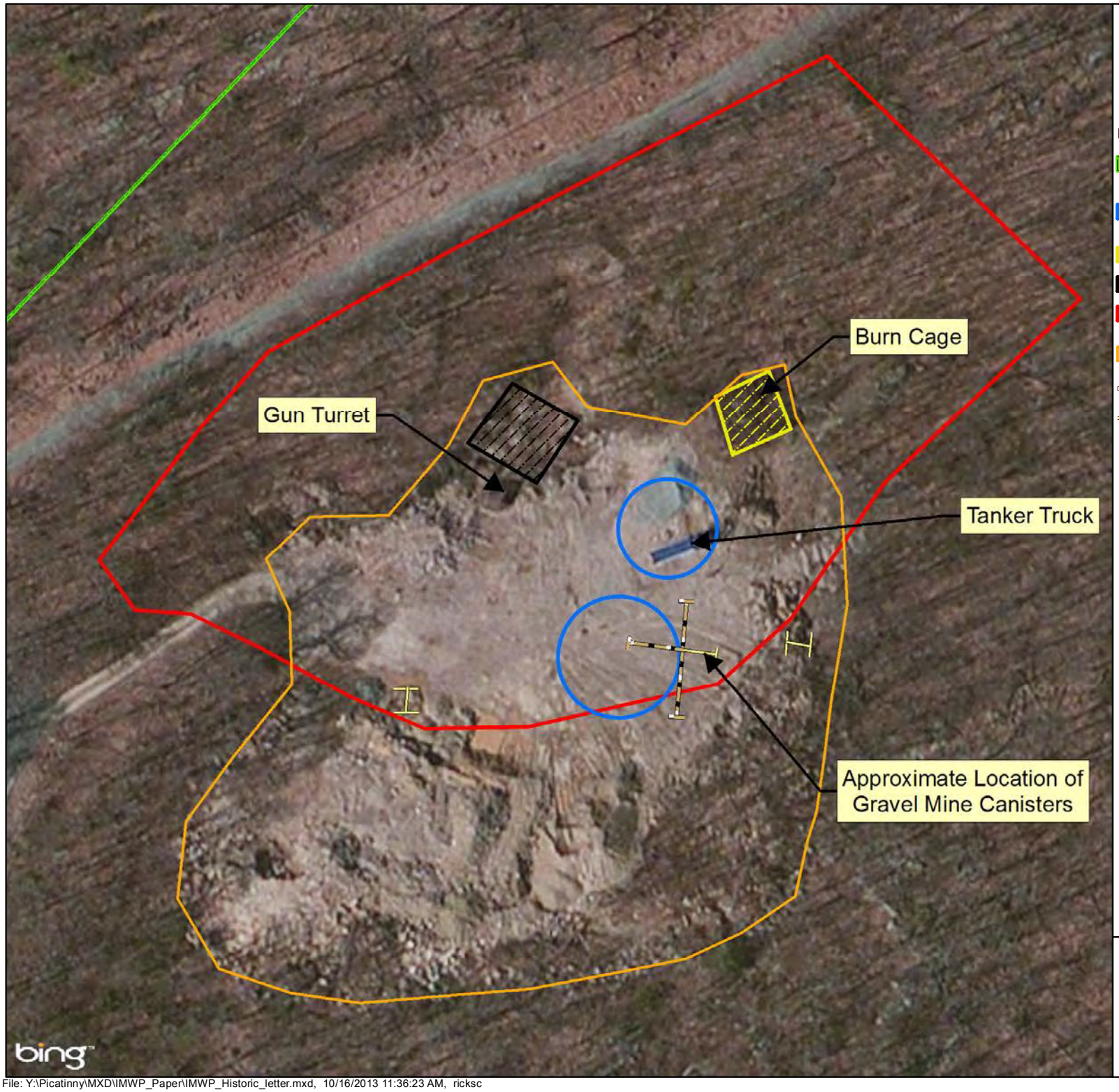
Coordinate System: UTM Zone 18N
Datum: WGS84
Units: Feet

N
W E
S

70 35 0 70
Feet

Figure 7
Inactive Munitions Waste Pit MRS
PICA-013-R-01
2007
Picatinny Arsenal
Morris County, New Jersey

File: Y:\Picatinny\MXD\IMWP_Paper\IMWP_Historic_2007_letter.mxd, 8/1/2012 10:06:35 AM, ricksc



Legend

- Installation Boundary
- Approximate Location of Berms Seen in 1979 Aerial Photo Indicating Potential Demolition Areas
- Burn Cage Current Location
- Burn Cage Location (1963)
- Limit of Disturbance in 1963 Aerial Photo
- Approximate Current Limit of Disturbance
- Shaw Proposed Test Pit Location
- Shaw Completed Test Pit Location

Base Imagery: ESRI, Bing Map Service, 2011
Data Sources: 2008 SI Report; Army GIS Layers (August 2011)

Coordinate System: UTM Zone 18N
Datum: WGS84
Units: Feet

N
W E
S

70 35 0 70
Feet

Figure 8
Inactive Munitions Waste Pit MRS
PICA-013-R-01
Burn Cage and Testing Area
Picatinny Arsenal
Morris County, New Jersey

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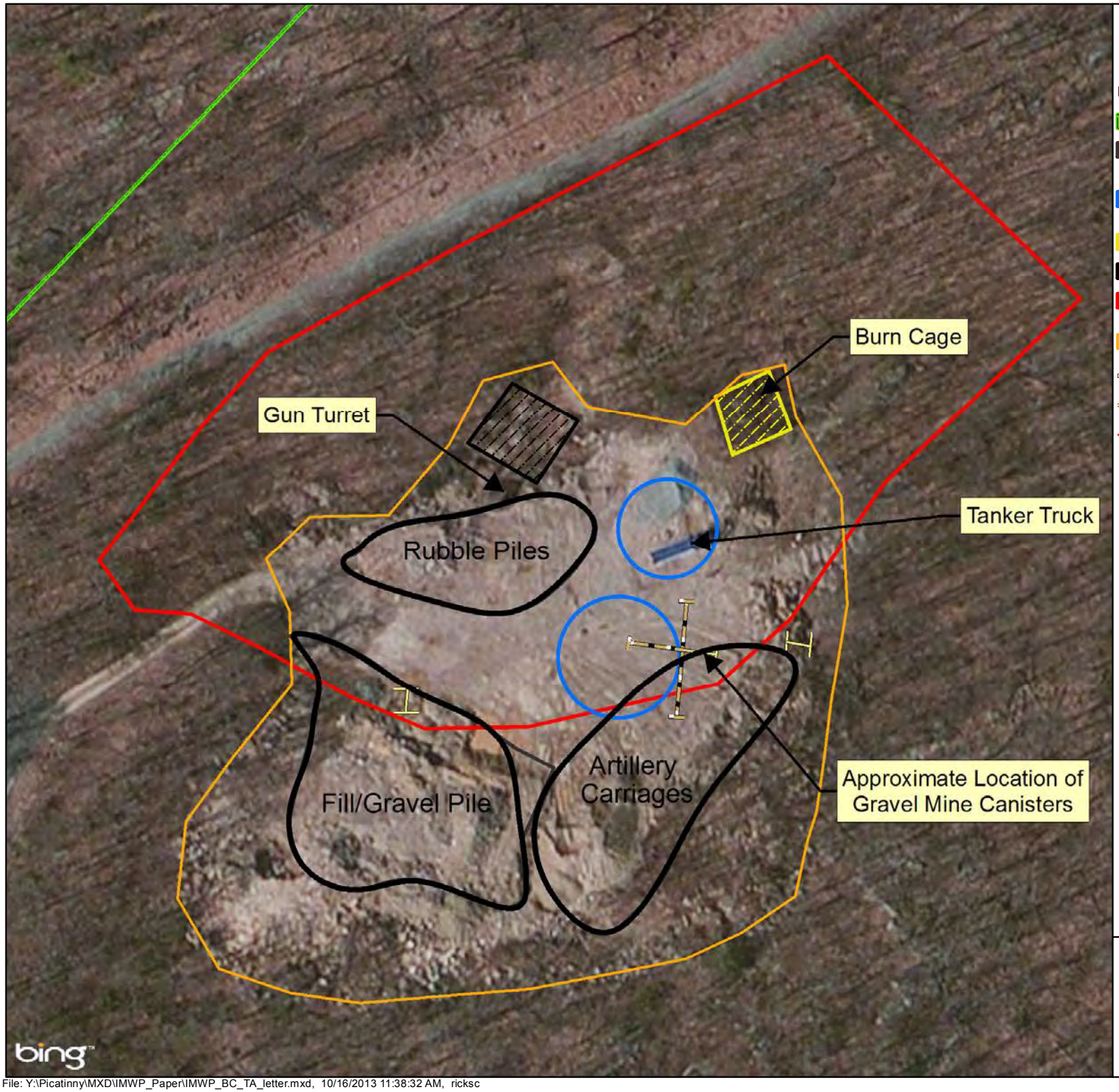

Legend

- Installation Boundary
- Approximate Obstruction Locations
- Approximate Location of Berms Seen in 1979 Aerial Photo Indicating Potential Demolition Areas
- Burn Cage Current Location
- Burn Cage Location (1963)
- Limit of Disturbance in 1963 Aerial Photo
- Approximate Current Limit of Disturbance
- Shaw Proposed Test Pit Location
- Shaw Completed Test Pit Location
- Proposed EM-31 Transects

Base Imagery: ESRI, Bing Map Service, 2011
Data Sources: 2008 SI Report; Army GIS Layers (August 2011)

Coordinate System: UTM Zone 18N
Datum: WGS84
Units: Feet

N
W E
S

70 35 0 70
Feet

Figure 9
Inactive Munitions Waste Pit MRS
PICA-013-R-01
Burn Cage and Testing Area
Picatinny Arsenal
Morris County, New Jersey

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APPENDIX E

SOIL UNIT DESCRIPTIONS

Map Unit Description (Brief, Generated)

Morris County, New Jersey

[Minor map unit components are excluded from this report]

Map unit: AdrAt - Adrian muck, 0 to 3 percent slopes, frequently flooded

Component: Adrian, frequently flooded (85%)

The Adrian, frequently flooded component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains on outwash plains. The parent material consists of herbaceous organic material over deposits of sandy outwash. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is very high. Shrink-swell potential is low. This soil is frequently flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, October, November, December. Organic matter content in the surface horizon is about 65 percent. Nonirrigated land capability classification is 7w. This soil meets hydric criteria.

Map unit: AhcBc - Alden mucky silt loam, gneiss till substratum, 0 to 8 percent slopes, extremely stony

Component: Alden, gneiss till substratum, extremely stony (90%)

The Alden, gneiss till substratum, extremely stony component makes up 90 percent of the map unit. Slopes are 0 to 8 percent. This component is on depressions, till plains. The parent material consists of silty colluvium derived from granite and gneiss over fine-loamy till derived from granite and gneiss. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, June, November, December. Organic matter content in the surface horizon is about 85 percent. Nonirrigated land capability classification is 7s. This soil meets hydric criteria.

Map unit: AnoB - Annandale gravelly loam, 3 to 8 percent slopes

Component: Annandale (85%)

The Annandale component makes up 85 percent of the map unit. Slopes are 3 to 8 percent. This component is on ground moraines on till plains. The parent material consists of fine-loamy deeply weathered granitic gneiss and/or old glacial till. Depth to a root restrictive layer, fragipan, is 24 to 36 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Map unit: AnoC - Annandale gravelly loam, 8 to 15 percent slopes

Component: Annandale (85%)

The Annandale component makes up 85 percent of the map unit. Slopes are 8 to 15 percent. This component is on ground moraines on till plains. The parent material consists of fine-loamy deeply weathered granitic gneiss and/or old glacial till. Depth to a root restrictive layer is greater than 60 inches . The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map unit: AnoC2 - Annandale gravelly loam, 8 to 15 percent slopes, eroded

Component: Annandale, eroded (85%)

The Annandale, eroded component makes up 85 percent of the map unit. Slopes are 8 to 15 percent. This component is on ridges on till plains. The parent material consists of fine-loamy deeply weathered granitic gneiss and/or old glacial till. Depth to a root restrictive layer, fragipan, is 18 to 30 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map Unit Description (Brief, Generated)

Morris County, New Jersey

Map unit: BabA - Bartley loam, 0 to 3 percent slopes

Component: Bartley (85%)

The Bartley component makes up 85 percent of the map unit. Slopes are 0 to 3 percent. This component is on terraces on till plains. The parent material consists of over residuum weathered from limestone and/or residuum weathered from gneiss. Depth to a root restrictive layer, fragipan, is 24 to 36 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 33 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Map unit: BabB - Bartley loam, 3 to 8 percent slopes

Component: Bartley (85%)

The Bartley component makes up 85 percent of the map unit. Slopes are 3 to 8 percent. This component is on terraces on till plains. The parent material consists of pre-Wisconsin glacial loamy drift and/or colluvium. Depth to a root restrictive layer, fragipan, is 24 to 36 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 33 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Map unit: BacC - Bartley gravelly loam, 8 to 15 percent slopes

Component: Bartley (85%)

The Bartley component makes up 85 percent of the map unit. Slopes are 8 to 15 percent. This component is on terraces on till plains. The parent material consists of over residuum weathered from limestone and/or residuum weathered from gneiss. Depth to a root restrictive layer is greater than 60 inches . The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 33 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map unit: BhdAt - Biddeford silt loam, 0 to 2 percent slopes, frequently flooded

Component: Biddeford, frequently flooded (85%)

The Biddeford, frequently flooded component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on river valleys on outwash plains. The parent material consists of silty and clayey glaciomarine deposits and/or glaciolacustrine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is very high. Shrink-swell potential is low. This soil is frequently flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, June, October, November, December. Organic matter content in the surface horizon is about 64 percent. Nonirrigated land capability classification is 6w. This soil meets hydric criteria.

Map unit: BhnB - Birdsboro silt loam, 2 to 6 percent slopes

Component: Birdsboro (85%)

The Birdsboro component makes up 85 percent of the map unit. Slopes are 2 to 6 percent. This component is on stream terraces on piedmonts. The parent material consists of old alluvium derived from sandstone and siltstone and/or shale. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Map unit: BohB - Boonton moderately well drained gravelly loam, 3 to 8 percent slopes

Component: Boonton, moderately well drained (85%)

The Boonton, moderately well drained component makes up 85 percent of the map unit. Slopes are 3 to 8 percent. This component is on ground moraines on till plains. The parent material consists of coarse-loamy basal till derived from basalt. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Map unit: BohC - Boonton moderately well drained gravelly loam, 8 to 15 percent slopes

Component: Boonton, moderately well drained (85%)

The Boonton, moderately well drained component makes up 85 percent of the map unit. Slopes are 8 to 15 percent. This component is on ground moraines on till plains. The parent material consists of coarse-loamy basal till derived from basalt. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map unit: BOXCC - Boonton and Haledon soils, 8 to 15 percent slopes, extremely stony

Component: Boonton, moderately well drained, extremely stony (45%)

The Boonton, moderately well drained, extremely stony component makes up 45 percent of the map unit. Slopes are 8 to 15 percent. This component is on ground moraines on till plains. The parent material consists of coarse-loamy till derived from basalt. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Component: Haledon, extremely stony (40%)

The Haledon, extremely stony component makes up 40 percent of the map unit. Slopes are 8 to 15 percent. This component is on ground moraines on till plains. The parent material consists of coarse-loamy till derived from basalt. Depth to a root restrictive layer, fragipan, is 16 to 30 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Map unit: CakA - Califon loam, 0 to 3 percent slopes

Component: Califon (85%)

The Califon component makes up 85 percent of the map unit. Slopes are 0 to 3 percent. This component is on flats on till plains. The parent material consists of till derived from gneiss and/or colluvium derived from gneiss. Depth to a root restrictive layer, fragipan, is 20 to 30 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 18 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Map unit: CakB - Califon loam, 3 to 8 percent slopes

Component: Califon (85%)

The Califon component makes up 85 percent of the map unit. Slopes are 3 to 8 percent. This component is on flats on till plains. The parent material consists of till derived from gneiss and/or colluvium derived from gneiss. Depth to a root restrictive layer, fragipan, is 20 to 30 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 18 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Map unit: CakBb - Califon loam, 0 to 8 percent slopes, very stony

Component: Califon, very stony (85%)

The Califon, very stony component makes up 85 percent of the map unit. Slopes are 0 to 8 percent. This component is on flats on till plains. The parent material consists of till derived from gneiss and/or colluvium derived from gneiss. Depth to a root restrictive layer, fragipan, is 17 to 30 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 18 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria.

Map unit: CakC - Califon loam, 8 to 15 percent slopes

Component: Califon (85%)

The Califon component makes up 85 percent of the map unit. Slopes are 8 to 15 percent. This component is on flats on till plains. The parent material consists of till derived from gneiss and/or colluvium derived from gneiss. Depth to a root restrictive layer, fragipan, is 20 to 30 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 18 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map unit: CakCb - Califon loam, 8 to 15 percent slopes

Component: Califon, very stony (85%)

The Califon, very stony component makes up 85 percent of the map unit. Slopes are 8 to 15 percent. This component is on flats on till plains. The parent material consists of till derived from gneiss and/or colluvium derived from gneiss. Depth to a root restrictive layer, fragipan, is 20 to 30 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 18 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria.

Map unit: CanB - Califon gravelly loam, 3 to 8 percent slopes

Component: Califon (85%)

The Califon component makes up 85 percent of the map unit. Slopes are 3 to 8 percent. This component is on flats on till plains. The parent material consists of till derived from gneiss and/or colluvium derived from gneiss. Depth to a root restrictive layer, fragipan, is 20 to 30 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 18 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Map unit: CanBb - Califon gravelly loam, 0 to 8 percent slopes, very stony

Component: Califon, very stony (85%)

The Califon, very stony component makes up 85 percent of the map unit. Slopes are 3 to 8 percent. This component is on flats on till plains. The parent material consists of till derived from gneiss and/or colluvium derived from gneiss. Depth to a root restrictive layer, fragipan, is 20 to 30 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 18 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria.

Map unit: CapfB - Califon variant loam, 3 to 8 percent slopes

Component: Califon variant, friable subsoil (85%)

The Califon variant, friable subsoil component makes up 85 percent of the map unit. Slopes are 3 to 8 percent. This component is on drainageways, hillslopes, piedmonts. The parent material consists of till derived from gneiss and/or colluvium derived from gneiss. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 18 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Map unit: CarAt - Carlisle muck, 0 to 2 percent slopes, frequently flooded

Component: Carlisle, frequently flooded (85%)

The Carlisle, frequently flooded component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains on outwash plains. The parent material consists of herbaceous organic material and/or woody organic material. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is very high. Shrink-swell potential is low. This soil is frequently flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, June, November, December. Organic matter content in the surface horizon is about 84 percent. Nonirrigated land capability classification is 3w. This soil meets hydric criteria.

Map unit: CatbA - Catden mucky peat, 0 to 2 percent slopes

Component: Catden (85%)

The Catden component makes up 85 percent of the map unit. Slopes are 0 to 3 percent. This component is on depressions, till plains. The parent material consists of herbaceous organic material and/or woody organic material. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is very high. Shrink-swell potential is low. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, June, September, October, November, December. Organic matter content in the surface horizon is about 85 percent. Nonirrigated land capability classification is 5w. This soil meets hydric criteria.

Map unit: ChkC - Chatfield-Hollis-Rock outcrop complex, 0 to 15 percent slopes

Component: Chatfield (45%)

The Chatfield component makes up 45 percent of the map unit. Slopes are 0 to 15 percent. This component is on ground moraines, mountains. The parent material consists of coarse-loamy till derived from granite and gneiss. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 85 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Map Unit Description (Brief, Generated)

Morris County, New Jersey

Map unit: ChkC - Chatfield-Hollis-Rock outcrop complex, 0 to 15 percent slopes

Component: Hollis (30%)

The Hollis component makes up 30 percent of the map unit. Slopes are 0 to 15 percent. This component is on ground moraines, mountains. The parent material consists of loamy till derived from granite and gneiss. Depth to a root restrictive layer, bedrock, lithic, is 10 to 20 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 85 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Component: Rock outcrop (25%)

Generated brief soil descriptions are created for major soil components. The Rock outcrop is a miscellaneous area.

Map unit: ChkE - Chatfield-Hollis-Rock outcrop complex, 35 to 60 percent slopes

Component: Chatfield (45%)

The Chatfield component makes up 45 percent of the map unit. Slopes are 35 to 60 percent. This component is on ground moraines, mountains. The parent material consists of coarse-loamy till derived from granite and gneiss. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 85 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Component: Hollis (30%)

The Hollis component makes up 30 percent of the map unit. Slopes are 35 to 60 percent. This component is on ground moraines, mountains. The parent material consists of loamy till derived from granite and gneiss. Depth to a root restrictive layer, bedrock, lithic, is 10 to 20 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 85 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Component: Rock outcrop (20%)

Generated brief soil descriptions are created for major soil components. The Rock outcrop is a miscellaneous area.

Map unit: CoaA - Cokesbury loam, 0 to 3 percent slopes

Component: Cokesbury (85%)

The Cokesbury component makes up 85 percent of the map unit. Slopes are 0 to 3 percent. This component is on drainageways on till plains. The parent material consists of till derived from gneiss and/or colluvium derived from gneiss. Depth to a root restrictive layer, fragipan, is 20 to 30 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, May, June, September, October, November, December. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria.

Map unit: CoaBb - Cokesbury loam, 0 to 8 percent slopes, very stony

Component: Cokesbury, very stony (85%)

The Cokesbury, very stony component makes up 85 percent of the map unit. Slopes are 0 to 8 percent. This component is on drainageways on till plains. The parent material consists of till derived from gneiss and/or colluvium derived from gneiss. Depth to a root restrictive layer, fragipan, is 20 to 26 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, May, June, September, October, November, December. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 7s. This soil meets hydric criteria.

Map unit: CoaBc - Cokesbury loam, 0 to 8 percent slopes, extremely stony

Component: Cokesbury, extremely stony (85%)

The Cokesbury, extremely stony component makes up 85 percent of the map unit. Slopes are 0 to 8 percent. This component is on drainageways on till plains. The parent material consists of till derived from gneiss and/or colluvium derived from gneiss. Depth to a root restrictive layer, fragipan, is 20 to 30 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, May, June, September, October, November, December. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 7s. This soil meets hydric criteria.

Map unit: CobA - Cokesbury gravelly loam, 0 to 3 percent slopes

Component: Cokesbury (85%)

The Cokesbury component makes up 85 percent of the map unit. Slopes are 0 to 3 percent. This component is on drainageways on till plains. The parent material consists of till derived from gneiss and/or colluvium derived from gneiss. Depth to a root restrictive layer, fragipan, is 20 to 30 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, May, June, September, October, November, December. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria.

Map unit: CobB - Cokesbury gravelly loam, 3 to 8 percent slopes

Component: Cokesbury (85%)

The Cokesbury component makes up 85 percent of the map unit. Slopes are 3 to 8 percent. This component is on drainageways on till plains. The parent material consists of till derived from gneiss and/or colluvium derived from gneiss. Depth to a root restrictive layer, fragipan, is 20 to 30 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, May, June, September, October, November, December. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria.

Map unit: EkhhB - Ellington loamy substratum variant fine sandy loam, 3 to 8 percent slopes

Component: Ellington variant, loamy subsoil (85%)

The Ellington variant, loamy subsoil component makes up 85 percent of the map unit. Slopes are 3 to 8 percent. This component is on outwash terraces on piedmonts. The parent material consists of coarse-loamy residuum weathered from basalt and/or sandstone and shale. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March, April, November, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Map unit: EkhhC - Ellington loamy substratum variant fine sandy loam, 8 to 15 percent slopes

Component: Ellington variant, loamy subsoil (85%)

The Ellington variant, loamy subsoil component makes up 85 percent of the map unit. Slopes are 8 to 15 percent. This component is on outwash terraces on piedmonts. The parent material consists of coarse-loamy residuum weathered from basalt and/or sandstone and shale. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March, April, November, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map unit: EkhhD - Ellington loamy substratum variant fine sandy loam, 15 to 25 percent slopes

Component: Ellington variant, loamy subsoil (85%)

The Ellington variant, loamy subsoil component makes up 85 percent of the map unit. Slopes are 15 to 25 percent. This component is on outwash terraces on piedmonts. The parent material consists of coarse-loamy residuum weathered from basalt and/or sandstone and shale. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March, April, November, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Map unit: FmhAs - Fluvaquents, loamy, 0 to 3 percent slopes, occasionally flooded

Component: Fluvaquents, occasionally flooded (90%)

The Fluvaquents, occasionally flooded component makes up 90 percent of the map unit. Slopes are 0 to 3 percent. This component is on flood plains on river valleys. The parent material consists of recent alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, May, September, October, November, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3w. This soil meets hydric criteria.

Map unit: FmhAt - Fluvaquents, loamy, 0 to 3 percent slopes, frequently flooded

Component: Fluvaquents, loamy, frequently flooded (80%)

The Fluvaquents, loamy, frequently flooded component makes up 80 percent of the map unit. Slopes are 0 to 3 percent. This component is on flood plains on river valleys. The parent material consists of recent alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is frequently flooded. It is frequently ponded. A seasonal zone of water saturation is at 15 inches during January, February, March, April, May, September, October, November, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 5w. This soil does not meet hydric criteria.

Map unit: FNAT - Fluvaquents and udifluvents, 0 to 3 percent slopes, frequently flooded

Component: Fluvaquents, wet, frequently flooded (55%)

The Fluvaquents, wet, frequently flooded component makes up 55 percent of the map unit. Slopes are 0 to 3 percent. This component is on flood plains on river valleys. The parent material consists of sandy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 5w. This soil meets hydric criteria.

Map unit: FNAT - Fluvaquents and udifluvents, 0 to 3 percent slopes, frequently flooded

Component: Udifluvents, loamy, frequently flooded (45%)

The Udifluvents, loamy, frequently flooded component makes up 45 percent of the map unit. Slopes are 0 to 3 percent. This component is on flood plains on river valleys. The parent material consists of sandy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Map unit: GkaoB - Gladstone gravelly loam, 3 to 8 percent slopes

Component: Gladstone (85%)

The Gladstone component makes up 85 percent of the map unit. Slopes are 3 to 8 percent. This component is on hills on piedmonts. The parent material consists of loamy colluvium derived from granite and gneiss and/or loamy residuum weathered from granite and gneiss. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Map unit: GkaoC - Gladstone gravelly loam, 8 to 15 percent slopes

Component: Gladstone (85%)

The Gladstone component makes up 85 percent of the map unit. Slopes are 8 to 15 percent. This component is on hills on piedmonts. The parent material consists of loamy colluvium derived from granite and gneiss and/or loamy residuum weathered from granite and gneiss. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map unit: GkaoC2 - Gladstone gravelly loam, 8 to 15 percent slopes, eroded

Component: Gladstone, eroded (85%)

The Gladstone, eroded component makes up 85 percent of the map unit. Slopes are 8 to 15 percent. This component is on hills on piedmonts. The parent material consists of loamy colluvium derived from granite and gneiss and/or loamy residuum weathered from granite and gneiss. Depth to a root restrictive layer, bedrock, paralithic, is 40 to 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map unit: GkaoD - Gladstone gravelly loam, 15 to 25 percent slopes

Component: Gladstone (85%)

The Gladstone component makes up 85 percent of the map unit. Slopes are 15 to 25 percent. This component is on hills on piedmonts. The parent material consists of loamy colluvium derived from granite and gneiss and/or loamy residuum weathered from granite and gneiss. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Map unit: GKAPCC - Gladstone and Parker soils, 8 to 15 percent slopes, extremely stony

Component: Gladstone, extremely stony (45%)

The Gladstone, extremely stony component makes up 45 percent of the map unit. Slopes are 8 to 15 percent. This component is on hills on piedmonts. The parent material consists of loamy colluvium derived from granite and gneiss and/or loamy residuum weathered from granite and gneiss. Depth to a root restrictive layer, bedrock, paralithic, is 40 to 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Component: Parker, extremely stony (35%)

The Parker, extremely stony component makes up 35 percent of the map unit. Slopes are 8 to 15 percent. This component is on hills on piedmonts. The parent material consists of residuum weathered from granite and gneiss. Depth to a root restrictive layer, bedrock, lithic, is 40 to 60 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Map unit: HanB - Haledon silt loam, 3 to 8 percent slopes

Component: Haledon (85%)

The Haledon component makes up 85 percent of the map unit. Slopes are 3 to 8 percent. This component is on ground moraines on till plains. The parent material consists of coarse-loamy basal till derived from basalt. Depth to a root restrictive layer, fragipan, is 24 to 36 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 8 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 81 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map unit: HanC - Haledon silt loam, 8 to 15 percent slopes

Component: Haledon (85%)

The Haledon component makes up 85 percent of the map unit. Slopes are 8 to 15 percent. This component is on ground moraines on till plains. The parent material consists of coarse-loamy basal till derived from basalt. Depth to a root restrictive layer, fragipan, is 16 to 30 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map unit: HhmBc - Hibernia loam, 0 to 8 percent slopes, extremely stony

Component: Hibernia, extremely stony (80%)

The Hibernia, extremely stony component makes up 80 percent of the map unit. Slopes are 0 to 8 percent. This component is on till plains, ground moraines. The parent material consists of coarse-loamy till derived from granite and gneiss and/or coarse-loamy till derived from limestone, sandstone, and shale and/or coarse-loamy till derived from quartzite. Depth to a root restrictive layer, fragipan, is 18 to 36 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 11 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 85 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Map unit: HhmCa - Hibernia loam, 3 to 15 percent slopes, stony

Component: Hibernia, stony (85%)

The Hibernia, stony component makes up 85 percent of the map unit. Slopes are 3 to 15 percent. This component is on ground moraines on mountains. The parent material consists of coarse-loamy colluvium and/or till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 4s. This soil does not meet hydric criteria.

Map unit: HhmDb - Hibernia loam, 15 to 25 percent slopes, very stony

Component: Hibernia, very stony (85%)

The Hibernia, very stony component makes up 85 percent of the map unit. Slopes are 15 to 25 percent. This component is on ground moraines, mountains. The parent material consists of coarse-loamy colluvium and/or till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria.

Map unit: HncD - Hollis-Rock outcrop-Chatfield complex, 15 to 35 percent slopes

Component: Hollis (45%)

The Hollis component makes up 45 percent of the map unit. Slopes are 15 to 35 percent. This component is on mountains, ground moraines. The parent material consists of loamy till derived from granite and gneiss. Depth to a root restrictive layer, bedrock, lithic, is 10 to 20 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 85 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Component: Rock outcrop (30%)

Generated brief soil descriptions are created for major soil components. The Rock outcrop is a miscellaneous area.

Component: Chatfield (20%)

The Chatfield component makes up 20 percent of the map unit. Slopes are 15 to 35 percent. This component is on mountains, ground moraines. The parent material consists of coarse-loamy till derived from granite and gneiss. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 85 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Map unit: HokCg - Holyoke silt loam, 0 to 15 percent slopes, rocky

Component: Holyoke, rocky (85%)

The Holyoke, rocky component makes up 85 percent of the map unit. Slopes are 5 to 15 percent. This component is on ground moraines, till plains. The parent material consists of loamy till derived from basalt. Depth to a root restrictive layer, bedrock, lithic, is 10 to 20 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria.

Map Unit Description (Brief, Generated)

Morris County, New Jersey

Map unit: HomE - Holyoke-Rock outcrop complex, 15 to 45 percent slopes

Component: Holyoke (60%)

The Holyoke component makes up 60 percent of the map unit. Slopes are 15 to 35 percent. This component is on till plains, ground moraines. The parent material consists of loamy till derived from basalt. Depth to a root restrictive layer, bedrock, lithic, is 10 to 20 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Component: Rock outcrop (40%)

Generated brief soil descriptions are created for major soil components. The Rock outcrop is a miscellaneous area.

Map unit: KkrE - Klinesville channery silt loam, 25 to 45 percent slopes

Component: Klinesville (85%)

The Klinesville component makes up 85 percent of the map unit. Slopes are 25 to 45 percent. This component is on hills on piedmonts. The parent material consists of fine-loamy residuum weathered from shale. Depth to a root restrictive layer, bedrock, paralithic, is 10 to 20 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria.

Map unit: MknA - Minoa silt loam, 0 to 3 percent slopes

Component: Minoa (85%)

The Minoa component makes up 85 percent of the map unit. Slopes are 0 to 3 percent. This component is on glacial lakes on outwash plains. The parent material consists of coarse-loamy lagoonal deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during February, March, April. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3w. This soil does not meet hydric criteria.

Map unit: MknB - Minoa silt loam, 3 to 8 percent slopes

Component: Minoa (85%)

The Minoa component makes up 85 percent of the map unit. Slopes are 3 to 8 percent. This component is on glacial lakes on outwash plains. The parent material consists of coarse-loamy lagoonal deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during February, March, April. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3w. This soil does not meet hydric criteria.

Map unit: NehDb - Neshaminy silt loam, 12 to 18 percent slopes, very stony

Component: Neshaminy, very stony (85%)

The Neshaminy, very stony component makes up 85 percent of the map unit. Slopes are 12 to 18 percent. This component is on hills on piedmonts. The parent material consists of dark colored basic rocks or loamy residuum weathered from diabase. Depth to a root restrictive layer, bedrock, lithic, is 54 to 66 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria.

Map unit: NekB - Neshaminy gravelly silt loam, 2 to 6 percent slopes

Component: Neshaminy (85%)

The Neshaminy component makes up 85 percent of the map unit. Slopes are 2 to 6 percent. This component is on hills on piedmonts. The parent material consists of dark colored basic rocks or loamy residuum weathered from diabase. Depth to a root restrictive layer, bedrock, lithic, is 48 to 99 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Map unit: NekC - Neshaminy gravelly silt loam, 6 to 12 percent slopes

Component: Neshaminy (85%)

The Neshaminy component makes up 85 percent of the map unit. Slopes are 6 to 12 percent. This component is on hills on piedmonts. The parent material consists of dark colored basic rocks or loamy residuum weathered from diabase. Depth to a root restrictive layer, bedrock, lithic, is 48 to 99 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map unit: NerB - Netcong gravelly sandy loam, 3 to 8 percent slopes

Component: Netcong (85%)

The Netcong component makes up 85 percent of the map unit. Slopes are 3 to 8 percent. This component is on ground moraines on till plains. The parent material consists of coarse-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Map unit: NerC - Netcong gravelly sandy loam, 8 to 15 percent slopes

Component: Netcong (85%)

The Netcong component makes up 85 percent of the map unit. Slopes are 8 to 15 percent. This component is on ground moraines on till plains. The parent material consists of coarse-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map unit: OtsC - Otisville gravelly loamy sand, 3 to 15 percent slopes

Component: Otisville (85%)

The Otisville component makes up 85 percent of the map unit. Slopes are 3 to 15 percent. This component is on kames on outwash plains. The parent material consists of glaciofluvial deposits derived from sandstone and shale. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Map unit: OtsD - Otisville gravelly loamy sand, 15 to 25 percent slopes

Component: Otisville (85%)

The Otisville component makes up 85 percent of the map unit. Slopes are 15 to 25 percent. This component is on kames on outwash plains. The parent material consists of glaciofluvial deposits derived from sandstone and shale. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria.

Map unit: PafAt - Palms muck, 0 to 2 percent slopes, frequenty flooded

Component: Palms, frequently flooded (85%)

The Palms, frequently flooded component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains on outwash plains. The parent material consists of woody organic material. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is very high. Shrink-swell potential is low. This soil is frequently flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, October, November, December. Organic matter content in the surface horizon is about 85 percent. Nonirrigated land capability classification is 7w. This soil meets hydric criteria.

Map unit: PaoC - Parker gravelly sandy loam, 3 to 15 percent slopes

Component: Parker (85%)

The Parker component makes up 85 percent of the map unit. Slopes are 3 to 15 percent. This component is on knobs on mountains. The parent material consists of residuum weathered from granite and gneiss. Depth to a root restrictive layer, bedrock, lithic, is 48 to 99 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map unit: PapD - Parker very gravelly sandy loam, 15 to 25 percent slopes

Component: Parker (85%)

The Parker component makes up 85 percent of the map unit. Slopes are 15 to 25 percent. This component is on hills on piedmonts. The parent material consists of residuum weathered from granite and gneiss. Depth to a root restrictive layer, bedrock, lithic, is 48 to 99 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria.

Map unit: ParC - Parker cobbly loam, 3 to 15 percent slopes

Component: Parker (85%)

The Parker component makes up 85 percent of the map unit. Slopes are 3 to 15 percent. This component is on hills on piedmonts. The parent material consists of residuum weathered from granite and gneiss. Depth to a root restrictive layer, bedrock, lithic, is 35 to 47 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 4s. This soil does not meet hydric criteria.

Map unit: ParD - Parker cobbly loam, 15 to 25 percent slopes

Component: Parker (85%)

The Parker component makes up 85 percent of the map unit. Slopes are 15 to 25 percent. This component is on hills on piedmonts. The parent material consists of residuum weathered from granite and gneiss. Depth to a root restrictive layer, bedrock, lithic, is 36 to 47 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria.

Map unit: ParEe - Parker cobbly loam, 18 to 40 percent slopes, extremely stony

Component: Parker, extremely stony (85%)

The Parker, extremely stony component makes up 85 percent of the map unit. Slopes are 18 to 40 percent. This component is on hills on piedmonts. The parent material consists of residuum weathered from granite and gneiss. Depth to a root restrictive layer, bedrock, lithic, is 39 to 47 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Map unit: PauCc - Parker-Gladstone complex, 0 to 15 percent slopes, extremely stony

Component: Parker, extremely stony (60%)

The Parker, extremely stony component makes up 60 percent of the map unit. Slopes are 0 to 15 percent. This component is on hills on piedmonts. The parent material consists of residuum weathered from granite and gneiss. Depth to a root restrictive layer, bedrock, lithic, is 48 to 99 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Component: Gladstone, extremely stony (40%)

The Gladstone, extremely stony component makes up 40 percent of the map unit. Slopes are 0 to 15 percent. This component is on hills on piedmonts. The parent material consists of loamy colluvium derived from granite and gneiss and/or loamy residuum weathered from granite and gneiss. Depth to a root restrictive layer is greater than 60 inches . The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Map unit: PauDc - Parker-Gladstone complex, 15 to 25 percent slopes, extremely stony (SSURGO1)

Component: Parker, extremely stony (60%)

The Parker, extremely stony component makes up 60 percent of the map unit. Slopes are 15 to 25 percent. This component is on hills on piedmonts. The parent material consists of residuum weathered from granite and gneiss. Depth to a root restrictive layer, bedrock, lithic, is 48 to 99 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Map unit: PauDc - Parker-Gladstone complex, 15 to 25 percent slopes, extremely stony (SSURGO1)

Component: Gladstone, extremely stony (40%)

The Gladstone, extremely stony component makes up 40 percent of the map unit. Slopes are 15 to 25 percent. This component is on hills on piedmonts. The parent material consists of loamy colluvium derived from granite and gneiss and/or loamy residuum weathered from granite and gneiss. Depth to a root restrictive layer is greater than 60 inches . The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Map unit: PawE - Parker-Rock outcrop complex, 25 to 45 percent slopes

Component: Parker, extremely stony (75%)

The Parker, extremely stony component makes up 75 percent of the map unit. Slopes are 25 to 45 percent. This component is on knobs on mountains. The parent material consists of residuum weathered from granite and gneiss. Depth to a root restrictive layer, bedrock, lithic, is 48 to 99 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Component: Rock outcrop (25%)

Generated brief soil descriptions are created for major soil components. The Rock outcrop is a miscellaneous area.

Map unit: PbpAt - Parsippany silt loam, 0 to 3 percent slopes, frequently flooded

Component: Parsippany, frequently flooded (90%)

The Parsippany, frequently flooded component makes up 90 percent of the map unit. Slopes are 0 to 3 percent. This component is on lake terraces on outwash plains. The parent material consists of fine glaciolacustrine deposits derived from basalt, shale and granitic gneiss material. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is moderate. This soil is frequently flooded. It is frequently ponded. A seasonal zone of water saturation is at 3 inches during January, February, March, April, May, October, November, December. Organic matter content in the surface horizon is about 85 percent. Nonirrigated land capability classification is 5w. This soil meets hydric criteria.

Map unit: PbphAt - Parsippany silt loam, sandy loam substratum, 0 to 3 percent slopes, frequently flooded

Component: Parsippany, sandy loam substratum, frequently floode (85%)

The Parsippany, sandy loam substratum, frequently floode component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains on outwash plains. The parent material consists of fine glaciolacustrine deposits derived from basalt, shale and granitic gneiss material. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is frequently flooded. It is frequently ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, May, October, November, December. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria.

Map unit: PdtB - Pattenburg gravelly loam, 3 to 8 percent slopes

Component: Pattenburg (85%)

The Pattenburg component makes up 85 percent of the map unit. Slopes are 2 to 6 percent. This component is on hills on piedmonts. The parent material consists of reddish quartoze coarse-loamy residuum weathered from conglomerate and/or fanglomerate. Depth to a root restrictive layer, bedrock, lithic, is 54 to 66 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Map unit: PdtC - Pattenburg gravelly loam, 8 to 15 percent slopes

Component: Pattenburg (85%)

The Pattenburg component makes up 85 percent of the map unit. Slopes are 6 to 12 percent. This component is on hills on piedmonts. The parent material consists of reddish quartoze coarse-loamy residuum weathered from conglomerate and/or fanglomerate. Depth to a root restrictive layer, bedrock, lithic, is 39 to 51 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map unit: PeoB - Penn channery silt loam, 3 to 8 percent slopes

Component: Penn (85%)

The Penn component makes up 85 percent of the map unit. Slopes are 2 to 6 percent. This component is on hills on piedmonts. The parent material consists of fine-loamy residuum weathered from acid reddish shale, siltstone, and fine-grain sandstone. Depth to a root restrictive layer, bedrock, paralithic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Map unit: PeoC - Penn channery silt loam, 8 to 15 percent slopes

Component: Penn (85%)

The Penn component makes up 85 percent of the map unit. Slopes are 6 to 12 percent. This component is on hills on piedmonts. The parent material consists of fine-loamy residuum weathered from acid reddish shale, siltstone, and fine-grain sandstone. Depth to a root restrictive layer, bedrock, paralithic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map unit: PgmD - Penn-Klinesville channery silt loams, 12 to 18 percent slopes

Component: Penn (60%)

The Penn component makes up 60 percent of the map unit. Slopes are 12 to 18 percent. This component is on hills on piedmonts. The parent material consists of fine-loamy residuum weathered from acid reddish shale, siltstone, and fine-grain sandstone. Depth to a root restrictive layer, bedrock, paralithic, is 30 to 42 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria.

Map Unit Description (Brief, Generated)

Morris County, New Jersey

Map unit: PgmD - Penn-Klinesville channery silt loams, 12 to 18 percent slopes

Component: Klinesville (40%)

The Klinesville component makes up 40 percent of the map unit. Slopes are 12 to 18 percent. This component is on hills, piedmonts. The parent material consists of fine-loamy residuum weathered from acid reddish shale, siltstone, and fine-grain sandstone. Depth to a root restrictive layer, bedrock, paralithic, is 10 to 20 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria.

Map unit: PHG - Pits, sand and gravel

Component: Pits, sand and gravel (100%)

Generated brief soil descriptions are created for major soil components. The Pits, sand and gravel is a miscellaneous area.

Map unit: PohA - Pompton sandy loam, 0 to 3 percent slopes

Component: Pompton (80%)

The Pompton component makes up 80 percent of the map unit. Slopes are 0 to 3 percent. This component is on outwash plains on delta plains. The parent material consists of coarse-loamy outwash derived from gneiss, sandsatone and basalt. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 15 inches during January, February, March, April, May, September, October, November, December. Organic matter content in the surface horizon is about 73 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Map unit: PohB - Pompton sandy loam, 3 to 8 percent slopes

Component: Pompton (85%)

The Pompton component makes up 85 percent of the map unit. Slopes are 3 to 8 percent. This component is on outwash plains on delta plains. The parent material consists of coarse-loamy outwash derived from gneiss, sandsatone and basalt. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, May, October, November, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Map unit: PrkAt - Preakness sandy loam, 0 to 3 percent slopes, frequently flooded

Component: Preakness, poorly drained (90%)

The Preakness, poorly drained component makes up 90 percent of the map unit. Slopes are 0 to 3 percent. This component is on outwash plains on outwash plains. The parent material consists of coarse-loamy outwash derived from granite and some basalt. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is frequently flooded. It is frequently ponded. A seasonal zone of water saturation is at 4 inches during January, February, March, April, May, October, November, December. Organic matter content in the surface horizon is about 77 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria.

Map Unit Description (Brief, Generated)

Morris County, New Jersey

Map unit: PrsdAt - Preakness dark surface variant sandy loam, 0 to 3 percent slopes, frequently flooded

Component: Preakness variant, very poorly drained, frequently flooded (90%)

The Preakness variant, very poorly drained, frequently flooded component makes up 90 percent of the map unit. Slopes are 0 to 3 percent. This component is on outwash terraces, outwash plains on outwash plains. The parent material consists of coarse-loamy outwash derived from granite and some basalt. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is frequently flooded. It is rarely ponded. A seasonal zone of water saturation is at 4 inches during January, February, March, April, May, October, November, December. Organic matter content in the surface horizon is about 55 percent. Nonirrigated land capability classification is 6w. This soil meets hydric criteria.

Map unit: QY - Quarry

Component: Pits, quarry (100%)

Generated brief soil descriptions are created for major soil components. The Pits, quarry is a miscellaneous area.

Map unit: RerB7 - Reaville deep variant channery silt loam, 0 to 6 percent slopes

Component: Reaville variant, deep (85%)

The Reaville variant, deep component makes up 85 percent of the map unit. Slopes are 0 to 6 percent. This component is on interfluves on piedmonts. The parent material consists of interbedded fine-grained fine-loamy residuum weathered from sandstone and siltstone and/or shale. Depth to a root restrictive layer, bedrock, paralithic, is 40 to 51 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, May, October, November, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Map unit: RkgBb - Ridgebury loam, 0 to 8 percent slopes, very stony

Component: Ridgebury, very stony (85%)

The Ridgebury, very stony component makes up 85 percent of the map unit. Slopes are 0 to 3 percent. This component is on depressions on till plains. The parent material consists of loamy till derived from granite and/or gneiss and/or schist. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 3 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 7s. This soil meets hydric criteria.

Map unit: RkgBc - Ridgebury loam, 0 to 8 percent slopes, extremely stony

Component: Ridgebury, extremely stony (85%)

The Ridgebury, extremely stony component makes up 85 percent of the map unit. Slopes are 0 to 8 percent. This component is on depressions on till plains. The parent material consists of loamy till derived from granite and/or gneiss and/or schist. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 3 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 7s. This soil meets hydric criteria.

Map Unit Description (Brief, Generated)

Morris County, New Jersey

Map unit: RksA - Riverhead gravelly sandy loam, 0 to 3 percent slopes

Component: Riverhead (85%)

The Riverhead component makes up 85 percent of the map unit. Slopes are 0 to 3 percent. This component is on moraines on outwash plains. The parent material consists of glaciofluvial deposits derived from granite and gneiss. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 1. This soil does not meet hydric criteria.

Map unit: RksB - Riverhead gravelly sandy loam, 3 to 8 percent slopes

Component: Riverhead (85%)

The Riverhead component makes up 85 percent of the map unit. Slopes are 3 to 8 percent. This component is on moraines on outwash plains. The parent material consists of glaciofluvial deposits derived from granite and gneiss. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Map unit: RksC - Riverhead gravelly sandy loam, 8 to 15 percent slopes

Component: Riverhead (85%)

The Riverhead component makes up 85 percent of the map unit. Slopes are 8 to 15 percent. This component is on moraines on outwash plains. The parent material consists of glaciofluvial deposits derived from granite and gneiss. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map unit: RksnB - Riverhead variant gravelly sandy loam, 3 to 8 percent slopes

Component: Riverhead variant, neutral (85%)

The Riverhead variant, neutral component makes up 85 percent of the map unit. Slopes are 2 to 8 percent. This component is on moraines on outwash plains. The parent material consists of glaciofluvial deposits derived from granite and gneiss. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Map unit: RNAAC - Rock outcrop

Component: Rock outcrop (100%)

Generated brief soil descriptions are created for major soil components. The Rock outcrop is a miscellaneous area.

Map unit: RNRE - Rock outcrop-Rockaway complex, 15 to 35 percent slopes

Component: Rock outcrop (60%)

Generated brief soil descriptions are created for major soil components. The Rock outcrop is a miscellaneous area.

Map unit: RNRE - Rock outcrop-Rockaway complex, 15 to 35 percent slopes

Component: Rockaway, moderately well drained, extremely stony (40%)

The Rockaway, moderately well drained, extremely stony component makes up 40 percent of the map unit. Slopes are 15 to 35 percent. This component is on ground moraines on till plains. The parent material consists of coarse-loamy till derived from granite and gneiss. Depth to a root restrictive layer, fragipan, is 18 to 30 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during February, March, April, May. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Map unit: RobCb - Rockaway sandy loam, 8 to 15 percent slopes, very stony

Component: Rockaway, very stony (85%)

The Rockaway, very stony component makes up 85 percent of the map unit. Slopes are 3 to 15 percent. This component is on ground moraines on till plains. The parent material consists of coarse-loamy till derived from granite and gneiss. Depth to a root restrictive layer, fragipan, is 18 to 30 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during February, March, April, May. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria.

Map unit: RobDc - Rockaway sandy loam, 15 to 25 percent slopes, extremely stony

Component: Rockaway, extremely stony (85%)

The Rockaway, extremely stony component makes up 85 percent of the map unit. Slopes are 15 to 25 percent. This component is on ground moraines on till plains. The parent material consists of coarse-loamy till derived from granite and gneiss. Depth to a root restrictive layer, fragipan, is 18 to 30 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during February, March, April, May. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Map unit: RocB - Rockaway gravelly sandy loam, 3 to 8 percent slopes

Component: Rockaway (85%)

The Rockaway component makes up 85 percent of the map unit. Slopes are 3 to 8 percent. This component is on ground moraines on till plains. The parent material consists of coarse-loamy till derived from granite and gneiss. Depth to a root restrictive layer, fragipan, is 18 to 30 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during February, March, April, May. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Map unit: RocC - Rockaway gravelly sandy loam, 8 to 15 percent slopes

Component: Rockaway (85%)

The Rockaway component makes up 85 percent of the map unit. Slopes are 8 to 15 percent. This component is on ground moraines on till plains. The parent material consists of coarse-loamy till derived from granite and gneiss. Depth to a root restrictive layer, fragipan, is 18 to 30 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during February, March, April, May. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map unit: RoefCc - Rockaway loam, thin fragipan, 8 to 15 percent slopes, extremely stony

Component: Rockaway, thin fragipan, extremely stony (85%)

The Rockaway, thin fragipan, extremely stony component makes up 85 percent of the map unit. Slopes are 8 to 15 percent. This component is on ground moraines, till plains. The parent material consists of coarse-loamy till derived from granite and gneiss. Depth to a root restrictive layer, fragipan, is 18 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 23 inches during February, March, April, May. Organic matter content in the surface horizon is about 85 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Map unit: RoefDc - Rockaway loam, thin fragipan, 15 to 35 percent slopes, extremely stony

Component: Rockaway, thin fragipan, extremely stony (85%)

The Rockaway, thin fragipan, extremely stony component makes up 85 percent of the map unit. Slopes are 15 to 35 percent. This component is on till plains, ground moraines. The parent material consists of coarse-loamy till derived from granite and gneiss. Depth to a root restrictive layer, fragipan, is 18 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 23 inches during February, March, April, May. Organic matter content in the surface horizon is about 85 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Map unit: RokD - Rockaway-Chatfield-Rock outcrop complex, 35 to 60 percent slopes

Component: Rockaway, thin fragipan (45%)

The Rockaway, thin fragipan component makes up 45 percent of the map unit. Slopes are 15 to 35 percent. This component is on mountains, ground moraines. The parent material consists of coarse-loamy till derived from limestone, sandstone, and shale. Depth to a root restrictive layer, fragipan, is 18 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 23 inches during February, March, April, May. Organic matter content in the surface horizon is about 85 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Component: Chatfield (25%)

The Chatfield component makes up 25 percent of the map unit. Slopes are 15 to 35 percent. This component is on mountains, ground moraines. The parent material consists of coarse-loamy till derived from granite and gneiss. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 85 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Component: Rock outcrop (20%)

Generated brief soil descriptions are created for major soil components. The Rock outcrop is a miscellaneous area.

Map unit: RomC - Rockaway-Rock outcrop complex, 8 to 15 percent slopes

Component: Rockaway, moderately well drained, extremely stony (70%)

The Rockaway, moderately well drained, extremely stony component makes up 70 percent of the map unit. Slopes are 8 to 15 percent. This component is on ground moraines on till plains. The parent material consists of coarse-loamy till derived from granite and gneiss. Depth to a root restrictive layer, fragipan, is 18 to 30 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during February, March, April, May. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Map Unit Description (Brief, Generated)

Morris County, New Jersey

Map unit: RomC - Rockaway-Rock outcrop complex, 8 to 15 percent slopes

Component: Rock outcrop (30%)

Generated brief soil descriptions are created for major soil components. The Rock outcrop is a miscellaneous area.

Map unit: RomD - Rockaway-Rock outcrop complex, 15 to 25 percent slopes

Component: Rockaway, extremely stony (60%)

The Rockaway, extremely stony component makes up 60 percent of the map unit. Slopes are 15 to 25 percent. This component is on ground moraines on till plains. The parent material consists of coarse-loamy till derived from granite and gneiss. Depth to a root restrictive layer, fragipan, is 18 to 30 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during February, March, April, May. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Component: Rock outcrop (25%)

Generated brief soil descriptions are created for major soil components. The Rock outcrop is a miscellaneous area.

Map unit: RomE - Rockaway-Rock outcrop complex, 25 to 45 percent slopes

Component: Rockaway, moderately well drained, very stony (55%)

The Rockaway, moderately well drained, very stony component makes up 55 percent of the map unit. Slopes are 25 to 45 percent. This component is on ground moraines on till plains. The parent material consists of coarse-loamy till derived from granite and gneiss. Depth to a root restrictive layer, fragipan, is 16 to 39 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during February, March, April, May. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Component: Rock outcrop (30%)

Generated brief soil descriptions are created for major soil components. The Rock outcrop is a miscellaneous area.

Map unit: RooC - Rockaway-Urban land complex, thin fragipans, 0 to 15 percent slopes

Component: Rockaway, thin fragipan (45%)

The Rockaway, thin fragipan component makes up 45 percent of the map unit. Slopes are 8 to 15 percent. This component is on till plains, ground moraines. The parent material consists of coarse-loamy till derived from limestone, sandstone, and shale. Depth to a root restrictive layer, fragipan, is 18 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 23 inches during February, March, April, May. Organic matter content in the surface horizon is about 85 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Urban land, Rockaway, thin fragipan, substratum (40%)

Generated brief soil descriptions are created for major soil components. The Urban land is a miscellaneous area.

Map Unit Description (Brief, Generated)

Morris County, New Jersey

Map unit: RooD - Rockaway-Urban land complex, thin fragipans, 0 to 25 percent slopes

Component: Rockaway, thin fragipan (45%)

The Rockaway, thin fragipan component makes up 45 percent of the map unit. Slopes are 15 to 25 percent. This component is on till plains, ground moraines. The parent material consists of coarse-loamy till derived from granite and gneiss. Depth to a root restrictive layer, fragipan, is 18 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 23 inches during February, March, April, May. Organic matter content in the surface horizon is about 85 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Component: Urban land, Rockaway, thin fragipan, substratum (40%)

Generated brief soil descriptions are created for major soil components. The Urban land is a miscellaneous area.

Map unit: TurA - Turbotville loam, 0 to 3 percent slopes

Component: Turbotville (95%)

The Turbotville component makes up 95 percent of the map unit. Slopes are 0 to 3 percent. This component is on stream terraces on piedmonts. The parent material consists of fine-loamy drift over residuum weathered from limestone. Depth to a root restrictive layer is greater than 60 inches . The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Map unit: TurB - Turbotville loam, 3 to 8 percent slopes

Component: Turbotville (85%)

The Turbotville component makes up 85 percent of the map unit. Slopes are 2 to 6 percent. This component is on stream terraces on piedmonts. The parent material consists of fine-loamy drift over residuum weathered from limestone. Depth to a root restrictive layer is greater than 60 inches . The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Map unit: UccAs - Udifluvents, 0 to 3 percent slopes, occasionally flooded

Component: Udifluvents, occasionally flooded (90%)

The Udifluvents, occasionally flooded component makes up 90 percent of the map unit. Slopes are 0 to 3 percent. This component is on flood plains on river valleys. The parent material consists of coarse-loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 40 inches during January, February, March, April, May, June, November, December. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Map unit: UdrB - Udorthents, refuse substratum, 0 to 8 percent slopes

Component: Udorthents, refuse substratum (100%)

The Udorthents, refuse substratum component makes up 100 percent of the map unit. Slopes are 0 to 8 percent. This component is on low hills on uplands, fills. The parent material consists of loamy lateral spread deposits over organic material. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is very high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Map unit: UR - Urban land

Component: Urban land (95%)

Generated brief soil descriptions are created for major soil components. The Urban land is a miscellaneous area.

Map unit: URWETB - Urban land, wet substratum, 0 to 8 percent slopes (SSURGO!)

Component: Urban land, wet substratum (85%)

Generated brief soil descriptions are created for major soil components. The Urban land is a miscellaneous area.

Map unit: USGKAC - Urban land-Gladstone complex, 8 to 15 percent slopes

Component: Urban land (60%)

Generated brief soil descriptions are created for major soil components. The Urban land is a miscellaneous area.

Component: Gladstone (40%)

The Gladstone component makes up 40 percent of the map unit. Slopes are 8 to 15 percent. This component is on hills on piedmonts. The parent material consists of loamy colluvium derived from granite and gneiss and/or loamy residuum weathered from granite and gneiss. Depth to a root restrictive layer is greater than 60 inches . The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map unit: USHALB - Urban land-Haledon complex, 3 to 8 percent slopes

Component: Urban land (45%)

Generated brief soil descriptions are created for major soil components. The Urban land is a miscellaneous area.

Component: Haledon (40%)

The Haledon component makes up 40 percent of the map unit. Slopes are 3 to 8 percent. This component is on ground moraines on till plains. The parent material consists of coarse-loamy basal till derived from basalt. Depth to a root restrictive layer, fragipan, is 16 to 30 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map unit: USNESB - Urban land-Neshaminy complex, 0 to 8 percent slopes

Component: Urban land (45%)

Generated brief soil descriptions are created for major soil components. The Urban land is a miscellaneous area.

Component: Neshaminy, stony (40%)

The Neshaminy, stony component makes up 40 percent of the map unit. Slopes are 3 to 8 percent. This component is on hills on piedmonts. The parent material consists of dark colored basic rocks or loamy residuum weathered from diabase. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Map unit: USPENB - Urban land-Penn complex, 0 to 8 percent slopes

Component: Urban land (55%)

Generated brief soil descriptions are created for major soil components. The Urban land is a miscellaneous area.

Component: Penn (35%)

The Penn component makes up 35 percent of the map unit. Slopes are 0 to 6 percent. This component is on hills on piedmonts. The parent material consists of fine-loamy residuum weathered from acid reddish shale, siltstone, and fine-grain sandstone. Depth to a root restrictive layer, bedrock, paralithic, is 30 to 42 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map unit: USPREB - Urban land-Preakness complex, 0 to 8 percent slopes

Component: Urban land, rarely flooded (45%)

Generated brief soil descriptions are created for major soil components. The Urban land is a miscellaneous area.

Component: Preakness, frequently flooded (40%)

The Preakness, frequently flooded component makes up 40 percent of the map unit. Slopes are 0 to 2 percent. This component is on outwash terraces on outwash plains. The parent material consists of coarse-loamy outwash derived from gneiss, sandstone, conglomerate and basalt. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is frequently flooded. It is occasionally ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, October, November, December. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria.

Map unit: USRHVB - Urban land-Riverhead complex, 3 to 8 percent slopes

Component: Urban land (60%)

Generated brief soil descriptions are created for major soil components. The Urban land is a miscellaneous area.

Component: Riverhead (40%)

The Riverhead component makes up 40 percent of the map unit. Slopes are 3 to 8 percent. This component is on outwash fans on outwash plains. The parent material consists of glaciofluvial deposits derived from granite and gneiss. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2s. This soil does not meet hydric criteria.

Map unit: USROCC - Urban land-Rockaway complex, 3 to 15 percent slopes

Component: Rockaway (45%)

The Rockaway component makes up 45 percent of the map unit. Slopes are 3 to 15 percent. This component is on ground moraines on till plains. The parent material consists of coarse-loamy till derived from granite and gneiss. Depth to a root restrictive layer, fragipan, is 18 to 30 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during February, March, April, May. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map Unit Description (Brief, Generated)

Morris County, New Jersey

Map unit: USROCC - Urban land-Rockaway complex, 3 to 15 percent slopes

Component: Urban land (40%)

Generated brief soil descriptions are created for major soil components. The Urban land is a miscellaneous area.

Map unit: USROCD - Urban land-Rockaway complex, 15 to 25 percent slopes

Component: Urban land (45%)

Generated brief soil descriptions are created for major soil components. The Urban land is a miscellaneous area.

Component: Rockaway, stony (40%)

The Rockaway, stony component makes up 40 percent of the map unit. Slopes are 15 to 25 percent. This component is on ground moraines on till plains. The parent material consists of coarse-loamy till derived from granite and gneiss. Depth to a root restrictive layer, fragipan, is 18 to 30 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during February, March, April, May. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Map unit: USWHHB - Urban land-Whippany, occasionally flooded complex, 0 to 8 percent slopes

Component: Urban land (45%)

Generated brief soil descriptions are created for major soil components. The Urban land is a miscellaneous area.

Component: Whippany, occasionally flooded (40%)

The Whippany, occasionally flooded component makes up 40 percent of the map unit. Slopes are 0 to 8 percent. This component is on lake terraces on outwash plains. The parent material consists of silty and clayey glaciolacustrine deposits derived from shale and/or granite and/or basalt. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is high. Shrink-swell potential is moderate. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, May, October, November, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3w. This soil does not meet hydric criteria.

Map unit: WadB - Washington loam, 3 to 8 percent slopes

Component: Washington (85%)

The Washington component makes up 85 percent of the map unit. Slopes are 3 to 8 percent. This component is on hills on till plains. The parent material consists of over residuum weathered from limestone and/or residuum weathered from gneiss. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Map unit: WadC2 - Washington loam, 8 to 15 percent slopes, eroded

Component: Washington, eroded (85%)

The Washington, eroded component makes up 85 percent of the map unit. Slopes are 8 to 15 percent. This component is on hills on till plains. The parent material consists of over residuum weathered from limestone and/or residuum weathered from gneiss. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map unit: WATER - Water

Component: Water (100%)

Generated brief soil descriptions are created for major soil components. The Water is a miscellaneous area.

Map unit: WhpA - Whippany silt loam, 0 to 3 percent slopes

Component: Whippany (85%)

The Whippany component makes up 85 percent of the map unit. Slopes are 0 to 3 percent. This component is on lake terraces on outwash plains. The parent material consists of silty and clayey glaciolacustrine deposits derived from shale and/or granite and/or basalt. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, May, October, November, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3w. This soil does not meet hydric criteria.

Map unit: WhpB - Whippany silt loam, 3 to 8 percent slopes

Component: Whippany (85%)

The Whippany component makes up 85 percent of the map unit. Slopes are 3 to 8 percent. This component is on lake terraces on outwash plains. The parent material consists of silty and clayey glaciolacustrine deposits derived from shale and/or granite and/or basalt. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is high. Shrink-swell potential is moderate. This soil is rarely flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, May, October, November, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3w. This soil does not meet hydric criteria.

Map unit: WhphA - Whippany silt loam, sandy loam substratum, 0 to 3 percent slopes

Component: Whippany, sandy loam substratum (85%)

The Whippany, sandy loam substratum component makes up 85 percent of the map unit. Slopes are 0 to 3 percent. This component is on flood plains on outwash plains. The parent material consists of silty and clayey glaciolacustrine deposits derived from shale and/or granite and/or basalt. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, May, October, November, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3w. This soil does not meet hydric criteria.

Map Unit Description (Brief, Generated)

Morris County, New Jersey

Map unit: WhphB - Whippany silt loam, sandy loam substratum, 3 to 8 percent slopes

Component: Whippany, sandy loam substratum (85%)

The Whippany, sandy loam substratum component makes up 85 percent of the map unit. Slopes are 3 to 8 percent. This component is on flood plains on outwash plains. The parent material consists of silty and clayey glaciolacustrine deposits derived from shale and/or granite and/or basalt. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, May, October, November, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3w. This soil does not meet hydric criteria.

Map unit: WhvAb - Whitman loam, 0 to 3 percent slopes, very stony

Component: Whitman, very stony (85%)

The Whitman, very stony component makes up 85 percent of the map unit. Slopes are 0 to 3 percent. This component is on depressions on till plains. The parent material consists of loamy till derived from granite and gneiss and/or schist. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, June, October, November, December. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 7s. This soil meets hydric criteria.

Map unit: WkkAt - Willette muck, 0 to 2 percent slopes, frequently flooded

Component: Willette, frequently flooded (85%)

The Willette, frequently flooded component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on lake plains on lake plains. The parent material consists of organic material over clayey lacustrine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is very high. Shrink-swell potential is low. This soil is frequently flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, October, November, December. Organic matter content in the surface horizon is about 85 percent. Nonirrigated land capability classification is 7w. This soil meets hydric criteria.

APPENDIX F

DGM DATA

Data provided separately on this disk.

APPENDIX G

DGM EQUIPMENT AND PROCEDURES

G.1 DGM EQUIPMENT AND PROCEDURES

Note that for report continuity the text from Section 5 (starting at Section 5.1.3) has been combined with the specific equipment and procedures text for clarification of the abridged text.

1.1.1 Geophysical and Navigational Equipment

The following subsections describe the geophysical and navigational equipment used during the RI.

1.1.1.1 Geophysical Equipment

The Geonics EM61-MK2 was used for DGM grid surveys in the 1926 Explosion Radius MRS, Former Operational Areas MRS, Lakes MRS, and some DGM transect surveys in the Former Operational Areas MRS. The EM61-MK2 in high-power mode was also used to conduct the underwater DGM transect surveys in both the Picatinny Lake and Lake Denmark portions of the Lakes MRS.

To assist with detection of bulk burial features, the Geonics EM31-MK2 was used for DGM transect surveys in the Former Operational Areas MRS, the Shell Burial Grounds MRS, and the Inactive Munitions Waste Pit MRS. The Geometric G-858 cesium vapor magnetometer was additionally used for DGM transect surveys in the Shell Burial Grounds MRS as well as the Advanced Geosciences SuperSting R8 Earth resistivity meter which was used to perform the resistivity surveys within the Shell Burial Grounds MRS.

The White's MXT all-metals detector was used by UXO Technicians for anomaly reacquisition and during intrusive activities in all MRSs.

Geonics EM61-MK2

The EM61-MK2 sensor is battery-powered and operates at a maximum output of 10,000 milliVolts (mV). The EM61-MK2 sensor is a 1 by 0.5 meter (m) air-cored coil that acts as both a transmitter and receiver. The transmitter generates a pulsed magnetic field that induces eddy currents in conductive objects within the subsurface. These currents are proportional to the conductive nature of the material below the instrument. When conductive objects are present below the instrument, the amplitude and decay time of the induced eddy currents vary in response to the size, mass, and

orientation of the objects. The receiver measures the amplitude of these eddy currents at 216, 366, 660, and 1260 micro-second intervals during the decay period.

Geonics EM31-MK2

The EM31-MK2 terrain conductivity meter (EM-31) is battery powered and operates at a frequency of 9.8 kilohertz (kHz). The instrument measures apparent conductivity in units of millisiemens per meter (mS/m) in materials with conductivities ranging up to 1,000 mS/m. The unit functions as both a transmitter and receiver, and is able to detect ferrous and non-ferrous metallic objects in the shallow subsurface. The EM31-MK2 collects both quadrature and in-phase components during data collection. The quadrature component is sensitive to conductors with low induction numbers (i.e., low conductivity materials/soils). Relative conductivity values associated with in-phase measurements have a greater sensitivity to buried metal objects (i.e., buried drums). The effective depth of exploration is estimated at 18 feet. The unit is interfaced with a GPS unit mounted above the center point of the transmitter/receiver coils.

Geometrics G-858 Cesium Vapor Magnetometer

The Geometrics G-858 cesium vapor magnetometer is comprised of a belt-mounted display and logging console connected to two cesium sensors mounted on a hand-held counterbalanced staff. The console contains electronics to acquire magnetic field data with position and display them on an LCD screen for review and edit. The G-858 consists of three items: (1) a photon emitter containing a cesium light emitter (lamp); (2) an absorption chamber containing cesium vapor and a 'buffer gas' through which the emitted photons pass; and (3) a photon detector, arranged in that order. Basically, when the sensor encounters a perturbation (quantum energy) from a local magnetic source (i.e., 60-mm ordnance), this energy may hit one of the cesium atoms and cause it to jump into a new energy state, which may, in turn, absorb a photon from the cesium emitter. If this is the case, it will cause a decrease in the number of photons reaching the detector and this decrease can be easily recorded as a measure of the magnetic anomaly.

AGI SuperSting R8 Earth Resistivity Meter

The Advanced Geosciences, Inc. SuperSting R8 Earth Resistivity Meter is a non-intrusive method used to image the subsurface structure related to the underlying site geology. The 2-D

earth resistivity imaging (ERI) method uses a collinear arrangement of uniformly-spaced electrodes inserted into the ground to profile varying subsurface conditions as a function of differences in electrical resistivity. DC current is transmitted into the ground by a pair of current electrodes, and the potential drop in voltage is measured along the transect by multiple sets of paired electrodes. The distance between electrodes, as well as the geometry of the electrodes within the array, determines the depth and array location at which the point measurement is modeled.

White's XLT All-Metals Detector

The White's XLT all-metals detector consists of a hand-held, two-coil design that uses the electromagnetic method to detect ferrous and non-ferrous metals. An audible signal sounds when the sensors are swept over conductive material. The volume and frequency of the signal changes as the sensor pinpoints the center of the source body. The instrument sensitivity can be adjusted to increase or decrease the capability to detect small, metallic materials.

1.1.1.1.1 Navigation and Positioning Equipment

Navigation and positioning equipment and methods used for DGM surveying and reacquisition activities during the RI field activities included line and fiducial, and GPS via Trimble Real Time Kinematic (RTK) and the Trimble GeoXH 6000 units. In grid locations where GPS could not be used because of terrain or overhead obstructions, the line and fiducial surveying method was used. A Trimble R8 RTK GPS was used for survey and reacquisition activities within the Picatinny Lake grid in the Lakes MRS. The Trimble GeoXH 6000 was used for all EM31-MK2, EM61-MK2, and G-858 magnetometer transect surveys.

Mag and dig transect surveys employed Garmin 60CSx or Trimble GeoXH handheld GPS units for navigation. During surveying, item locations were logged using GPS integrated with personal handheld computers operating software capable of electronically logging the target attributes in real-time during the field investigations.

Line and Fiducial

For the line and fiducial DGM surveying (using the Cartesian X, Y grid system), geo-referencing the geophysical data was accomplished using the information recorded in a field log/note book (e.g., start and end of line stations, lane spacing, and fiducial mark intervals) and the information digitally recorded in each geophysical survey data file. DGM survey lanes used for navigation control were established by pulling non-metallic tape measures from previously established survey control points. Data were collected in parallel lines at a spacing of 3 feet apart with fiducial marks every 20 feet. The UTM coordinates of the survey control points were then used to transform or "warp" the Cartesian coordinates and associated geophysical data to UTM coordinates in the post-processing step.

Trimble R8 RTK GPS

A Trimble R8 RTK GPS was used for survey and reacquisition activities within the Lakes MRS, Picatinny Lake grid. A GPS antenna was mounted over the center of the top EM61-MK2 coil and connected to the field computer during DGM data collection. The RTK GPS captures real-time kinematic corrections from a local base station established over a survey-grade control point. Positioning data are output as a National Marine Electronics Association (NMEA) message directly into a data logger at one-second intervals. Direct interfacing between the GPS and EM61-MK2 units uses a single clock and enables the streaming of GPS location data directly into the raw data file.

Trimble GeoXH 6000

The Trimble GeoXH 6000 was used for all EM31-MK2, EM61-MK2, and G-858 Magnetometer transect surveys. The GeoXH 6000 has a GPS/GLONASS receiver and a dual frequency global navigation satellite system (GNSS) antenna, and is capable of sub-meter accuracy. Positioning data from the GeoXH 6000 are output as a National Marine Electronics Association (NMEA) message directly into a data logger at one-second intervals. Geophysical data loggers were directly interfaced with the GeoXH unit during the transect surveys, which enabled the streaming of GPS location data directly into the raw data file.

1.1.1.1.2 Geophysical System Verification

The geophysical system verification (GSV) approach was used to monitor and verify geophysical equipment functionality during the DGM surveys. The GSV approach uses an instrument verification strip (IVS) and a blind seeding program to monitor sensor detection performance. The full GSV program was used to monitor data quality during land-based EM61-MK2 and analog instrumentation survey activities. The underwater detection systems used a simplified IVS, without a blind seeding component. The underwater IVS consisted of 1 or 2 items each, placed in each lake to assess *in situ* performance. IVS-specific data and results collected daily during the DGM survey effort are provided with the DGM data in **Appendix E**.

The IVS was not used for the EM31-MK2, as the GSV program is not a suitable method for verifying EM31-MK2 functionality. The GSV process was also not applicable to the G-858 instrumentation, as the transect surveys being conducted were focused on the detection of bulk magnetic features, not discrete munitions items. For the EM31-MK2 and G-858 instrumentation, the instrument calibration routine outlined by the manufacturer (see Section 3 of the Final Work Plan [WESTON, 2012]), along with the standard daily instrument function checks, were sufficient to determine that the system was functioning properly and capable of achieving the RI objectives. No deficiencies were noted in QC testing of the EM31-MK2 or G-858 during the RI.

The GSV program was also not suitable method for verifying functionality of the R8 Resistivity meter, therefore QC measures for the R8 meter consisted of prior to initiating the survey the operator conducted a contact resistance test that measured the contact resistance between the ground and each electrode. If any of the values seemed out of place the electrode was reseated or the ground was moistened around the electrode to improve current flow into the ground.

1.1.1.1.3 Instrument Function Tests

Instrument function tests were performed daily before and after production surveying.

1.1.1.1.4 Instrument Verification Strip

The IVS provided a means to verify on an ongoing basis that the geophysical equipment was operating properly. The land-based IVS was installed adjacent to the location of a previous contractor’s geophysical prove-out behind Building 302 to support the RI at PTA. The IVS was

linearly seeded with five items, including one small industry standard object (ISO), two medium ISOs, one inert 37mm projectile, and one inert 60mm mortar. **Table G-1** lists the IVS seed items and descriptions.

The seeds were placed along the IVS to prevent overlapping signals. The seed layout of the IVS is detailed in **Figure G-1**. The items were seeded linearly over 70 feet and were spaced 10 feet apart horizontally (least favorable orientation) with the long axis aligned parallel to the ground surface. Item types were confirmed with the USACE quality assurance (QA) Geophysicist prior to mobilization. Seed locations and depths were surveyed by the licensed surveyor. An unseeded test strip was also established adjacent to the seeded portion of the IVS to monitor background noise.

Table G-1 Instrument Verification Strip Seed Items and Descriptions

IVS Seed Item Type	Northing[b]	Easting[b]	Orientation	Depth	Description
Medium ISO[a] (2 inches by 8 inches)	14869936.76	1760164.57	Horizontal	6.5 inches	Part Number[c]: 44615K529 ASTM Specification: A53/A773.
60mm projectile	14869926.57	1760158.22	Horizontal	6.25 inches	Inert mortar.
37mm projectile	14869917.99	1760152.88	Horizontal	3.25 inches	Inert projectile.
Medium ISO[a] (2 inches by 8 inches)	14869903.59	1760143.90	Horizontal	7.5 inches	Part Number[c]: 44615K529 ASTM Specification: A53/A773.
Small ISO[a] (1 inch by 4 inches)	14869891.73	1760136.51	Horizontal	3.1 inches	Part Number[c]: 44615K466 ASTM Specification: A53/A773.

Notes:
a - ISOs are schedule 40 pipe nipples, threaded on both ends, made from black welded steel and manufactured to an American Society for Testing and Materials (ASTM) specification.
b - Coordinates are in NAD 83 UTM, U.S. ft.
c - Part number from the McMaster-Carr catalog.

The IVS and unseeded test strip were visited daily before and after the DGM surveys and intrusive investigations. The EM61-MK2 and White's MXT were tested at the IVS. The EM61-MK2 was passed through the IVS as depicted in **Figure G-1**. The White's MXT was tested at the

IVS by passing the equipment over the lines to determine whether the volume and frequency of the audible signal changes were consistent with the expected signals.

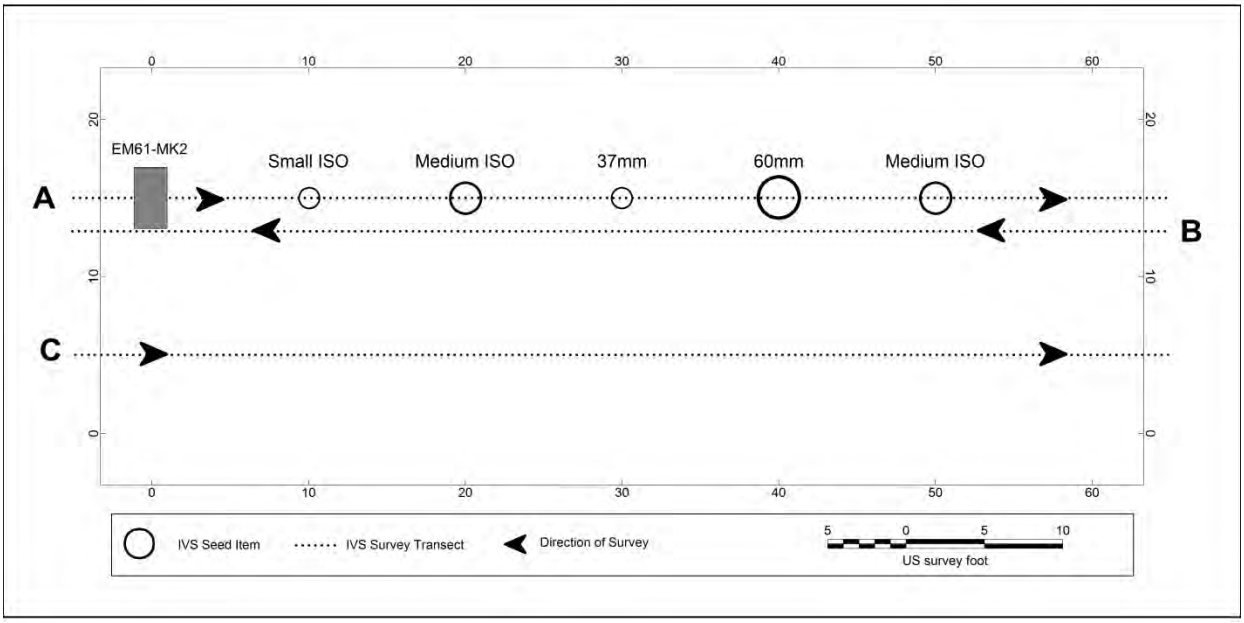
1.1.1.1.4.1 Instrument Verification Strip Construction

Prior to the burial of any seed items, a background survey was conducted within the proposed IVS area to determine the suitability of the location and to assist the site geophysicist in placement of the seed items. Following the background survey, the seed items were buried in accordance with the proposed IVS layout as detailed above. Each seed item, as well as the start and end points of each IVS transect, were marked at the surface with a polyvinyl chloride (PVC) pin flag. After the IVS construction, a DGM survey was performed over the pattern detailed in **Figure G-1** to determine the seed item response baseline.

1.1.1.1.4.2 Instrument Verification Strip Procedure

The IVS and unseeded test strip was visited daily before and after the DGM surveys and intrusive investigations. The EM61-MK2 and White's XLT were tested at the IVS. The EM61-MK2 was passed through the IVS as depicted in **Figure G-1**. The first pass, Line A, was directly over the seed items, followed by Line B, which was offset 2 feet from Line A. A third and final pass was then made over Line C, the unseeded portion of the test strip. The results of this survey were then compared to the seed item response baseline and sensor response curves to determine that the geophysical equipment was operating properly. The White's XLT was tested at the IVS by passing the equipment over the lines to determine if volume and frequency of the audible signal changes were consistent with the expected signals.

The EM61-MK2 IVS results for the 22 days that DGM data were collected at PTA are presented in **Table G-2**. Results collected for each day of DGM at the IVS show agreement and repeatable results for the series of seeds. The seed items placed within the IVS were observed in the geophysical data with signals consistent with the sensor response curves developed for the EM61-MK2. All peak responses from the seed items were observed to be greater than the least favorable orientation response and to have consistent responses between surveys. These results demonstrate that the digital geophysical equipment was functioning within a tolerable range to achieve detection performance metrics. Photographs of the equipment are provided in **Appendix H**.



Notes:
Line A: Directly over IVS seeds; used to verify that instrument response is within established response curve metrics.
Line B: Adjacent to Line A to use for offset detection and evaluate latency.
Line C: 10-ft offset from seeded IVS transect; used to measure local background noise.

Figure G-1 Instrument Verification Strip Layout and Process

Table G-2 EM61-MK2 Instrument Verification Strip Results

Item Description	Medium ISO	60mm Mortar	37mm Projectile	Medium ISO	Small ISO
Item Depth (inches)	6.5	6.25	3.25	7.5	3.1
Least favorable orientation response (mV)	144.95	83.72	46.10	118.82	36.70
IVS Date/Response Values	Response (mV)				
12/8/2011	127.57	67.60	34.07	116.44	36.93
12/9/2011	129.05	66.15	37.87	116.51	33.01
12/9/2011	130.87	72.03	36.98	110.56	31.99
12/9/2011	125.18	61.15	28.73	108.54	32.28
12/9/2011	127.04	58.75	35.9	106.45	32.8
12/12/2011	117.47	56.763	27.17	93.85	27.43
12/12/2011	123.43	56.1	28.214	91.58	27.93
12/13/2011	121.18	56.75	30.23	101.37	32.07
12/13/2011	120.08	57.702	28.5	88.66	23.76
12/14/2011	120.93	59.206	26.48	93.67	29.6
12/14/2011	121.43	61.692	26.707	98.49	31.14
12/15/2011	123.88	60.358	28.102	102.51	30.44
12/15/2011	126.93	60.54	29.295	105.47	31.63
12/16/2011	129.42	65.73	32.06	117.1	38.67
12/16/2011	132.38	62.582	30.363	108.96	29.44
12/19/2011	124.47	57.4	25.797	92.52	29.39
12/19/2011	116.37	54.377	27.664	86.5	28.55
12/19/2011	123.62	62.99	25.201	97.58	33.36
12/19/2011	114.80	67.95	28.72	113.03	34.18
12/19/2011	123.34	59.5	35.3	103.61	30.28
12/20/2011	125.98	65.496	31.227	105.64	33.03
12/20/2011	126.59	65.342	27.88	99.68	34.1
12/20/2011	129.49	71.962	35.22	121.51	37.33
12/20/2011	125.62	59.493	36.3	112.54	30.78
12/21/2011	126.78	62.22	26.25	107.24	31.34
12/21/2011	130.12	62.206	28.559	112.56	32.2
12/22/2011	128.33	58.09	29.444	102.75	28.66
12/22/2011	126.35	59.086	30.61	105.2	30.13
1/19/2012	126.18	67.28	39.01	95.24	24.46
1/19/2012	129.92	71.37	38.91	94.82	26.64
1/23/2012	117.18	65.39	39.72	85.00	24.51
1/23/2012	131.55	80.74	47.23	99.48	28.77
1/24/2012	137.14	76.57	47.94	102.35	26.37

Item Description	Medium ISO	60mm Mortar	37mm Projectile	Medium ISO	Small ISO
Item Depth (inches)	6.5	6.25	3.25	7.5	3.1
Least favorable orientation response (mV)	144.95	83.72	46.10	118.82	36.70
IVS Date/Response Values	**Response (mV)**				
1/24/2012	112.77	56.31	44.39	87.16	18.69
1/25/2012	144.69	85.31	46.84	108.15	36.50
1/25/2012	146.51	84.40	48.71	105.45	29.73
2/2/2012	141.07	74.25	46.08	114.49	30.59
2/2/2012	155.38	84.08	48.91	121.27	38.28
2/13/2012	144.85	82.76	50.85	107.94	30.56
2/13/2012	148.08	81.33	46.59	112.12	34.00
2/15/2012	137.27	73.72	45.52	102.91	26.81
2/15/2012	141.56	75.58	48.79	111.83	25.78
2/17/2012	135.97	75.30	44.84	106.75	31.43
2/17/2012	154.23	89.03	46.08	127.52	36.65
2/20/2012	146.99	77.32	47.14	104.29	26.87
2/20/2012	147.04	82.01	45.62	106.18	28.85
2/21/2012	146.92	81.96	41.95	117.69	32.31
2/21/2012	151.81	76.92	51.82	113.21	33.59
2/22/2012	148.24	75.20	48.10	105.76	30.81
2/22/2012	145.69	74.91	49.77	106.51	29.18

1.1.1.1.5 Blind Seeding Program

A seeding program was instituted in the land-based DGM survey areas to provide ongoing monitoring of the geophysical instrumentation detection performance. The seed was blind to the geophysical data collection and processing teams. One seed item consisting of a medium ISO (2-inch by 8-inch steel pipe) was placed at approximately 6 inches below ground surface (bgs) in each DGM grid. The location and depth of the seed items were surveyed by the licensed surveyor. All seeds were recovered by the UXO dig teams during intrusive investigations in DGM grids. **Table G-3** lists the depth, type, geophysical response, and offset of the seed item placed within the DGM grid. The blind seed items placed within the DGM survey areas were observed in the geophysical data with a signal consistent with the sensor response curves developed for the EM61-MK2 and within the 3-foot offset metric established in the Final RI Work Plan (WESTON, 2012).

Table G-3 Blind Seeding Results

Grid	Item	Depth (in)	Orientation	Target ID	Status	Peak Response (mV)	Offset (in)
26IR-002	Medium ISO (2-inch x 8-inch pipe)	2	Horizontal	26IR-002-23	Recovered	159.52	14
26IR-003	Medium ISO (2-inch x 8-inch pipe)	2	Horizontal	26IR-003-4	Recovered	176.75	2
26IR-004	Medium ISO (2-inch x 8-inch pipe)	15	Horizontal	26IR-004-8	Recovered	64.18	4
26IR-007	Medium ISO (2-inch x 8-inch pipe)	4	Horizontal	26IR-007-3	Recovered	125.41	20
26IR-008	Medium ISO (2-inch x 8-inch pipe)	6	Horizontal	26IR-008-9	Recovered	119.22	24
26IR-009	Medium ISO (2-inch x 8-inch pipe)	6	Horizontal	26IR-009-7	Recovered	95.26	6
26IR-010	Medium ISO (2-inch x 8-inch pipe)	12	Horizontal	26IR-010-33	Recovered	66.68	3
26IR-011	Medium ISO (2-inch x 8-inch pipe)	6	Horizontal	26IR-011-8	Recovered	119.35	12
26IR-012	Medium ISO (2-inch x 8-inch pipe)	8	Horizontal	26IR-012-11	Recovered	110.21	3
26IR-013	Medium ISO (2-inch x 8-inch pipe)	4	Horizontal	26IR-013-5	Recovered	206.62	6
26IR-014	Medium ISO (2-inch x 8-inch pipe)	6	Horizontal	26IR-014-6	Recovered	188.82	14
26OR-011	Medium ISO (2-inch x 8-inch pipe)	6	Horizontal	26OR-011-35	Recovered	98.44	4
26OR-013	Medium ISO (2-inch x 8-inch pipe)	6	Horizontal	26OR-013-8	Recovered	121.01	0
26OR-016	Medium ISO (2-inch x 8-inch pipe)	6	Horizontal	26OR-016-4	Recovered	104.57	6
26OR-017	Medium ISO (2-inch x 8-inch pipe)	4	Horizontal	26OR-017-4	Recovered	81.25	4
26OR-018	Medium ISO (2-inch x 8-inch pipe)	6	Horizontal	26OR-018-12	Recovered	156.83	2
26OR-019	Medium ISO (2-inch x 8-inch pipe)	6	Horizontal	26OR-019-18	Recovered	90.05	0
26OR-020	Medium ISO (2-inch x 8-inch pipe)	6	Horizontal	26OR-020-41	Recovered	44.14	6
26OR-021	Medium ISO (2-inch x 8-inch pipe)	6	Horizontal	26OR-021-3	Recovered	136.52	0
26OR-031	Medium ISO (2-inch x 8-inch pipe)	6	Horizontal	26OR-031-1	Recovered	109.26	4

Grid	Item	Depth (in)	Orientation	Target ID	Status	Peak Response (mV)	Offset (in)
26OR-035	Medium ISO (2-inch x 8-inch pipe)	6	Horizontal	26OR-035-1	Recovered	106.41	0
26OR-036	Medium ISO (2-inch x 8-inch pipe)	6	Horizontal	26OR-036-3	Recovered	121.97	0
26OR-037	Medium ISO (2-inch x 8-inch pipe)	4	Horizontal	26OR-037-3	Recovered	101.38	12
26OR-038	Medium ISO (2-inch x 8-inch pipe)	6	Horizontal	26OR-038-9	Recovered	106.47	4
26OR-039	Medium ISO (2-inch x 8-inch pipe)	4	Horizontal	26OR-039-4	Recovered	94.02	2
26OR-040	Medium ISO (2-inch x 8-inch pipe)	6	Horizontal	26OR-040-10	Recovered	117.50	10
26OR-042	Medium ISO (2-inch x 8-inch pipe)	6	Horizontal	26OR-042-1	Recovered	98.58	0
26OR-043	Medium ISO (2-inch x 8-inch pipe)	6	Horizontal	26OR-043-4	Recovered	84.29	0
26OR-045	Medium ISO (2-inch x 8-inch pipe)	3	Horizontal	26OR-045-4	Recovered	78.42	4
26OR-079	Medium ISO (2-inch x 8-inch pipe)	4	Horizontal	26OR-079-1	Recovered	170.26	3
26OR-080	Medium ISO (2-inch x 8-inch pipe)	4	Horizontal	26OR-080-1	Recovered	190.52	5
26OR-091	Medium ISO (2-inch x 8-inch pipe)	8	Horizontal	26OR-091-2	Recovered	76.48	8
26OR-092	Medium ISO (2-inch x 8-inch pipe)	8	Horizontal	26OR-092-10	Recovered	60.56	8
26OR-095	Medium ISO (2-inch x 8-inch pipe)	3	Horizontal	26OR-095-3	Recovered	112.71	6
26OR-097	Medium ISO (2-inch x 8-inch pipe)	4	Horizontal	26OR-097-6	Recovered	70.42	6
26OR-098	Medium ISO (2-inch x 8-inch pipe)	8	Horizontal	26OR-098-13	Recovered	140.15	10
26OR-099	Medium ISO (2-inch x 8-inch pipe)	8	Horizontal	26OR-099-1	Recovered	66.68	4
26OR-100	Medium ISO (2-inch x 8-inch pipe)	4	Horizontal	26OR-100-20	Recovered	119.43	12
26OR-101	Medium ISO (2-inch x 8-inch pipe)	4	Horizontal	26OR-101-28	Recovered	51.84	2
FOA-001	Medium ISO (2-inch x 8-inch pipe)	3	Horizontal	FOA-01-27	Recovered	91.15	0

Grid	Item	Depth (in)	Orientation	Target ID	Status	Peak Response (mV)	Offset (in)
FOA-002	Medium ISO (2-inch x 8-inch pipe)	2	Horizontal	FOA-02-3	Recovered	68.09	0
FOA-003	Medium ISO (2-inch x 8-inch pipe)	4	Horizontal	FOA-03-5	Recovered	91.45	0
FOA-004	Medium ISO (2-inch x 8-inch pipe)	6	Horizontal	FOA-04-10	Recovered	83.06	2
FOA-005	Medium ISO (2-inch x 8-inch pipe)	8	Horizontal	FOA-05-4	Recovered	78.83	5
FOA-006	Medium ISO (2-inch x 8-inch pipe)	8	Horizontal	FOA-06-3	Recovered	134.50	0
FOA-007	Medium ISO (2-inch x 8-inch pipe)	8	Horizontal	FOA-07-4	Recovered	101.52	0
LDM-001	Medium ISO (2-inch x 8-inch pipe)	0	Horizontal	LDM-001-19	Recovered	72.35	0

1.1.1.1.6 DGM Survey Procedures

Geophysical surveys at the Picatinny Arsenal were conducted using both line and fiducial navigation and GPS, as stated in the previous sections. Line of fiducial navigation was used for all grids except the Picatinny Lake Firing Point because tree canopy interfered with the use of GPS equipment. DGM survey lanes used for navigation control were established by pulling non-metallic tape measures from previously established survey control points. Data were collected in parallel lines at a spacing of 3 feet apart with fiducial marks every 20 feet. The UTM coordinates of the survey control points were then used to transform or “warp” the Cartesian coordinates and associated geophysical data to UTM coordinates in the post-processing step. GPS navigation was used for all transects and the Picatinny Lake Firing Point.

1.1.2 Data Processing

1.1.2.1 Quality Control

Data processing QC metrics were tracked daily throughout the life of the project. The Project Geophysicist performed QC measures, not only on the QC instrument function tests, but also on the data collected by the EM61-MK2, EM31-MK2 and the G-858. The following parameters were analyzed:

- Coverage.
- Velocity.

- Sample separation.
- Mean noise.
- Noise standard deviation.
- QC seed detection.

1.1.2.2 Data Management

All data related to DGM surveys were managed using Geosoft® Oasis montaj software. All spatial data were managed using a GIS, and are stored in Environmental Systems Research Institute® (ESRI)-compatible GIS formats, primarily ArcInfo coverage and ArcView shape files. Data were stored in site-specific folders based on individual field tasks, data type, and file extensions. All DGM data were provided electronically to the USACE QA Geophysicist for QA. Data were provided via the WESTON TeamLink® website and were backed up on the WESTON internal network and project workstation.

1.1.3 Digital Data Processing

The EM61-MK2 data were imported into Geonics® Dat-61MK2 software for pre-processing. Dat-61MK2 is used to position the line and fiducial data and to create a Geosoft®-compatible XYZ data file. Data collected with GPS was converted into an XYZ file. Each XYZ file contains data for each of the four time gates recorded, the position, and the offsets entered for that unit. The survey data were processed using Geosoft®'s Oasis montaj software. Data were checked for navigational accuracy, line distribution, and coverage. Latency values obtained during the pre- and post-survey QC tests were applied to the data, correcting for any temporal lags seen in the data. A Geosoft® script was run to automatically progress through the processing steps for each of the four individual data channels. A non-linear drift correction filter was used to remove any drift associated with each data channel occurring throughout the survey period. Velocity and sample separation were calculated for each dataset.

Background noise was evaluated for each dataset by windowing a section of the data and generating statistics using the UX-Process QC module. Statistics calculated for 1926 Explosion Radius MRS, Former Operational Areas MRS, and Lake Denmark portion of the Lakes MRS DGM grid data parameters are presented in **Table G-4**. Channel 2 was then gridded using a grid cell size of 0.25 feet with a search radius of 2 feet and blanking distance of 2.25 feet. Processing parameters are listed in **Table G-5**.

Table G-4 DGM Data Parameters

Data Metric	Mean Sample Separation (ft)	Mean Velocity (mph)	Background Noise (mean)	Background Noise (std. dev.)
DQO / Grid ID	< 0.5ft	< 3mph	MRS Specific	< 2.5
26IR-002	0.25	1.67	0.64	0.819
26IR-003	0.27	1.83	-0.251	0.716
26IR-004	0.23	1.57	-0.048	0.757
26IR-007	0.31	1.86	-1.523	0.699
26IR-008	0.27	1.82	-0.65	0.787
26IR-009	0.27	1.66	-1.523	0.699
26IR-010	0.29	1.97	-0.65	0.787
26IR-011	0.23	1.56	-0.264	0.742
26IR-012	0.28	1.92	-0.293	0.636
26IR-013	0.22	1.48	-0.251	0.716
26IR-014	0.25	1.68	-0.264	0.742
26OR-011	0.24	1.59	-0.048	0.757
26OR-013	0.3	2.02	-0.048	0.757
26OR-016	0.23	1.56	0.64	0.819
26OR-017	0.24	1.65	-0.65	0.787
26OR-018	0.269	1.82	0.64	0.819
26OR-019	0.222	1.49	0.64	0.819
26OR-020	0.258	1.74	-0.792	0.72
26OR-021	0.264	1.77	0.64	0.819
26OR-031	0.247	1.67	0.64	0.819
26OR-035	0.239	1.6	0.64	0.819
26OR-036	0.258	1.57	-1.523	0.699
26OR-037	0.274	1.67	-1.523	0.699
26OR-038	0.274	1.85	-0.293	0.636
26OR-039	0.251	1.67	-0.65	0.787
26OR-040	0.248	1.67	-0.293	0.636
26OR-042	0.243	1.64	-0.946	0.796
26OR-043	0.219	1.47	-0.946	0.796
26OR-045	0.232	1.56	-0.946	0.796
26OR-079	0.271	1.82	-0.251	0.716
26OR-080	0.233	1.57	-0.251	0.716
26OR-091	0.305	1.86	-1.523	0.699
26OR-092	0.254	1.71	-0.81	0.672
26OR-095	0.191	1.29	-1.086	0.567
26OR-097	0.292	1.78	-1.104	0.802
26OR-098	0.346	2.11	-1.104	0.802
26OR-099	0.248	1.67	-0.81	0.672
26OR-100	0.308	1.88	-1.104	0.802

26OR-101	0.251	1.7	-0.81	0.672
FOA-01	0.20	1.36	0.73	1.11
FOA-02	0.16	1.06	0.31	0.60
FOA-03	0.22	1.46	0.79	0.85
FOA-04	0.19	1.30	0.30	0.54
FOA-05	0.19	1.25	0.55	0.65
FOA-06	0.23	1.53	0.58	1.00
FOA-07	0.24	1.60	0.44	0.79
LD-01	0.21	1.45	0.44	0.92

Table G-5 EM61-MK2 Data Processing Parameters

Process	Parameter
Drift – Non-Linear Drift Correction Filter (UCEDRIFT.GX)	Window Length: 100 % lowest values ignored: 10% % highest values ignored: 70% All data channels were processed using the same parameters.
Statistical Evaluation of Background Noise	Windowed section of background/using UX-Process QA/QC module to evaluate std dev and mean noise values.
Grid	Cell Size: 0. 25 ft Blanking Distance: 2.25 ft Search Radius: 2 ft
Blakely Peak Picking Algorithm	Smooth Filter: 3 Normal Peak Detection Grid Value Cutoff: EM 7.2 mV
Target Decay Analysis	Performed based on each data channel.
Target Review	Performed.

1.1.4 Anomaly Selection

Anomalies were selected from the Channel 2 gridded data using the Blakely Test target selection algorithm. A target threshold value of 7.2 mV on Channel 2, as approved by the USACE QA geophysicist, was used to select the initial target list. This threshold was based upon seed item responses and noise levels observed at the IVS during initial pre- and post-seeding surveys. In addition to the primary target list, QA targets were selected at the project geophysicist's discretion with responses as low as 5mV. Target review consisted of manually evaluating all selected targets and removing or merging multiple targets associated with large anomalies.

Where necessary, targets were moved to the location of the peak response or target center of a given anomaly.

A target decay analysis was run to remove targets that had an atypical decay between the four time gate channels. An atypical decay is observed when an anomaly signal does not decrease through time, but instead shows an increase in any of the subsequent time gate channels. The most common causes of atypical decay are due to external radio frequency interferences or rouge terrain encountered during data collection. The details of the EM61-MK2 data processing parameters using Geosoft® are summarized in **Table G-5**.

1.1.5 Dig List Development

Following the selection of anomalies from the geophysical data evaluation, the anomaly locations and characteristics were compiled into a dig list. The dig list data were logged into a hand-held computer and managed using WESTON's RespondFast UXO Investigation software. The site geophysicist assigned each anomaly a unique target identifier and entered the corresponding information for the target into the database. The following information was included in the database for each anomaly:

- Grid ID
- Unique target ID, including area (i.e., 1926OR-016-001 [Location-Grid ID-unique target ID])
- Easting and northing position
- Channel 2 response amplitude for anomalies

Dig lists developed following digital data analysis are presented in **Appendix G**.

1.1.6 DGM Quality Control

Instrument functionality tests were conducted before and after DGM surveying adjacent to the IVS, located behind Building 302. The static test and static response test involved collecting non-dynamic data for a period of 3 minutes without and with a small ISO item, respectively, for the EM61-MK2, EM31 and G858. Tests for the EM61-MK2 show background noise levels ranging from 0.57 to 1.98 standard deviations, with minimum and maximum readings between 4.6 mV and 2.6 mV. The static spike test measurements range from a minimum of 148 mV to a

maximum value of 181 mV with a standard deviation between 0.61 and 1.76. Static response test data for all instrumentation tested showed consistent response values within the ±20% metric over the test object in pre- and post-survey tests. The project metric for test data was established at a standard deviation of less than 2.5. Neither outside interference nor anomalous data spikes were observed during the static instrument tests.

1.1.7 Anomaly Reacquisition

The anomalies detected during the DGM surveys were reacquired for further investigation. Anomaly reacquisition was performed using a Trimble Geo 6000 GPS unit for navigation to the precise location of each target. A reacquisition team navigated to each location, and marked it using the unique target identifier recorded on a non-metallic pin flag.

APPENDIX H

DIG LISTS

Project Name:	Picatinny Arsenal	Geophysical Contractor:	WESTON
Project Location:	Picatinny, NJ	Project Geophysicist:	Ryan Steigerwalt
Date:	7/11/2012	Site Geophysicist:	Paul Novak
Coordinate System:	UTM 18N		
MRS:	1926 Explosion Radius	USACE Geophysicist:	Megan Garrett

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26IR-001-401	14873448.53	1763243.421	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	1	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-001-402	14873473.96	1763229.488	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	2	Railroad Spikes	0.5	NA	-	-	1	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-001-403	14873477.63	1763234.989	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	file (tool)	0.02	NA	-	-	3	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-001-404	14873498.03	1763229.186	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag Pit	4	Small Fragment Pit	0.5	NA	-	-	4	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-001-405	14873474	1763237.769	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	3	Fragment	0.1	NA	-	-	6	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-001-406	14873462.35	1763239.181	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	1	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-001-407	14873484.28	1763242.762	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	0.5	NA	-	-	0	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-001-408	14873477.49	1763240.507	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	NA	-	-	4	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-001-409	14873466.95	1763244.112	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	3	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-001-410	14873487.58	1763236.156	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	3	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-001-411	14873496.51	1763242.23	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	0.1	NA	-	-	0	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-001-412	14873470.28	1763221.22	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	NA	-	-	3	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-001-413	14873462.98	1763218.498	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	NA	-	-	6	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-001-414	14873455.68	1763215.771	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	2	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-001-415	14873452.37	1763230.912	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Rock Drill Bit for Quarrying	0.5	NA	-	-	4	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-001-416	14873466.63	1763221.241	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Partial Drill Shank	1	NA	-	-	4	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-001-417	14873477.63	1763234.989	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.	3	NA	-	-	8	5/3/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-001-418	14873474.03	1763243.294	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		NA	-	-	6	5/3/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-001-419	14873466.69	1763232.283	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Drill Bit	0.5	NA	-	-	4	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-001-420	14873454.3	1763221.503	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Debris too large to clear.	1.5	NA	-	-	6	5/3/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-001-421	14873484.83	1763218.387	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Steam pipe coupling strap	1	NA	-	-	8	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-001-422	14873498.55	1763213.438	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	4	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-001-423	14873484.89	1763229.429	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	NA	-	-	4	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-001-424	14873459.4	1763232.32	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	5.5	NA	-	-	4	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-001-425	14873466.72	1763237.809	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	1	NA	-	-	6	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-001-426	14873492.12	1763240.325	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	1	NA	-	-	0	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-001-427	14873488.58	1763240.456	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	2	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-001-428	14873488.53	1763229.414	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.02	NA	-	-	3	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-001-429	14873463.02	1763226.782	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.02	NA	-	-	2	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-001-430	14873473.93	1763223.962	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		NA	-	-	8	5/3/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-002-1	14873357.03	1763195.88	Channel 2	11631.54	White's XLT	Cultural Debris	Pipe	1	Shared with targets 2 through 15		0	14873357.03	1763195.88	0	5/4/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-002-10	14873328.82	1763152.92	Channel 2	4820.62	White's XLT	Cultural Debris	Pipe	1	Shared with targets 1 through 15		0	14873328.82	1763152.92	0	5/4/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-002-11	14873339.79	1763168.24	Channel 2	4678.36	White's XLT	Cultural Debris	Pipe	1	Shared with targets 1 through 15		0	14873339.79	1763168.24	0	5/4/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-002-12	14873330.86	1763156.41	Channel 2	4337.25	White's XLT	Cultural Debris	Pipe	1	Shared with targets 1 through 15		0	14873330.86	1763156.41	0	5/4/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-002-13	14873332.23	1763157.17	Channel 2	4307.54	White's XLT	Cultural Debris	Pipe	1	Shared with targets 2 through 15		0	14873332.23	1763157.17	0	5/4/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-002-14	14873333.81	1763160.41	Channel 2	4282.28	White's XLT	Cultural Debris	Pipe	1	Shared with targets 1 through 15		0	14873333.81	1763160.41	0	5/4/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-002-15	14873343.2	1763172.48	Channel 2	3767.71	White's XLT	Cultural Debris	Pipe	1	1,2,.....15		0	14873343.2	1763172.48	0	5/4/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-002-16	14873341.3	1763189.62	Channel 2	861.53	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	6	24	14873341.3	1763191.62	4	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-002-16-1	14873341.3	1763189.62	Channel 2	861.53	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit	0	24	14873341.3	1763191.62	8	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-002-16-2	14873341.3	1763189.62	Channel 2	861.53	White's XLT	Cultural Debris	Rebar	1	Rebar/grounding rod		8	14873341.97	1763189.62	0	5/3/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-002-17	14873354.15	1763198.85	Channel 2	747.17	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		10	14873354.15	1763198.017	3	5/3/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-002-18	14873346.08	1763192.44	Channel 2	540.98	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit	0.1	6	14873346.58	1763192.44	6	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-002-19	14873343.76	1763184.05	Channel 2	403.04	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	5	21	14873345.51	1763184.05	4	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-002-2	14873355.22	1763192.71	Channel 2	10886.42	White's XLT	Cultural Debris	Pipe	1	Shared with targets 1 through 15		0	14873355.22	1763192.71	0	5/4/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-002-20	14873347.06	1763197.13	Channel 2	357.28	White's XLT	Cultural Debris	Pipe	1	Pipe	1	12	14873347.06	1763196.13	0	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-002-21	14873340.12	1763182.05	Channel 2	235.24	White's XLT	No Contact		1	No Contact						5/3/2012	William Sturm	NA
1926 Explosion Radius	26IR-002-22	14873348.6	1763173.07	Channel 2	163.42	White's XLT	Cultural Debris	Nail	2	Nail	0.01	16	14873349.93	1763173.07	3	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-002-23	14873348.61	1763170.9	Channel 2	159.52	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.5	14	14873347.79	1763170.075	2	5/3/2012	William Sturm	Retained by Weston
1926 Explosion Radius	26IR-002-24	14873326.18	1763156.15	Channel 2	98.79	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		10	14873325.59	1763156.739	3	5/3/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-002-25	14873370.24	1763168.94	Channel 2	75.74	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	6	14873369.89	1763169.294	3	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-002-26	14873365.56	1763177.83	Channel 2	64.44	White's XLT	No Contact		1	No Contact						5/3/2012	William Sturm	NA
1926 Explosion Radius	26IR-002-27	14873370.84	1763167.49	Channel 2	60.90	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	4	14873370.84	1763167.157	2	5/4/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-002-28	14873379.5	1763162.69	Channel 2	49.79	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14873379.5	1763162.69	0	5/4/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-002-29	14873313.13	1763183.18	Channel 2	48.81	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14873313.13	1763183.18	0	5/3/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-002-3	14873358.61	1763199.12	Channel 2	7774.67	White's XLT	Cultural Debris	Pipe	1	Shared with targets 1 through 15		0	14873358.61	1763199.12	0	5/3/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-002-30	14873365.25	1763179.84	Channel 2	44.26	White's XLT	No Contact		1	No Contact						5/3/2012	William Sturm	NA
1926 Explosion Radius	26IR-002-31	14873364.81	1763156.87	Channel 2	40.65	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	6	14873364.81	1763156.37	2	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-002-32	14873362.15	1763189.8	Channel 2	39.95	White's XLT	Cultural Debris	Nail	1	Nail	0.5	10	14873361.32	1763189.8	9	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-002-33	14873364.82	1763191.06	Channel 2	39.25	White's XLT	Cultural Debris	Nail	2	Nail	0.01	0	14873364.82	1763191.06	2	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-002-34	14873322.38	1763181.6	Channel 2	34.34	White's XLT	Cultural Debris	Slag	1	Slag		9	14873323.13	1763181.6	8	5/3/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-002-35	14873355.48	1763206.47	Channel 2	33.18	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14873355.48	1763206.47	0	5/3/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-002-36	14873329.09	1763180.54	Channel 2	30.59	White's XLT	Cultural Debris	Nail	1	Nail	0.1	10	14873329.68	1763181.129	3	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-002-37	14873325.05	1763164.49	Channel 2	30.46	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		24	14873325.05	1763162.49	3	5/3/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-002-38	14873341.14	1763153.16	Channel 2	29.98	White's XLT	Cultural Debris	Nail	2	Nail	0.1	0	14873341.14	1763153.16	3	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-002-39	14873317.14	1763180.7	Channel 2	29.36	White's XLT	Cultural Debris	Slag	1	Slag		10	14873317.14	1763181.533	9	5/3/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-002-4	14873346.83	1763178.82	Channel 2	6314.07	White's XLT	Cultural Debris	Pipe	1	Shared with targets 1 through 15		0	14873346.83	1763178.82	0	5/4/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-002-40	14873320.1	1763182.52	Channel 2	29.21	White's XLT	Cultural Debris	Slag	1	Shared with target 42		13	14873319.02	1763182.52	8	5/3/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-002-41	14873335.66	1763138.64	Channel 2	27.06	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		0	14873335.66	1763138.64	0	5/3/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-002-42	14873322.09	1763183.22	Channel 2	24.73	White's XLT	Cultural Debris	Slag	1	Shared with target 40		13	14873321.01	1763183.22	8	5/3/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-002-43	14873317.06	1763178.69	Channel 2	23.90	White's XLT	Cultural Debris	Slag	1	Slag		6	14873317.41	1763179.044	8	5/3/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-002-44	14873318.89	1763177.51	Channel 2	23.47	White's XLT	Cultural Debris	Slag	1	Slag		6	14873319.39	1763177.51	9	5/3/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-002-45	14873330.29	1763179.43	Channel 2	23.43	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		8	14873329.62	1763179.43	1	5/3/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-002-46	14873330.82	1763186.04	Channel 2	23.08	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	2	14873330.99	1763186.04	6	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-002-47	14873314.56	1763179.29	Channel 2	22.27	White's XLT	Cultural Debris	Slag	1	Slag		10	14873314.56	1763180.123	6	5/3/2012	William Sturm	Left in place

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26IR-002-48	14873366.69	1763162.44	Channel 2	18.60	White's XLT	Munitions Debris	Fuze	1	Fuze Booster	0.5	8	14873367.16	1763161.969	3	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-002-49	14873367.37	1763181	Channel 2	18.46	White's XLT	Cultural Debris	Metal Scrap	1	handle	0.5	0	14873367.37	1763181	12	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-002-5	14873349.93	1763182.89	Channel 2	6263.37	White's XLT	Cultural Debris	Pipe	1	Shared with targets 2 through 15		0	14873349.93	1763182.89	0	5/4/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-002-50	14873358.23	1763180.73	Channel 2	13.05	White's XLT	Cultural Debris	Nail	1	Nail	0.01	12	14873357.52	1763181.437	2	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-002-51	14873352.47	1763157.01	Channel 2	12.09	White's XLT	Cultural Debris	Nail	1	Railroad Spike shared with target 55	0.5	4	14873352.23	1763156.774	4	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-002-52	14873312.41	1763180.68	Channel 2	10.55	White's XLT	Cultural Debris	Slag	1	Slag		0	14873312.41	1763180.68	9	5/3/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-002-53	14873330.64	1763172.3	Channel 2	9.47	White's XLT	Cultural Debris	Slag	1	Slag		6	14873331.14	1763172.3	3	5/3/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-002-54	14873319.61	1763170.8	Channel 2	9.45	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	0.1	20	14873318.43	1763171.979	2	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-002-55	14873350.89	1763157.73	Channel 2	9.04	White's XLT	Cultural Debris	Nail	1	Railroad Spike	0.5	4	14873351.13	1763157.966	3	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-002-56	14873325.08	1763175.97	Channel 2	7.68	White's XLT	Cultural Debris	Slag	1	Slag		8	14873325.55	1763175.499	4	5/3/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-002-6	14873351.97	1763186.38	Channel 2	5992.64	White's XLT	Cultural Debris	Pipe	1	Shared with targets 1 through 15		0	14873351.97	1763186.38	0	5/4/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-002-7	14873337.15	1763164.41	Channel 2	5785.55	White's XLT	Cultural Debris	Pipe	1	Shared with targets 1 through 15		0	14873337.15	1763164.41	0	5/4/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-002-8	14873336.39	1763163.99	Channel 2	5778.62	White's XLT	Cultural Debris	Pipe	1	Shared with targets 2 through 15		0	14873336.39	1763163.99	0	5/4/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-002-9	14873330.11	1763153.83	Channel 2	4878.18	White's XLT	Cultural Debris	Pipe	1	Shared with targets 2 through 15		0	14873330.11	1763153.83	0	5/4/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-1	14870296.1	1763666.445	Channel 2	603.61	White's XLT	Cultural Debris	Slag	1	Slag		7	14870296.51	1763666.857	2	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-10	14870324.93	1763673.049	Channel 2	78.61	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	3	14870324.75	1763672.872	15	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-11	14870293.48	1763657.082	Channel 2	68.47	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	4	14870293.81	1763657.082	0	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-12	14870290.91	1763657.112	Channel 2	58.49	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 11	0.5	6	14870290.41	1763657.112	4	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-13	14870312.37	1763664.195	Channel 2	57.97	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	5	14870312.37	1763663.778	4	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-14	14870323.66	1763674.346	Channel 2	57.27	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	4	14870323.9	1763674.582	3	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-15	14870312.83	1763680.306	Channel 2	52.57	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	4	14870312.59	1763680.07	3	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-16	14870292.08	1763705.406	Channel 2	51.69	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14870292.08	1763705.406	0	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-17	14870318.69	1763678.012	Channel 2	46.76	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	5	14870319.11	1763678.012	4	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-18-1	14870300.19	1763665.396	Channel 2	45.88	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	8	14870300.19	1763666.063	4	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-18-2	14870300.19	1763665.396	Channel 2	45.88	White's XLT	Cultural Debris	Slag	1	Slag		3	14870299.94	1763665.396	6	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-19	14870303.63	1763657.11	Channel 2	44.46	White's XLT	Cultural Debris	Pipe	1	Pipe	0.1	7	14870303.63	1763656.527	0	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-2	14870290.77	1763691.145	Channel 2	297.38	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 3	1	4	14870290.44	1763691.145	2	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-20	14870302.38	1763658.153	Channel 2	44.24	White's XLT	Cultural Debris	Slag	1	Slag		4	14870302.14	1763658.389	4	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-21	14870323.49	1763677.54	Channel 2	41.10	White's XLT	Cultural Debris	Slag	1	Slag		2	14870323.61	1763677.658	2	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-22	14870310.74	1763680.627	Channel 2	35.27	White's XLT	Cultural Debris	Nail	1	Nail	0.02	6	14870310.74	1763681.127	4	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-23-1	14870299.81	1763683.609	Channel 2	34.33	White's XLT	Cultural Debris	Slag	1	Slag		2	14870299.98	1763683.609	1	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-23-2	14870299.81	1763683.609	Channel 2	34.33	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	2	14870299.98	1763683.609	1	4/25/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-003-24	14870303.38	1763659.913	Channel 2	31.97	White's XLT	Cultural Debris	Slag	1	Slag		4	14870303.14	1763660.149	0	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-25-1	14870301.75	1763660.795	Channel 2	30.51	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	4	14870301.75	1763661.128	4	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-25-2	14870301.75	1763660.795	Channel 2	30.51	White's XLT	Cultural Debris	Slag	1	Slag		4	14870301.75	1763661.128	18	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-26	14870298.85	1763657.315	Channel 2	30.19	White's XLT	Cultural Debris	Pipe	1	Pipe	0.1	12	14870299.56	1763656.608	2	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-27-1	14870330.66	1763673.662	Channel 2	28.45	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		11	14870331.31	1763673.014	2	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-27-2	14870330.66	1763673.662	Channel 2	28.45	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14870330.66	1763673.662	0	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-28	14870296.91	1763651.869	Channel 2	27.56	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		7	14870296.91	1763652.452	3	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-29	14870316.14	1763672.121	Channel 2	25.90	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	2	14870316.14	1763671.954	2	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-3	14870292.26	1763690.385	Channel 2	254.94	White's XLT	Cultural Debris	Cultural Feature	1	Shared with target 2		18	14870293.76	1763690.385	1	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-30	14870318.54	1763665.658	Channel 2	25.85	White's XLT	Cultural Debris	Wire	1	Wire	0.01	7	14870318.13	1763666.07	3	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-31	14870302.76	1763652.656	Channel 2	24.05	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	2	14870302.76	1763652.823	3	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-32	14870298.41	1763700.55	Channel 2	22.26	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	4	14870298.74	1763700.55	4	4/25/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-003-33	14870320.91	1763680.394	Channel 2	21.85	White's XLT	Cultural Debris	Nail	1	Nail	0.5	3	14870321.09	1763680.217	4	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-34	14870282.94	1763659.982	Channel 2	21.68	White's XLT	Cultural Debris	Slag	1	Slag		1	14870282.94	1763659.899	3	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-35-1	14870306	1763672.101	Channel 2	21.61	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14870306	1763672.101	0	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-35-2	14870306	1763672.101	Channel 2	21.61	White's XLT	Cultural Debris	Nail	1	Nail	0.01	4	14870305.67	1763672.101	4	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-36	14870313.74	1763687.694	Channel 2	20.61	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	3	18	14870315.24	1763687.694	4	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-37	14870306.92	1763670.381	Channel 2	20.10	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	3	14870306.92	1763670.631	4	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-38	14870285.58	1763650.713	Channel 2	18.60	White's XLT	Cultural Debris	Slag	1	Slag		4	14870285.58	1763650.38	4	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-39	14870316.1	1763681.113	Channel 2	18.16	White's XLT	Cultural Debris	Slag	1	Slag	0.1	5	14870316.1	1763681.53	3	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-4	14870287.09	1763668.07	Channel 2	176.75	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	2	2	14870287.09	1763667.903	2	4/25/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26IR-003-40-1	14870261.41	1763668.638	Channel 2	17.33	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	6	14870261.91	1763668.638	4	4/25/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-003-40-2	14870261.41	1763668.638	Channel 2	17.33	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14870261.41	1763668.638	0	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-41	14870301.18	1763675.647	Channel 2	17.29	White's XLT	Cultural Debris	Nail	1	Nail	0.1	12	14870301.18	1763674.647	6	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-42	14870311.05	1763684.382	Channel 2	17.21	White's XLT	Cultural Debris	Slag	1	Slag		8	14870311.52	1763684.853	3	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-43	14870317.89	1763661.487	Channel 2	15.06	White's XLT	Cultural Debris	Bolt	1	Bolt	1	4	14870317.65	1763661.723	3	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-44	14870296.54	1763654.534	Channel 2	14.99	White's XLT	Cultural Debris	Slag	1	Slag		12	14870297.54	1763654.534	3	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-45	14870306.62	1763651.075	Channel 2	14.73	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		2	14870306.79	1763651.075	3	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-46	14870282.01	1763658.868	Channel 2	14.63	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 34	0.1	6	14870282.01	1763658.368	3	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-47	14870311.44	1763650.604	Channel 2	13.99	White's XLT	Cultural Debris	Pipe	1	Pipe	0.02	6	14870310.94	1763650.604	3	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-48	14870299.55	1763673.696	Channel 2	13.75	White's XLT	Cultural Debris	Nail	1	Nail	0.1	4	14870299.55	1763673.363	4	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-49	14870310.67	1763671.496	Channel 2	13.69	White's XLT	Cultural Debris	Slag	1	Slag	0.01	2	14870310.67	1763671.329	2	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-5	14870314.96	1763676.644	Channel 2	145.47	White's XLT	Cultural Debris	Slag	1	Slag	0.5	15	14870315.84	1763677.528	3	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-50	14870304.76	1763664.406	Channel 2	13.64	White's XLT	Cultural Debris	Slag	1	Slag		4	14870304.76	1763664.073	6	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-51	14870309.93	1763676.826	Channel 2	13.58	White's XLT	Cultural Debris	Slag	1	Slag		6	14870310.28	1763677.18	4	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-52	14870283.64	1763657.986	Channel 2	13.54	White's XLT	Cultural Debris	Slag	1	Slag		0	14870283.64	1763657.986	0	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-53	14870302.1	1763673.927	Channel 2	13.40	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	10	14870301.27	1763673.927	4	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-54	14870285.03	1763656.826	Channel 2	12.79	White's XLT	Cultural Debris	Nail	1	Nail	0.01	8	14870285.03	1763656.159	4	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-55-1	14870281.58	1763655.236	Channel 2	12.59	White's XLT	Cultural Debris	Nail	2	Nail	0.1	8	14870281.58	1763655.903	4	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-55-2	14870281.58	1763655.236	Channel 2	12.59	White's XLT	Cultural Debris	Slag	1	Slag		8	14870281.58	1763655.903	4	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-56	14870310.44	1763686.762	Channel 2	12.30	White's XLT	Cultural Debris	Nail	1	Nail	0.01	10	14870309.61	1763686.762	3	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-57-1	14870283.2	1763654.353	Channel 2	11.76	White's XLT	Cultural Debris	Nail	1	Nail	0.01	8	14870283.2	1763655.02	4	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-57-2	14870283.2	1763654.353	Channel 2	11.76	White's XLT	Cultural Debris	Slag	1	Slag		8	14870283.2	1763655.02	4	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-58	14870308.17	1763662.28	Channel 2	11.23	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	7	14870307.76	1763662.692	4	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-59	14870309.43	1763651.338	Channel 2	10.89	White's XLT	Cultural Debris	Pipe	1	Pipe	0.1	6	14870309.93	1763651.338	3	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-6	14870271.65	1763665.384	Channel 2	131.98	White's XLT	Munitions Debris	Frag	1	Fragment	5	12	14870271.65	1763664.384	6	4/25/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-003-60	14870290.42	1763644.087	Channel 2	10.03	White's XLT	Cultural Debris	Nail	1	Nail	0.01	4	14870290.18	1763643.851	4	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-61	14870294.1	1763651.615	Channel 2	9.73	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		3	14870294.28	1763651.792	4	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-62	14870308.18	1763687.259	Channel 2	9.23	White's XLT	Cultural Debris	Slag	1	Slag		15	14870308.18	1763688.509	2	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-63	14870312.37	1763661.376	Channel 2	9.19	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	6	14870312.37	1763660.876	2	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-64	14870299.03	1763635.672	Channel 2	9.11	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14870299.03	1763635.672	0	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-65	14870308.64	1763647.282	Channel 2	8.64	White's XLT	Cultural Debris	Slag	1	Slag		7	14870308.06	1763647.282	4	4/25/2012	Dan Hains	Left in place

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26IR-003-66-1	14870294.13	1763648.535	Channel 2	8.52	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		2	14870294.01	1763648.653	3	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-66-2	14870294.13	1763648.535	Channel 2	8.52	White's XLT	Cultural Debris	Nail	1	Nail	0.01	2	14870294.3	1763648.535	3	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-67-1	14870306.76	1763679.235	Channel 2	8.52	White's XLT	Cultural Debris	Nail	1	Nail	0.01	15	14870305.51	1763679.235	3	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-67-2	14870306.76	1763679.235	Channel 2	8.52	White's XLT	Cultural Debris	Slag	1	Slag		24	14870305.35	1763680.649	0	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-68	14870310.42	1763674.299	Channel 2	8.49	White's XLT	Cultural Debris	Slag	1	Slag	0.02	0	14870310.42	1763674.299	2	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-69	14870292.72	1763662.665	Channel 2	7.84	White's XLT	Cultural Debris	Slag	1	Slag		4	14870292.72	1763662.332	3	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-7	14870323.77	1763671.658	Channel 2	105.28	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	4	14870323.77	1763671.991	0	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-70-1	14870300.6	1763687.664	Channel 2	7.79	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		24	14870302.6	1763687.664	2	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-70-2	14870300.6	1763687.664	Channel 2	7.79	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	24	14870302.6	1763687.664	2	4/25/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-003-71	14870293.37	1763700.759	Channel 2	7.79	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	2	14870293.37	1763700.592	2	4/25/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-003-72	14870290.17	1763646.89	Channel 2	7.75	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	12	14870289.17	1763646.89	2	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-73	14870286.55	1763645.66	Channel 2	7.04	White's XLT	Cultural Debris	Slag	1	Slag		4	14870286.88	1763645.66	2	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-003-8	14870301.5	1763663.598	Channel 2	103.04	White's XLT	Cultural Debris	Slag	1	Slag	0.1	7	14870301.09	1763664.01	3	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-003-9	14870315.17	1763667.276	Channel 2	84.70	White's XLT	Cultural Debris	Bolt	1	Bolt	1.5	4	14870314.93	1763667.512	2	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-004-1	14870516.73	1762898.652	Channel 2	2116.71	White's XLT	Cultural Debris	Other	1	household reFuze, garbage bag left where found		0	14870516.73	1762898.652	0	5/4/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-004-10	14870479.88	1762872.031	Channel 2	48.77	White's XLT	Munitions Debris	Frag	3	boulder fields	5	12	14870480.88	1762872.031	6	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-004-100	14870490.23	1762888.755	Channel 2	9.35	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-101	14870497.23	1762889.438	Channel 2	9.27	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-102	14870481.43	1762878.508	Channel 2	9.13	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-103	14870489.23	1762893.026	Channel 2	9.09	White's XLT	Cultural Debris	Wire	1	Wire	0.1	6	14870488.73	1762893.026	6	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-004-104	14870477.8	1762886.086	Channel 2	9.05	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-105	14870486.64	1762885.665	Channel 2	9.02	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-106	14870515.51	1762892.035	Channel 2	8.86	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-107	14870505.55	1762904.636	Channel 2	8.71	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-108	14870479.26	1762876.633	Channel 2	8.61	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-109	14870526.99	1762875.603	Channel 2	8.60	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-11	14870493.76	1762873.519	Channel 2	47.27	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe, seed caused redundant targets	1.5	7	14870493.35	1762873.931	15	5/4/2012	William Sturm	Retained by Weston
1926 Explosion Radius	26IR-004-110	14870495.18	1762895.699	Channel 2	8.52	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-111	14870507.6	1762869.375	Channel 2	8.50	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-112	14870510.62	1762903.664	Channel 2	8.48	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-113	14870479.11	1762892.335	Channel 2	8.26	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-114	14870496.12	1762856.806	Channel 2	8.21	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-115	14870505.98	1762857.275	Channel 2	8.17	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-116	14870485.64	1762897.962	Channel 2	8.15	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-117	14870519.08	1762889.97	Channel 2	8.12	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-118	14870497.18	1762871.106	Channel 2	8.06	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-119	14870491.42	1762866.141	Channel 2	8.02	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-12	14870507.06	1762884.753	Channel 2	36.71	White's XLT	Munitions Debris	Frag	1	boulder fields	0.5	4	14870507.3	1762884.517	4	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-004-120	14870504.23	1762861.115	Channel 2	7.98	White's XLT	Munitions Debris	Frag	1	bolder field	0.1	2	14870504.4	1762861.115	1	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-004-121	14870496.54	1762878.58	Channel 2	7.96	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-122	14870474.59	1762891.114	Channel 2	7.93	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-123	14870487.65	1762857.319	Channel 2	7.79	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-124	14870484.12	1762880.825	Channel 2	7.77	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-125	14870503.11	1762902.54	Channel 2	7.73	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-126	14870493.98	1762860.323	Channel 2	7.72	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-127	14870494.15	1762886.79	Channel 2	7.71	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-128	14870496.44	1762875.597	Channel 2	7.61	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-129	14870484.49	1762896.969	Channel 2	7.50	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-13	14870497.06	1762862.97	Channel 2	29.38	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-130	14870496.52	1762894.4	Channel 2	7.45	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-131	14870490.61	1762868.12	Channel 2	7.12	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-132	14870471.98	1762883.522	Channel 2	7.06	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-133	14870475.14	1762888.992	Channel 2	3.56	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-14	14870532.24	1762880.126	Channel 2	28.62	White's XLT	Cultural Debris	Wire	1	thick wire caused a duplicate target	0.01	3	14870532.42	1762880.303	6	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-004-15	14870499.95	1762868.148	Channel 2	25.70	White's XLT	Cultural Debris	Foil	1	thick foil found beneath bolder	0.01	7	14870500.53	1762868.148	8	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-004-16	14870521.94	1762889.756	Channel 2	24.86	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-17	14870493.09	1762851.518	Channel 2	24.63	White's XLT	Cultural Debris	Wire	1	bolder fields	0.1	4	14870492.85	1762851.282	0	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-004-18	14870504.76	1762882.768	Channel 2	22.97	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-19	14870511.61	1762859.694	Channel 2	22.83	White's XLT	Cultural Debris	Can	1	aluminum can,	0.01	7	14870511.61	1762859.111	3	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-004-2	14870515.49	1762899.822	Channel 2	1762.71	White's XLT	Geology	Hot rock	1	large hot rock, large quantity of iron		0	14870515.49	1762899.822	0	5/4/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-004-20	14870519.53	1762871.839	Channel 2	22.14	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-21	14870531.52	1762881.737	Channel 2	21.75	White's XLT	Cultural Debris	Wire	1	thick wire caused a duplicate target	0.01	8	14870531.05	1762881.266	6	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-004-22	14870498.98	1762864.625	Channel 2	20.80	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-23	14870527.06	1762886.142	Channel 2	20.78	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-24	14870501.22	1762856.066	Channel 2	20.30	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-25	14870486.15	1762869.412	Channel 2	20.10	White's XLT	Cultural Debris	Fencing/Fence Post	1	chain link fencing extending to 62	1	10	14870486.98	1762869.412	4	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-004-26	14870506.74	1762882.02	Channel 2	20.04	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	4	14870506.41	1762882.02	3	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-004-27	14870516.71	1762869.413	Channel 2	20.03	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-28	14870503.03	1762870.796	Channel 2	19.06	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-29	14870490.99	1762860.426	Channel 2	19.03	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-3	14870498.7	1762909.217	Channel 2	182.65	White's XLT	Munitions Debris	Frag	1	bolder field	12	6	14870498.7	1762908.717	5	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-004-30	14870513.26	1762866.434	Channel 2	18.61	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-31	14870501.54	1762866.831	Channel 2	18.37	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-32	14870501.49	1762898.464	Channel 2	18.08	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-33	14870500.26	1762865.728	Channel 2	18.06	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-34	14870495.65	1762861.757	Channel 2	17.62	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	7	14870496.06	1762862.169	4	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-004-35	14870502.94	1762868.044	Channel 2	17.61	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-36	14870511.89	1762862.588	Channel 2	17.24	White's XLT	Cultural Debris	Pipe	1	this grid is located within a bolder field	0.25	12	14870512.6	1762861.881	2	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-004-37	14870500.6	1762897.692	Channel 2	17.08	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-38	14870510.42	1762863.776	Channel 2	16.79	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-39	14870502.16	1762912.197	Channel 2	15.78	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	13	14870502.16	1762911.114	3	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-004-4	14870515.41	1762876.104	Channel 2	179.03	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-40	14870510.83	1762875.722	Channel 2	15.64	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-41	14870520.27	1762880.295	Channel 2	15.64	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26IR-004-42	14870490.14	1762865.038	Channel 2	15.41	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-43	14870496.11	1762864.839	Channel 2	15.37	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-44	14870521.43	1762881.288	Channel 2	15.00	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-45	14870512.87	1762895.103	Channel 2	14.89	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-46	14870490.7	1762854.814	Channel 2	14.81	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-47	14870525.07	1762873.949	Channel 2	14.79	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-48	14870473.96	1762882.775	Channel 2	14.24	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-49	14870493.15	1762899.087	Channel 2	13.98	White's XLT	Munitions Debris	Frag	1	Fragment, Removed	0.5	6	14870493.65	1762899.087	2	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-004-5	14870513.91	1762880.172	Channel 2	160.59	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-50	14870498.15	1762882.416	Channel 2	13.92	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-51	14870502.61	1762873.098	Channel 2	13.87	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-52	14870493.3	1762891.403	Channel 2	13.60	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-53	14870534.45	1762879.374	Channel 2	13.56	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14870534.45	1762879.374	0	5/4/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-004-54	14870511.75	1762899.503	Channel 2	13.55	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-55	14870506.4	1762908.05	Channel 2	13.27	White's XLT	Cultural Debris	Bottle Top	1	Bottle Top, Boulder field	0.01	3	14870506.65	1762908.05	0	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-004-56	14870498.08	1762863.853	Channel 2	13.10	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-57	14870505.68	1762888.686	Channel 2	13.05	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-58	14870523.28	1762872.405	Channel 2	12.97	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-59	14870506.47	1762860.588	Channel 2	12.96	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-6	14870513.44	1762877.09	Channel 2	142.56	White's XLT	Cultural Debris	Metal Scrap	1	metal rod on surface	0.25	1	14870513.52	1762877.09	0	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-004-60	14870525.55	1762871.749	Channel 2	12.94	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-61	14870513.59	1762869.406	Channel 2	12.93	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-62	14870487.11	1762867.782	Channel 2	12.74	White's XLT	Cultural Debris	Fencing/Fence Post	1	Shared with target 25	1	18	14870487.11	1762869.282	4	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-004-63	14870514.06	1762864.463	Channel 2	12.68	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-64	14870522.19	1762873.924	Channel 2	12.67	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-65	14870487.28	1762886.217	Channel 2	12.66	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-66	14870501.9	1762853.984	Channel 2	12.59	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-67	14870489.36	1762856.112	Channel 2	12.57	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-68	14870465.75	1762883.5	Channel 2	12.46	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		20	14870465.75	1762881.833	0	5/4/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-004-69	14870480.58	1762883.121	Channel 2	11.70	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-7	14870471.13	1762880.109	Channel 2	97.80	White's XLT	Cultural Debris	Cable	1	unable to remove without heavy equipment		12	14870470.13	1762880.109	0	5/4/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-004-70	14870507.43	1762871.905	Channel 2	11.53	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-71	14870485.88	1762885.003	Channel 2	11.51	White's XLT	Cultural Debris	Foil	1	potato chip bag	0.01	10	14870485.05	1762885.003	1	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-004-72	14870509.16	1762891.904	Channel 2	11.18	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-73	14870504.74	1762869.589	Channel 2	11.15	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-74	14870510.2	1762868.94	Channel 2	11.12	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-75	14870506.32	1762887.681	Channel 2	11.10	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-76	14870473.13	1762874.063	Channel 2	11.09	White's XLT	Cultural Debris	Cable	1	wire rope	1	10	14870472.54	1762874.652	0	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-004-77	14870529.81	1762878.03	Channel 2	10.99	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-78	14870510.91	1762867.09	Channel 2	10.78	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-79	14870495.07	1762879.768	Channel 2	10.54	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-8	14870491.4	1762873.935	Channel 2	64.18	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe, seed caused redundant targets	1.5	4	14870491.64	1762873.699	15	5/4/2012	William Sturm	Retained by Weston
1926 Explosion Radius	26IR-004-80	14870493.47	1762867.906	Channel 2	10.46	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-81	14870499.17	1762854.301	Channel 2	10.44	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-82	14870510.11	1762882.248	Channel 2	10.42	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-83	14870500.11	1762852.44	Channel 2	10.30	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-84	14870480.52	1762893.549	Channel 2	10.25	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-85	14870516.18	1762884.791	Channel 2	10.19	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-86	14870488.18	1762886.989	Channel 2	10.15	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-87	14870497.38	1762873.728	Channel 2	10.11	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-88	14870509.56	1762884.447	Channel 2	9.95	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-89	14870505.46	1762872.892	Channel 2	9.94	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-9	14870501.49	1762916.94	Channel 2	51.96	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14870501.49	1762916.94	0	5/4/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-004-90	14870485.66	1762861.177	Channel 2	9.87	White's XLT	Geology	Hot rock	1	bolder fields		12	14870485.66	1762862.177	0	5/4/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-004-91	14870528.75	1762874.544	Channel 2	9.87	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-92	14870507.53	1762895.862	Channel 2	9.84	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-93	14870492.55	1762853.957	Channel 2	9.84	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-94	14870482.69	1762866.433	Channel 2	9.70	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-95	14870513.23	1762903.229	Channel 2	9.59	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-96	14870510.16	1762879.607	Channel 2	9.56	White's XLT	No Contact		1	No Contact						5/5/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-97	14870481.8	1762894.652	Channel 2	9.49	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-98	14870531.21	1762877.441	Channel 2	9.38	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-004-99	14870511.98	1762870.245	Channel 2	9.37	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-005-401	14869873.57	1762895.714	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	6	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-005-402	14869895.73	1762899.708	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	2	Nail	0.01	NA	-	-	3	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-005-403	14869906.7	1762907.938	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	rebsr under tree	1	NA	-	-	3	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-005-404	14869884.15	1762886.325	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-005-405	14869903.67	1762866.521	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	gas line valve	5	NA	-	-	0	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-005-406	14869917.46	1762874.745	Mag & Dig	Analog	White's XLT	Cultural Debris	2" x 8" Pipe	1	grid was changed from dgm	1.5	NA	-	-	6	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-005-407	14869866.55	1762907.031	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	9	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-005-408	14869923.44	1762887.059	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	0.1	NA	-	-	6	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-005-409	14869901.86	1762871.228	Mag & Dig	Analog	White's XLT	Target Not Investigated	Inaccessible	1	unknown item located under large tree root ball need hesvy equipment to access		NA	-	-	0	5/5/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-006-401	14868504.89	1762569.442	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	3	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-006-402	14868513.28	1762563.188	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-006-403	14868517.42	1762569.354	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	1	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-006-404	14868517.42	1762569.354	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-006-405	14868540.67	1762559.918	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-006-406	14868538.05	1762556.625	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-006-407	14868532.87	1762560.432	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-006-408	14868532.87	1762560.432	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-006-409	14868528.24	1762564.17	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-006-410	14868535.44	1762547.562	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-007-1	14872728.94	1766095.52	Channel 2	637.01	White's XLT	Munitions Debris	Frag	1	Fragment	35	24	14872730.94	1766095.52	2	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-007-10	14872742.75	1766085.008	Channel 2	46.98	White's XLT	Munitions Debris	Frag	1	Fragment	1	6	14872743.25	1766085.008	2	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26IR-007-11	14872749.08	1766097.786	Channel 2	39.91	White's XLT	No Contact		1	No Contact						5/4/2012	William Sturm	NA
1926 Explosion Radius	26IR-007-12	14872706.24	1766043.184	Channel 2	39.43	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14872706.24	1766043.184	0	5/4/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-007-13	14872742.36	1766086.919	Channel 2	38.46	White's XLT	Munitions Debris	Frag	1	Fragment	1	20	14872740.69	1766086.919	2	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-007-14	14872723.85	1766055.046	Channel 2	37.31	White's XLT	Munitions Debris	Frag	1	Fragment	4	8	14872723.18	1766055.046	10	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-007-15	14872742.9	1766083.466	Channel 2	36.72	White's XLT	Munitions Debris	Frag	1	Fragment	1	16	14872743.84	1766084.409	2	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-007-16-1	14872755.93	1766048.25	Channel 2	35.52	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	18	14872756.99	1766047.189	1	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-007-16-2	14872755.93	1766048.25	Channel 2	35.52	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14872755.93	1766048.25	0	5/4/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-007-17-1	14872701.11	1766092.836	Channel 2	30.90	White's XLT	Cultural Debris	Vehicle Part	1	Vehicle Part	1	8	14872701.58	1766093.307	4	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-007-17-2	14872701.11	1766092.836	Channel 2	30.90	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	3	12	14872701.82	1766093.543	6	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-007-17-3	14872701.11	1766092.836	Channel 2	30.90	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14872701.11	1766092.836	0	5/4/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-007-18	14872718.63	1766090.509	Channel 2	21.51	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	18	14872717.57	1766091.57	3	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-007-19	14872750.27	1766083.642	Channel 2	19.09	White's XLT	Munitions Debris	Frag	1	Fragment	1	8	14872750.94	1766083.642	3	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-007-2	14872725.47	1766073.308	Channel 2	355.84	White's XLT	Munitions Debris	Frag	1	Fragment	30	0	14872725.47	1766073.308	6	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-007-20	14872717.52	1766044.544	Channel 2	18.96	White's XLT	Cultural Debris	Wire	1	Wire	0.01	15	14872718.4	1766045.428	6	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-007-21	14872704.05	1766081.026	Channel 2	17.01	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	12	14872704.05	1766082.026	6	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-007-22	14872747.17	1766085.464	Channel 2	16.88	White's XLT	Munitions Debris	Frag	1	Fragment	1	12	14872748.17	1766085.464	4	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-007-23	14872750.79	1766097.962	Channel 2	13.64	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14872750.79	1766097.962	0	5/4/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-007-24	14872751.5	1766080.54	Channel 2	12.83	White's XLT	Munitions Debris	Frag	1	Fragment	1	10	14872750.67	1766080.54	3	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-007-25	14872747.53	1766089.593	Channel 2	10.69	White's XLT	Munitions Debris	Frag	1	Fragment	1	12	14872746.53	1766089.593	4	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-007-26	14872728.39	1766045.399	Channel 2	8.90	White's XLT	Munitions Debris	Frag	1	Wire	1	10	14872727.56	1766045.399	3	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-007-27	14872733.47	1766059.925	Channel 2	8.16	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	6	14872733.82	1766060.279	6	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-007-28	14872705.48	1766067.17	Channel 2	5.69	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	8	14872705.95	1766067.641	4	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-007-3	14872717.31	1766084.532	Channel 2	125.41	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	1.5	20	14872717.31	1766082.865	4	5/4/2012	William Sturm	Retained by Weston
1926 Explosion Radius	26IR-007-4	14872720.01	1766082.859	Channel 2	117.02	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	1.5	20	14872721.19	1766084.038	4	5/4/2012	William Sturm	Retained by Weston
1926 Explosion Radius	26IR-007-5	14872736.61	1766050.135	Channel 2	95.59	White's XLT	Munitions Debris	Frag	1	Fragment	5	0	14872736.61	1766050.135	4	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-007-6	14872708.26	1766093.562	Channel 2	84.38	White's XLT	Munitions Debris	Frag	1	Fragment	5	6	14872708.76	1766093.562	8	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-007-7	14872719.42	1766086.699	Channel 2	64.91	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	1.5	24	14872720.83	1766088.113	4	5/4/2012	William Sturm	Retained by Weston
1926 Explosion Radius	26IR-007-8	14872745.02	1766093.225	Channel 2	56.18	White's XLT	Munitions Debris	Frag	1	Fragment	4	3	14872744.84	1766093.048	4	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-007-9	14872707.58	1766043.321	Channel 2	51.57	White's XLT	Geology	Hot rock	1	Hot rock		0	14872707.58	1766043.321	2	5/4/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-008-1	14871797.31	1764328.436	Channel 2	3289.30	White's XLT	Cultural Debris	Concrete	1	Concrete		0	14871797.31	1764328.436	0	5/4/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-008-10	14871804.45	1764339.277	Channel 2	114.23	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		18	14871803.39	1764340.338	0	5/12/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-008-11	14871832.03	1764315.293	Channel 2	111.40	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	1.5	8	14871832.7	1764315.293	4	5/5/2012	William Sturm	Retained by Weston
1926 Explosion Radius	26IR-008-12	14871801.86	1764341.821	Channel 2	89.84	White's XLT	Cultural Debris	Concrete	1	Concrete		30	14871800.09	1764343.589	18	5/12/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-008-13	14871840.41	1764337.367	Channel 2	76.42	White's XLT	Munitions Debris	Frag	1	Fragment	3	12	14871841.41	1764337.367	4	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-008-14	14871843.28	1764329.426	Channel 2	73.51	White's XLT	Munitions Debris	Frag	1	Fragment	2	12	14871842.28	1764329.426	4	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-008-15	14871800.2	1764323.076	Channel 2	73.03	White's XLT	Cultural Debris	Wire	1	Wire	0.2	1	14871800.28	1764323.076	0	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-008-16	14871792.24	1764330.937	Channel 2	69.94	White's XLT	Cultural Debris	Wire	1	Wire	0.01	12	14871792.95	1764331.644	4	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-008-17	14871828.86	1764307.633	Channel 2	64.44	White's XLT	Munitions Debris	Frag	1	Fragment	1	3	14871829.11	1764307.633	3	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-008-18	14871830.3	1764311.349	Channel 2	63.34	White's XLT	Munitions Debris	Fuze	1	Fuze	1	8	14871830.97	1764311.349	2	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-008-19	14871824.22	1764347.429	Channel 2	55.33	White's XLT	Munitions Debris	Frag	1	Fragment	1.5	6	14871824.72	1764347.429	6	5/12/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-008-2	14871797.62	1764331.245	Channel 2	1423.17	White's XLT	Cultural Debris	Foil	1	Foil	0.01	24	14871796.21	1764332.659	2	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-008-20	14871825.13	1764360.865	Channel 2	48.06	White's XLT	Cultural Debris	Wire	1	Wire	0.1	8	14871824.46	1764360.865	4	5/12/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-008-21	14871828.54	1764304.824	Channel 2	44.07	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	12	14871829.25	1764305.531	4	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-008-22	14871817.63	1764296.082	Channel 2	38.06	White's XLT	Munitions Debris	Frag	1	Fragment	1	3	14871817.38	1764296.082	4	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-008-23	14871832.57	1764310.84	Channel 2	36.50	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	18	14871831.51	1764311.901	2	5/12/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-008-24	14871789.2	1764327.523	Channel 2	32.71	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	24	14871790.61	1764326.109	4	5/10/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-008-25	14871786.88	1764327.664	Channel 2	30.53	White's XLT	Munitions Debris	Frag	1	Fragment	3	4	14871786.88	1764327.331	6	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-008-26	14871822.68	1764343.551	Channel 2	30.30	White's XLT	Munitions Debris	Frag	1	Fragment	1	20	14871824.35	1764343.551	2	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-008-27	14871847.78	1764321.472	Channel 2	29.55	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	3	14871847.78	1764321.722	3	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-008-28	14871818.25	1764291.407	Channel 2	29.43	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14871818.25	1764291.407	0	5/4/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-008-29	14871808.21	1764309.012	Channel 2	29.03	White's XLT	Cultural Debris	Wire	1	Wire	0.01	8	14871808.21	1764309.679	0	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-008-3	14871799.52	1764337.884	Channel 2	225.54	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14871799.52	1764337.884	0	5/12/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-008-30	14871805.54	1764311.762	Channel 2	26.96	White's XLT	Cultural Debris	Wire	1	Wire	0.01	12	14871806.25	1764311.055	0	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-008-31	14871819	1764345.81	Channel 2	23.31	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	0.2	8	14871818.33	1764345.81	0	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-008-32	14871796.06	1764324.841	Channel 2	22.20	White's XLT	Cultural Debris	Wire	1	Wire	0.01	24	14871794.65	1764326.255	0	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-008-33	14871808.09	1764311.479	Channel 2	19.51	White's XLT	Cultural Debris	Wire	1	Wire	0.01	6	14871807.59	1764311.479	0	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-008-34	14871815.88	1764330.518	Channel 2	13.18	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	24	14871815.88	1764328.518	2	5/12/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-008-35	14871845.16	1764323.015	Channel 2	13.15	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	5	14871845.58	1764323.015	4	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-008-36	14871807.18	1764346.537	Channel 2	13.12	White's XLT	Cultural Debris	Wire	1	wire pit	0.1	2	14871807.18	1764346.37	3	5/12/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-008-37	14871818.69	1764330.207	Channel 2	12.13	White's XLT	Munitions Debris	Frag	1	Fragment	1.5	30	14871818.69	1764332.707	3	5/10/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-008-38	14871837.9	1764312.318	Channel 2	11.34	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	24	14871839.31	1764313.732	4	5/12/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-008-39	14871816.25	1764353.834	Channel 2	8.81	White's XLT	Cultural Debris	Wire	1	Wire	0.1	0	14871816.25	1764353.834	1	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-008-4	14871828.76	1764325.475	Channel 2	217.62	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	6	14871828.76	1764324.975	3	5/12/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-008-40	14871817.95	1764352.646	Channel 2	7.59	White's XLT	Cultural Debris	Wire	1	Wire	0.1	0	14871817.95	1764352.646	1	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-008-41	14871820.33	1764351.995	Channel 2	7.29	White's XLT	Cultural Debris	Wire	1	Wire	0.1	0	14871820.33	1764351.995	1	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-008-42	14871835.2	1764335.748	Channel 2	7.24	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	14	14871834.03	1764335.748	3	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-008-43	14871806.46	1764343.448	Channel 2	7.23	White's XLT	Cultural Debris	Nail	1	Nail	0.01	6	14871806.46	1764343.948	4	5/12/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-008-5	14871814.05	1764316.248	Channel 2	202.88	White's XLT	Munitions Debris	Frag	1	Fragment	5	14	14871815.22	1764316.248	2	5/4/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-008-6	14871800.75	1764326.071	Channel 2	244.55	White's XLT	Cultural Debris	Wire	1	Wire	0.02	24	14871802.16	1764327.485	0	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-008-7	14871795.01	1764326.611	Channel 2	158.97	White's XLT	Cultural Debris	Wire	1	Wire	0.01	24	14871793.6	1764328.025	0	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-008-8	14871828.2	1764327.347	Channel 2	154.83	White's XLT	Munitions Debris	Frag	1	Fragment	0.2	6	14871827.7	1764327.347	2	5/12/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-008-9	14871829.22	1764315.604	Channel 2	119.22	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	2	24	14871831.22	1764315.604	6	5/12/2012	William Sturm	Retained by Weston
1926 Explosion Radius	26IR-009-1	14872027.21	1766045.691	Channel 2	137.36	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14872027.21	1766045.691	0	4/22/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-009-10	14872050.23	1765999.882	Channel 2	61.37	White's XLT	Munitions Debris	Frag	1	Shared with target 13	5	10	14872049.4	1765999.882	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-11	14872033.39	1766007.587	Channel 2	58.51	White's XLT	Munitions Debris	Frag	1	Fragment	2.5	2	14872033.56	1766007.587	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-12-1	14872037.81	1766020.048	Channel 2	57.16	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	6	14872037.81	1766020.548	4	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-12-2	14872037.81	1766020.048	Channel 2	57.16	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	6	14872037.81	1766019.548	4	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-13	14872049.8	1765997.965	Channel 2	49.80	White's XLT	Munitions Debris	Frag	1	Fragment	5	10	14872050.63	1765997.965	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-14	14872071	1766023.026	Channel 2	49.75	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14872071	1766023.026	0	4/22/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-009-15	14872050.28	1765990.624	Channel 2	46.92	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	12	14872050.28	1765991.624	4	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-16	14872046.19	1765979.679	Channel 2	43.38	White's XLT	Munitions Debris	Tube	1	Tube	0.01	16	14872047.13	1765980.622	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-17-1	14872046.64	1766031.016	Channel 2	41.27	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	2	14872046.47	1766031.016	3	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-17-2	14872046.64	1766031.016	Channel 2	41.27	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	2	14872046.81	1766031.016	4	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-18	14872036.25	1765994.845	Channel 2	37.00	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	18	14872037.75	1765994.845	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26IR-009-19	14872016.58	1766024.281	Channel 2	32.84	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	18	14872015.08	1766024.281	2	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-2	14872048.62	1766018.734	Channel 2	120.82	White's XLT	Munitions Debris	Frag	1	Fragment	2.5	6	14872048.97	1766018.38	8	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-20	14872009.07	1765998.892	Channel 2	31.08	White's XLT	Munitions Debris	Frag	1	Fragment	1	0	14872009.07	1765998.892	3	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-21	14872055.06	1766031.167	Channel 2	29.18	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	6	14872055.06	1766030.667	1	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-22	14872019.75	1766020.39	Channel 2	28.93	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	6	14872019.25	1766020.39	2	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-23	14872011.72	1765999.66	Channel 2	27.53	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	4	14872011.39	1765999.66	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-24	14872011.07	1766004.5	Channel 2	26.64	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	4	14872010.74	1766004.5	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-25	14872034.3	1766037.407	Channel 2	26.52	White's XLT	Cultural Debris	Nail	1	Nail	0.01	18	14872034.3	1766038.907	2	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-009-26	14872034.09	1766035.486	Channel 2	26.45	White's XLT	Cultural Debris	Nail	1	Nail	0.01	18	14872034.09	1766036.986	2	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-009-27	14872025.31	1765992.628	Channel 2	26.27	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	12	14872024.31	1765992.628	3	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-28	14872046.11	1766028.251	Channel 2	19.56	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	0	14872046.11	1766028.251	4	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-29	14872016.14	1766001.88	Channel 2	18.78	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	6	14872015.64	1766001.88	3	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-3	14872048.08	1765996.603	Channel 2	109.45	White's XLT	Munitions Debris	Frag	1	copper Fragment	0.1	24	14872050.08	1765996.603	3	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-30	14872043.32	1765994.567	Channel 2	18.36	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	0	14872043.32	1765994.567	12	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-31-1	14872026.91	1766014.431	Channel 2	18.23	White's XLT	Geology	Hot rock	1	Hot rock		0	14872026.91	1766014.431	0	4/22/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-009-31-2	14872026.91	1766014.431	Channel 2	18.23	White's XLT	Munitions Debris	Frag	1	Fragment		3	14872026.66	1766014.431	3	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-32	14872060.84	1766003.401	Channel 2	18.18	White's XLT	Munitions Debris	Frag	1	Fragment	1	10	14872061.67	1766003.401	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-33	14872049.33	1766034.244	Channel 2	17.89	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	4	14872049	1766034.244	3	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-009-34	14872053.25	1765991.566	Channel 2	17.27	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	6	14872052.75	1765991.566	3	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-35	14872048.01	1765978.625	Channel 2	17.14	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	13	14872047.24	1765979.391	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-36	14872013.88	1766000.793	Channel 2	17.03	White's XLT	Geology	Hot rock	1	Hot rock		0	14872013.88	1766000.793	0	4/22/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-009-37	14872019.01	1766009.398	Channel 2	16.05	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	6	14872018.66	1766009.752	6	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-009-38	14872035.79	1765987.204	Channel 2	15.67	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	24	14872035.79	1765985.204	9	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-39	14872015.3	1766015.823	Channel 2	14.41	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	16	14872013.97	1766015.823	3	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-40	14872016.47	1766012.967	Channel 2	14.36	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	5	6	14872016.97	1766012.967	6	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-009-4-1	14872048.58	1765987.338	Channel 2	103.38	White's XLT	Munitions Debris	Frag	1	Fragment	3	12	14872048.58	1765988.338	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-41-1	14872044.34	1765985.027	Channel 2	14.18	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	8	14872044.34	1765984.36	3	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-009-41-2	14872044.34	1765985.027	Channel 2	14.18	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	24	14872045.75	1765986.441	4	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-42	14872051.84	1766031.704	Channel 2	13.59	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	6	14872052.19	1766031.35	1	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-4-2	14872048.58	1765987.338	Channel 2	103.38	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	6	14872048.08	1765987.338	4	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-43	14872062.07	1766027.535	Channel 2	11.67	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	12	14872062.78	1766026.828	3	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-44	14872025.87	1766042.221	Channel 2	10.84	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	6	14872026.37	1766042.221	3	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-45	14872014.26	1766015.01	Channel 2	10.70	White's XLT	Munitions Debris	Frag	1	Shared with target 39	0.1	16	14872013.32	1766015.953	3	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-46	14872048.54	1766025.533	Channel 2	10.13	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	3	14872048.54	1766025.783	3	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-47	14872003.61	1766001.607	Channel 2	10.08	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14872003.61	1766001.607	0	4/22/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-009-48	14872056.17	1766008.296	Channel 2	9.96	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	12	14872057.17	1766008.296	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-49	14872034.08	1766021.979	Channel 2	9.83	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	3	14872033.83	1766021.979	2	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-5	14872057.1	1766023.579	Channel 2	100.90	White's XLT	Munitions Debris	Frag	1	Fragment	7	1	14872057.1	1766023.496	3	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-50	14872019.15	1765993.563	Channel 2	9.81	White's XLT	Geology	Hot rock	1	Hot rock		0	14872019.15	1765993.563	0	4/22/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-009-51	14872036.63	1766024.94	Channel 2	9.71	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	12	14872037.63	1766024.94	3	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-52	14872037.75	1765999.699	Channel 2	9.48	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	6	14872037.75	1765999.199	4	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-53	14872038.12	1766028.9	Channel 2	8.50	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	15	14872038.12	1766030.15	2	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-54	14872025.16	1766036.73	Channel 2	8.40	White's XLT	Munitions Debris	Frag	1	Fragment	1	8	14872025.16	1766036.063	2	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-55-1	14872066.54	1766020.718	Channel 2	8.37	White's XLT	Geology	Hot rock	1	Hot rock		0	14872066.54	1766020.718	0	4/22/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-009-55-2	14872066.54	1766020.718	Channel 2	8.37	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	20	14872064.87	1766020.718	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-56	14872015.02	1766011.467	Channel 2	7.71	White's XLT	Munitions Debris	Frag	1	Shared with target 40	0.5	6	14872015.52	1766011.467	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-57	14872030.68	1766034.774	Channel 2	7.69	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	18	14872029.18	1766034.774	3	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-58	14872055.62	1766001.595	Channel 2	7.49	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	10	14872056.45	1766001.595	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-6	14872044.79	1766007.204	Channel 2	99.95	White's XLT	Munitions Debris	Frag	1	Fragment	1	24	14872046.79	1766007.204	2	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-7	14872043.07	1766006.065	Channel 2	95.26	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.1	6	14872043.42	1766005.711	6	4/22/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26IR-009-8	14872036.05	1766041.005	Channel 2	79.05	White's XLT	Munitions Debris	Frag	1	Fragment	2	13	14872034.97	1766041.005	2	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-009-9	14872050.21	1765988.523	Channel 2	78.22	White's XLT	Munitions Debris	Frag	1	copper Fragment	0.1	14	14872051.38	1765988.523	2	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-1	14871170.79	1764626.869	Channel 2	373.69	White's XLT	Munitions Debris	Frag	12	Fragment	0.5	10	14871170.79	1764627.702	12	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-10	14871189.45	1764615.23	Channel 2	172.85	White's XLT	Munitions Debris	Frag	1	Fragment	5	0	14871189.45	1764615.23	12	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-11-1	14871209.69	1764621.558	Channel 2	172.23	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	0.1	4	14871209.36	1764621.558	12	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-11-2	14871209.69	1764621.558	Channel 2	172.23	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	0.1	5	14871209.69	1764621.975	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-12-1	14871168.2	1764626.579	Channel 2	156.07	White's XLT	Munitions Debris	Frag	1	Fragment	20	18	14871166.7	1764626.579	4	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-12-2	14871168.2	1764626.579	Channel 2	156.07	White's XLT	Munitions Debris	Frag	3	Fragment	0.1	8	14871168.2	1764625.912	3	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-13-1	14871193.07	1764637.913	Channel 2	149.46	White's XLT	Munitions Debris	Frag	2	Fragment	4	7	14871193.65	1764637.913	8	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-13-2	14871193.07	1764637.913	Channel 2	149.46	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	4	0	14871193.07	1764637.913	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-14	14871210.57	1764613.284	Channel 2	129.79	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	10	4	14871210.9	1764613.284	3	4/21/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-010-15-1	14871181.76	1764661.377	Channel 2	116.77	White's XLT	Small Arms	Ball Casing	1	Ball Casing	0.02	6	14871182.11	1764661.023	4	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-010-15-2	14871181.76	1764661.377	Channel 2	116.77	White's XLT	Munitions Debris	Frag	2	Fragment	0.1	24	14871180.35	1764662.791	6	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-15-3	14871181.76	1764661.377	Channel 2	116.77	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	7	14871181.35	1764660.965	4	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-15-4	14871181.76	1764661.377	Channel 2	116.77	White's XLT	Munitions Debris	Primer	1	Primer, Functioned	0.02	18	14871181.76	1764662.877	4	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-15-5	14871181.76	1764661.377	Channel 2	116.77	White's XLT	Munitions Debris	Primer	1	Primer, Functioned	0.1	4	14871181.52	1764661.141	6	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-16-1	14871183.06	1764625.547	Channel 2	116.45	White's XLT	Munitions Debris	Frag	1	Fragment, wire, metal debris	0.1	18	14871183.06	1764627.047	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-16-2	14871183.06	1764625.547	Channel 2	116.45	White's XLT	Munitions Debris	Frag	1	Fragment	1	12	14871182.06	1764625.547	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-16-3	14871183.06	1764625.547	Channel 2	116.45	White's XLT	Munitions Debris	Tube	1	flash tube, Functioned	0.1	12	14871184.06	1764625.547	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-17-1	14871180.48	1764624.412	Channel 2	116.35	White's XLT	UXO	Fuze	2	BD Fuze, MK2	1	8	14871180.48	1764625.079	6	4/21/2012	Dan Hains	Demolition/Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-17-2	14871180.48	1764624.412	Channel 2	116.35	White's XLT	UXO	Fuze	2	MK 1, Point Detonating	1	4	14871180.81	1764624.412	4	4/21/2012	Dan Hains	Demolition/Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-17-3	14871180.48	1764624.412	Channel 2	116.35	White's XLT	UXO	Fuze	1	BD Fuze, MK2	1	6	14871179.98	1764624.412	3	4/21/2012	Dan Hains	Demolition/Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-17-4	14871180.48	1764624.412	Channel 2	116.35	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	18	14871180.48	1764625.912	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-18	14871222.43	1764634.755	Channel 2	110.48	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	4	14871222.67	1764634.519	2	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-19-1	14871178.59	1764610.293	Channel 2	102.57	White's XLT	Munitions Debris	Frag	1	Fragment	5	16	14871179.53	1764611.236	12	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-19-2	14871178.59	1764610.293	Channel 2	102.57	White's XLT	Munitions Debris	Fuze	5	Fuze, Functioned	5	18	14871180.09	1764610.293	12	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-19-3	14871178.59	1764610.293	Channel 2	102.57	White's XLT	Munitions Debris	Tube	5	Flash Tubes, Functioned	0.1	12	14871178.59	1764611.293	12	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-20	14871183.99	1764646.706	Channel 2	102.24	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	1	24	14871181.99	1764646.706	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-21	14871167.79	1764620.311	Channel 2	100.87	White's XLT	Munitions Debris	Frag	1	Fragment	1.5	12	14871167.79	1764619.311	6	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-2-1	14871210.24	1764607.41	Channel 2	279.39	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	0.5	12	14871209.24	1764607.41	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-2-2	14871210.24	1764607.41	Channel 2	279.39	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	1	17	14871210.24	1764608.827	15	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-22-1	14871192.98	1764632.591	Channel 2	98.66	White's XLT	Munitions Debris	Frag	1	Fragment	1.5	12	14871192.98	1764633.591	18	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-22-2	14871192.98	1764632.591	Channel 2	98.66	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	1.5	16	14871193.92	1764633.534	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-23	14871215.83	1764639.974	Channel 2	93.21	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	0.5	4	14871216.16	1764639.974	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26IR-010-24-1	14871195.59	1764604.817	Channel 2	90.93	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	1	4	14871195.26	1764604.817	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-24-2	14871195.59	1764604.817	Channel 2	90.93	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	1	6	14871196.09	1764604.817	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-24-3	14871195.59	1764604.817	Channel 2	90.93	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	0.5	18	14871197.09	1764604.817	2	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-24-4	14871195.59	1764604.817	Channel 2	90.93	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	1	4	14871195.26	1764604.817	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-24-5	14871195.59	1764604.817	Channel 2	90.93	White's XLT	Munitions Debris	Tube	1	FlashTube, Functioned	0.5	12	14871196.3	1764604.11	2	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-25	14871183.14	1764664.604	Channel 2	89.15	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	10	14871183.73	1764665.193	6	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-010-26-1	14871199.1	1764636.86	Channel 2	86.35	White's XLT	Munitions Debris	Frag	1	Fragment	7	2	14871199.1	1764637.027	8	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-26-2	14871199.1	1764636.86	Channel 2	86.35	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	6	14871199.1	1764637.36	6	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-26-3	14871199.1	1764636.86	Channel 2	86.35	White's XLT	Munitions Debris	Tube	1	Flash Tube, Functioned and Fragment	0.5	6	14871199.45	1764637.214	8	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-27-1	14871173.93	1764625.697	Channel 2	83.76	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	0.5	18	14871173.93	1764627.197	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-27-2	14871173.93	1764625.697	Channel 2	83.76	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	0.1	6	14871173.93	1764625.197	2	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-27-3	14871173.93	1764625.697	Channel 2	83.76	White's XLT	Munitions Debris	Tube	1	Fuze, Functioned	0.1	24	14871173.93	1764623.697	1	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-28-1	14871174.39	1764638.557	Channel 2	83.55	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	1	12	14871174.39	1764639.557	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-28-2	14871174.39	1764638.557	Channel 2	83.55	White's XLT	Munitions Debris	Tube	1	Flash Tube, Functioned	1	18	14871174.39	1764640.057	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-29-1	14871173.94	1764619.519	Channel 2	83.02	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	1	5	14871174.36	1764619.519	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-29-2	14871173.94	1764619.519	Channel 2	83.02	White's XLT	Munitions Debris	Fuze	2	Fuze, Functioned	2	24	14871175.35	1764618.105	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-29-3	14871173.94	1764619.519	Channel 2	83.02	White's XLT	Munitions Debris	Fuze	2	Fuze, Functioned	0.1	18	14871173.94	1764618.019	8	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-3	14871205.31	1764630.773	Channel 2	272.56	White's XLT	Munitions Debris	Frag	1	Fragment	10	6	14871205.31	1764631.273	1	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-30-1	14871192.97	1764652.445	Channel 2	78.55	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	3	6	14871192.97	1764651.945	4	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-30-2	14871192.97	1764652.445	Channel 2	78.55	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	2	24	14871194.38	1764651.031	4	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-31	14871196.86	1764631.836	Channel 2	77.85	White's XLT	Munitions Debris	Tube	1	Flash Tube, Functioned	0.1	7	14871196.86	1764632.419	2	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-32-1	14871217.47	1764643.184	Channel 2	67.27	White's XLT	Munitions Debris	Frag	3	Fragment	5	6	14871217.97	1764643.184	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-32-2	14871217.47	1764643.184	Channel 2	67.27	White's XLT	Munitions Debris	Tube	1	Fuze, Functioned	5	6	14871217.97	1764643.184	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-33	14871212.53	1764622.781	Channel 2	66.68	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.5	3	14871212.53	1764623.031	12	4/21/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26IR-010-34	14871186.59	1764618.577	Channel 2	65.28	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	0.5	18	14871186.59	1764617.077	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-35	14871176.23	1764631.713	Channel 2	63.60	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	6	14871175.73	1764631.713	3	4/21/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-010-36-1	14871175.21	1764646.8	Channel 2	61.64	White's XLT	Munitions Debris	Frag	1	Fragment	1	24	14871173.8	1764648.214	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-36-2	14871175.21	1764646.8	Channel 2	61.64	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	0.5	12	14871174.5	1764646.093	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-37	14871166.96	1764623.386	Channel 2	56.97	White's XLT	Munitions Debris	Frag	4	Fragment	0.1	6	14871166.96	1764622.886	6	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-38	14871185.39	1764630.311	Channel 2	56.92	White's XLT	Munitions Debris	Frag	1	Fragment	1	12	14871185.39	1764631.311	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-39-1	14871181.32	1764636.071	Channel 2	54.89	White's XLT	Munitions Debris	Frag	1	Fragment	1.5	12	14871182.03	1764635.364	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-39-2	14871181.32	1764636.071	Channel 2	54.89	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	1	12	14871181.32	1764635.071	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-40	14871200.32	1764649.377	Channel 2	53.68	White's XLT	Munitions Debris	Casing	1	Casing	2	2	14871200.32	1764649.544	4	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-4-1	14871194.46	1764636.233	Channel 2	270.47	White's XLT	Munitions Debris	Frag	3	Fragment	10	8	14871193.99	1764635.762	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-41-1	14871190.4	1764651.315	Channel 2	52.22	White's XLT	Munitions Debris	Frag	1	Fragment	3	15	14871191.28	1764652.199	3	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-41-2	14871190.4	1764651.315	Channel 2	52.22	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	2	24	14871191.81	1764649.901	4	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-4-2	14871194.46	1764636.233	Channel 2	270.47	White's XLT	Munitions Debris	Fuze	4	Fuze, Functioned	2	6	14871194.96	1764636.233	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-42-1	14871206.33	1764603.767	Channel 2	51.58	White's XLT	Munitions Debris	Frag	1	Fragment	1	12	14871205.33	1764603.767	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-42-2	14871206.33	1764603.767	Channel 2	51.58	White's XLT	Munitions Debris	Frag	1	Fragment	1	8	14871206.33	1764604.434	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-42-3	14871206.33	1764603.767	Channel 2	51.58	White's XLT	Munitions Debris	Tube	1	Flash Tube, Functioned	0.1	18	14871206.33	1764602.267	8	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-43-1	14871200.89	1764611.579	Channel 2	51.28	White's XLT	Munitions Debris	Frag	1	Fragment	1	8	14871201.56	1764611.579	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-43-2	14871200.89	1764611.579	Channel 2	51.28	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	1	6	14871200.89	1764612.079	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-44	14871221.09	1764641.988	Channel 2	49.73	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	0.1	2	14871221.26	1764641.988	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-45	14871185.01	1764622.119	Channel 2	49.36	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	0.5	16	14871185.95	1764621.176	2	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-46-1	14871219.51	1764633.35	Channel 2	49.01	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	1	2	14871219.51	1764633.183	2	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-46-2	14871219.51	1764633.35	Channel 2	49.01	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	0.1	7	14871218.93	1764633.35	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-47	14871227.99	1764642.602	Channel 2	47.93	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14871227.99	1764642.602	0	4/21/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-010-48-1	14871187.95	1764650.951	Channel 2	47.18	White's XLT	Munitions Debris	Casing	1	Casing	0.1	18	14871187.95	1764649.451	4	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-48-2	14871187.95	1764650.951	Channel 2	47.18	White's XLT	Munitions Debris	Frag	1	Fragment	1	12	14871188.66	1764650.244	4	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-49-1	14871205.74	1764641.989	Channel 2	46.67	White's XLT	Munitions Debris	Tube	2	Flash Tube, Functioned	1	6	14871206.09	1764642.343	8	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-49-2	14871205.74	1764641.989	Channel 2	46.67	White's XLT	Munitions Debris	Tube	1	Flash Tube, Functioned	1	12	14871205.03	1764641.282	8	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-5	14871201.35	1764622.366	Channel 2	247.81	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	6	14871201.35	1764622.866	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-50-1	14871204.31	1764609.023	Channel 2	40.99	White's XLT	Munitions Debris	Frag	1	Fragment	1	8	14871204.98	1764609.023	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-50-2	14871204.31	1764609.023	Channel 2	40.99	White's XLT	Munitions Debris	Tube	1	Flash Tube, Functioned	0.1	6	14871203.96	1764608.669	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-51-1	14871195.26	1764608.701	Channel 2	38.06	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	1	5	14871195.55	1764608.996	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-51-2	14871195.26	1764608.701	Channel 2	38.06	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	0.1	6	14871195.61	1764609.055	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-51-3	14871195.26	1764608.701	Channel 2	38.06	White's XLT	Munitions Debris	Tube	1	Flash Tube, Functioned	0.1	24	14871195.26	1764606.701	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-52	14871199.08	1764650.764	Channel 2	36.90	White's XLT	Munitions Debris	Tube	1	Flash Tube, Functioned	0.1	10	14871198.49	1764650.175	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-53	14871174.16	1764644.452	Channel 2	36.59	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	12	14871173.45	1764645.159	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-54	14871178.06	1764625.37	Channel 2	36.48	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	0.5	12	14871178.06	1764624.37	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-55	14871175.07	1764617.197	Channel 2	36.05	White's XLT	Munitions Debris	Tube	1	Flash Tube, Functioned	0.5	10	14871174.48	1764616.608	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-56-1	14871193.17	1764623.109	Channel 2	34.22	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	24	14871191.76	1764624.523	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-56-2	14871193.17	1764623.109	Channel 2	34.22	White's XLT	Munitions Debris	Tube	1	Flash Tube, Functioned	0.5	12	14871193.17	1764622.109	24	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-57	14871198.91	1764641.095	Channel 2	34.01	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	2	6	14871198.41	1764641.095	4	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-58-1	14871187.21	1764644.427	Channel 2	32.09	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	8	14871187.21	1764643.76	4	4/21/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-010-58-2	14871187.21	1764644.427	Channel 2	32.09	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	1	16	14871188.15	1764645.37	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-58-3	14871187.21	1764644.427	Channel 2	32.09	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	0.5	12	14871187.21	1764645.427	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-59-1	14871194.36	1764621.124	Channel 2	29.43	White's XLT	Munitions Debris	Frag	1	Fragment	1	4	14871194.6	1764621.36	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-59-2	14871194.36	1764621.124	Channel 2	29.43	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	1	12	14871195.07	1764620.417	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-60-1	14871197.94	1764624.301	Channel 2	29.28	White's XLT	Munitions Debris	Frag	1	Shared with targets 64 and 79	0.5	8	14871197.47	1764623.83	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-60-2	14871197.94	1764624.301	Channel 2	29.28	White's XLT	Munitions Debris	Fuze	1	Shared with target 4	1.5	5	14871198.36	1764624.301	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-6-1	14871176.92	1764635.961	Channel 2	244.33	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	12	14871175.92	1764635.961	4	4/21/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-010-61-1	14871167.34	1764614.444	Channel 2	28.11	White's XLT	Munitions Debris	Frag	1	Fragment	4	12	14871166.63	1764613.737	6	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-61-2	14871167.34	1764614.444	Channel 2	28.11	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	1	6	14871167.69	1764614.798	8	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-6-2	14871176.92	1764635.961	Channel 2	244.33	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	0.5	24	14871178.33	1764634.547	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-62-1	14871208.14	1764598.208	Channel 2	26.78	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14871208.14	1764598.208	0	4/21/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-010-62-2	14871208.14	1764598.208	Channel 2	26.78	White's XLT	Munitions Debris	Other MD	1	Other MD	0.01	24	14871210.14	1764598.208	0	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-63	14871185.63	1764611.327	Channel 2	26.36	White's XLT	Munitions Debris	Fuze	8	Fuze, Functioned	5	18	14871185.63	1764609.827	12	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-6-3	14871176.92	1764635.961	Channel 2	244.33	White's XLT	Munitions Debris	Fuze	2	Fuze, Functioned	0.5	6	14871177.42	1764635.961	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-64	14871196.08	1764624.509	Channel 2	24.63	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	3	14871195.9	1764624.332	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-65	14871197.97	1764655.823	Channel 2	23.46	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	1	2	14871197.97	1764655.99	4	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-66	14871176.48	1764621.015	Channel 2	21.94	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	0.5	8	14871176.48	1764621.682	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-67	14871188.25	1764642.32	Channel 2	21.88	White's XLT	Munitions Debris	Frag	1	Fragment	1	4	14871187.92	1764642.32	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-68-1	14871223.49	1764637.6	Channel 2	21.08	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	4	14871223.25	1764637.364	2	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26IR-010-68-2	14871223.49	1764637.6	Channel 2	21.08	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	3	14871223.74	1764637.6	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-69-1	14871184.27	1764657.575	Channel 2	19.81	White's XLT	Munitions Debris	Frag	1	Fragment	1	12	14871184.27	1764656.575	2	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-69-2	14871184.27	1764657.575	Channel 2	19.81	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	0.1	24	14871184.27	1764659.575	6	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-69-3	14871184.27	1764657.575	Channel 2	19.81	White's XLT	Munitions Debris	Primer	1	Primer, Functioned	0.02	7	14871184.27	1764658.158	4	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-7	14871211.55	1764610.351	Channel 2	229.15	White's XLT	Munitions Debris	Frag	1	Fragment	5	0	14871211.55	1764610.351	8	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-70	14871189.88	1764620.845	Channel 2	18.69	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	0.5	0	14871189.88	1764620.845	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-71	14871185.21	1764640.148	Channel 2	15.34	White's XLT	Munitions Debris	Frag	1	Fragment	2	6	14871184.86	1764639.794	8	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-72	14871194.59	1764656.081	Channel 2	14.91	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	2	12	14871195.3	1764655.374	4	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-73	14871182.17	1764637.98	Channel 2	14.48	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	8	14871181.7	1764638.451	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-74-1	14871192.64	1764656.33	Channel 2	13.01	White's XLT	Munitions Debris	Casing	1	Casing	0.02	8	14871192.17	1764655.859	4	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-74-2	14871192.64	1764656.33	Channel 2	13.01	White's XLT	Munitions Debris	Frag	2	Fragment	1	18	14871191.58	1764657.391	4	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-74-3	14871192.64	1764656.33	Channel 2	13.01	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	2	12	14871193.35	1764655.623	4	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-75	14871207.58	1764636.81	Channel 2	12.67	White's XLT	Munitions Debris	Tube	10	Flash Tube, Functioned	0.5	12	14871208.29	1764637.517	9	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-76-1	14871195.07	1764647.372	Channel 2	11.95	White's XLT	Munitions Debris	Frag	1	Fragment	1	4	14871194.74	1764647.372	4	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-76-2	14871195.07	1764647.372	Channel 2	11.95	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	1	8	14871195.07	1764646.705	6	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-77-1	14871214.08	1764616.484	Channel 2	11.66	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	3	14871214.08	1764616.734	2	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-77-2	14871214.08	1764616.484	Channel 2	11.66	White's XLT	Munitions Debris	Frag	1	Fragment	1	3	14871214.08	1764616.234	8	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-78-1	14871194.58	1764612.32	Channel 2	11.02	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	8	14871195.05	1764611.849	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-78-2	14871194.58	1764612.32	Channel 2	11.02	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	12	14871194.58	1764613.32	2	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-79-1	14871197	1764626.591	Channel 2	10.14	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	7	14871197	1764627.174	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-79-2	14871197	1764626.591	Channel 2	10.14	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	1.5	8	14871196.53	1764626.12	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-8	14871201.5	1764617.121	Channel 2	207.16	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	0	14871201.5	1764617.121	15	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-80-1	14871178.21	1764653.707	Channel 2	9.55	White's XLT	Munitions Debris	Casing	1	Casing	0.02	15	14871177.33	1764652.823	6	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-80-2	14871178.21	1764653.707	Channel 2	9.55	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	12	14871178.92	1764654.414	6	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-80-3	14871178.21	1764653.707	Channel 2	9.55	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	2	8	14871177.74	1764654.178	6	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-80-4	14871178.21	1764653.707	Channel 2	9.55	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	1	8	14871178.21	1764654.374	6	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-81-1	14871184.02	1764642.127	Channel 2	8.96	White's XLT	Munitions Debris	Casing	1	Casing	1	2	14871184.02	1764642.294	2	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-81-2	14871184.02	1764642.127	Channel 2	8.96	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	1	12	14871184.02	1764643.127	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-81-3	14871184.02	1764642.127	Channel 2	8.96	White's XLT	Munitions Debris	Tube	1	Flash Tube, Functioned	1	24	14871182.61	1764643.541	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-82	14871200.37	1764644.383	Channel 2	8.03	White's XLT	Munitions Debris	Tube	1	Flash Tube, Functioned	0.02	12	14871201.08	1764645.09	6	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-83	14871182.97	1764629.532	Channel 2	7.77	White's XLT	Munitions Debris	Frag	1	Fragment	1	12	14871183.97	1764629.532	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-010-84	14871201.62	1764627.642	Channel 2	7.69	White's XLT	Cultural Debris	Nail	1	Nail	0.01	8	14871200.95	1764627.642	4	4/21/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-010-9	14871171.32	1764618.749	Channel 2	204.91	White's XLT	Munitions Debris	Tube	1	Flash Tube, Functioned	0.01	6	14871171.32	1764618.249	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-011-1	14869952.62	1764594.209	Channel 2	777.40	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	10	7	14869953.03	1764593.797	2	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-10	14869948.3	1764632.483	Channel 2	86.86	White's XLT	Cultural Debris	Rebar	1	Rebar	1.5	3	14869948.3	1764632.733	12	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-11	14869972.76	1764616.128	Channel 2	74.48	White's XLT	Munitions Debris	Frag	1	Fragment	3	15	14869971.51	1764616.128	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-011-12	14869945.02	1764623.606	Channel 2	73.98	White's XLT	Cultural Debris	Nail	1	Nail	0.02	5	14869944.6	1764623.606	3	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-13	14869929.85	1764637.971	Channel 2	72.40	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14869929.85	1764637.971	0	4/22/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-011-14	14869966.01	1764598.628	Channel 2	68.85	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	1	14869965.95	1764598.687	2	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-011-15-1	14869937.41	1764640.892	Channel 2	63.66	White's XLT	Cultural Debris	Wire	1	Wire		24	14869937.41	1764642.892	0	4/22/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-011-15-2	14869937.41	1764640.892	Channel 2	63.66	White's XLT	Cultural Debris	Horseshoe	1	Horseshoe	0.5	18	14869937.41	1764639.392	12	4/22/2012	Dan Hains	Transferred to PTA Archaeologist
1926 Explosion Radius	26IR-011-15-3	14869937.41	1764640.892	Channel 2	63.66	White's XLT	Cultural Debris	Rebar	1	Rebar	1	8	14869937.41	1764640.225	6	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-16	14869936.42	1764637.511	Channel 2	63.63	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1.5	12	14869937.42	1764637.511	3	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-17	14869952.94	1764629.909	Channel 2	63.28	White's XLT	Cultural Debris	Rebar	1	Shared with target 27	0.5	12	14869953.94	1764629.909	6	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-18	14869979.58	1764633.756	Channel 2	57.42	White's XLT	Munitions Debris	Frag	1	Fragment	3	12	14869979.58	1764632.756	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-011-19	14869963.91	1764649.644	Channel 2	56.68	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	8	14869963.91	1764650.311	6	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-2	14869954.68	1764594.361	Channel 2	401.45	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 1	10	6	14869954.18	1764594.361	2	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-20	14869974.44	1764616.471	Channel 2	56.44	White's XLT	Munitions Debris	Frag	1	Fragment	1	6	14869974.44	1764615.971	2	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-011-21-1	14869954.98	1764612.89	Channel 2	51.20	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	1	14869955.06	1764612.89	3	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-011-21-2	14869954.98	1764612.89	Channel 2	51.20	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	1	14869955.04	1764612.831	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-011-22	14869977.31	1764602.358	Channel 2	50.38	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	1	14869977.37	1764602.417	3	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-23	14869945.4	1764590.878	Channel 2	48.44	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14869945.4	1764590.878	0	4/22/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-011-24	14869992.57	1764607.5	Channel 2	47.05	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14869992.57	1764607.5	0	4/22/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-011-25	14869963.73	1764599.141	Channel 2	46.65	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	8	14869964.2	1764598.67	2	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-26-1	14869980.74	1764617.813	Channel 2	46.42	White's XLT	Munitions Debris	Frag	1	Fragment	2	8	14869981.41	1764617.813	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-011-26-2	14869980.74	1764617.813	Channel 2	46.42	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	4	14869980.41	1764617.813	4	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-27	14869956.32	1764627.97	Channel 2	40.16	White's XLT	Cultural Debris	Rebar	1	Shared with target 27	0.5	12	14869957.03	1764628.677	6	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-28	14869952.99	1764612.231	Channel 2	37.45	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	1	14869952.93	1764612.29	2	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-011-29	14869957.44	1764643.4	Channel 2	31.86	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	18	14869957.44	1764641.9	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-011-3	14869957.46	1764618.132	Channel 2	183.62	White's XLT	Munitions Debris	Frag	1	Fragment	5	2	14869957.46	1764617.965	2	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-011-30-1	14869981.31	1764609.683	Channel 2	28.94	White's XLT	Munitions Debris	Frag	1	Fragment	1.5	12	14869982.02	1764608.976	12	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-011-30-2	14869981.31	1764609.683	Channel 2	28.94	White's XLT	Munitions Debris	Frag	1	Fragment	1	6	14869981.31	1764610.183	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-011-30-3	14869981.31	1764609.683	Channel 2	28.94	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	18	14869980.25	1764608.622	4	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-30-4	14869981.31	1764609.683	Channel 2	28.94	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	18	14869982.81	1764609.683	8	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-31	14869970.02	1764643.871	Channel 2	25.68	White's XLT	Munitions Debris	Frag	1	Shared with target 37	0.1	6	14869970.02	1764644.371	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-011-32	14869961.58	1764599.274	Channel 2	24.95	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	2	14869961.46	1764599.156	1	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-011-33	14869954.88	1764610.013	Channel 2	24.85	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	7	14869954.88	1764610.596	4	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-34-1	14869946.95	1764592.549	Channel 2	22.11	White's XLT	Cultural Debris	Nail	1	Nail	0.01	7	14869946.54	1764592.137	2	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-34-2	14869946.95	1764592.549	Channel 2	22.11	White's XLT	Cultural Debris	Nail	1	Nail	0.01	4	14869946.71	1764592.785	2	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-35	14869966.8	1764609.314	Channel 2	20.99	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	12	14869966.8	1764608.314	6	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-36	14869983.91	1764620.65	Channel 2	19.30	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	6	14869983.41	1764620.65	3	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-37	14869968.63	1764642.357	Channel 2	18.47	White's XLT	Munitions Debris	Frag	1	Shared with target 31	0.1	6	14869968.63	1764641.857	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-011-38	14869985.09	1764624.094	Channel 2	18.09	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	24	14869986.5	1764622.68	6	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-39	14869942.89	1764611.216	Channel 2	17.30	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	4	14869942.89	1764610.883	3	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-4	14869970.02	1764618.065	Channel 2	147.21	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	18	14869968.96	1764619.126	4	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-40	14869973.89	1764600.281	Channel 2	14.83	White's XLT	Cultural Debris	Nail	1	Nail	0.02	9	14869973.36	1764599.751	6	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-41	14869966.14	1764611.309	Channel 2	14.32	White's XLT	Cultural Debris	Nail	1	Nail	0.01	6	14869965.79	1764611.663	6	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-42	14869953.42	1764643.126	Channel 2	13.60	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	12	14869952.71	1764642.419	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-011-43-1	14869941.92	1764601.417	Channel 2	11.46	White's XLT	Cultural Debris	Nail	1	Nail	0.02	6	14869941.92	1764601.917	6	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-43-2	14869941.92	1764601.417	Channel 2	11.46	White's XLT	Cultural Debris	Nail	3	Nail	0.01	4	14869941.59	1764601.417	4	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-43-3	14869941.92	1764601.417	Channel 2	11.46	White's XLT	Cultural Debris	Nail	1	Nail	0.02	5	14869941.63	1764601.712	3	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-44	14869967.66	1764612.443	Channel 2	10.65	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	24	14869969.66	1764612.443	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-011-45-1	14869989.08	1764605.296	Channel 2	10.34	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	24	14869991.08	1764605.296	4	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-45-2	14869989.08	1764605.296	Channel 2	10.34	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	18	14869988.02	1764604.235	6	4/22/2012	Dan Hains	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26IR-011-46	14869939.73	1764633.866	Channel 2	9.69	White's XLT	Cultural Debris	Nail	1	Nail	0.01	6	14869939.73	1764633.366	6	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-47	14869959.96	1764642.128	Channel 2	9.03	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	6	14869959.46	1764642.128	9	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-011-5-1	14869942.27	1764625.542	Channel 2	145.24	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	4	14869941.94	1764625.542	4	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-011-5-2	14869942.27	1764625.542	Channel 2	145.24	White's XLT	Cultural Debris	Rebar	1	Rebar	0.5	8	14869942.94	1764625.542	4	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-6	14869943.79	1764626.676	Channel 2	123.64	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	6	14869943.79	1764627.176	3	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-011-7	14869941.25	1764622.889	Channel 2	120.56	White's XLT	Cultural Debris	Nail	1	Nail	0.02	6	14869940.75	1764622.889	3	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-011-8-1	14869950.12	1764627.924	Channel 2	119.35	White's XLT	Cultural Debris	Horseshoe	1	Horseshoe	0.5	12	14869949.12	1764627.924	6	4/22/2012	Dan Hains	Transferred to PTA Archaeologist
1926 Explosion Radius	26IR-011-8-2	14869950.12	1764627.924	Channel 2	119.35	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	1	12	14869949.12	1764627.924	6	4/22/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26IR-011-9	14869946.46	1764631.982	Channel 2	93.06	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	4	14869946.46	1764631.649	4	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-012-1	14870069.09	1765741.742	Channel 2	359.23	White's XLT	Munitions Debris	Frag	1	Shared with target 3	20	0	14870069.09	1765741.742	9	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-10-1	14870103.02	1765769.389	Channel 2	128.68	White's XLT	Munitions Debris	Frag	1	Fragment	4	12	14870103.73	1765768.682	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-10-2	14870103.02	1765769.389	Channel 2	128.68	White's XLT	Munitions Debris	Frag	1	Fragment	4	4	14870103.35	1765769.389	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-11	14870086.52	1765747.116	Channel 2	110.21	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.5	3	14870086.34	1765746.939	8	4/21/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26IR-012-12	14870077.26	1765747.079	Channel 2	109.39	White's XLT	Munitions Debris	Frag	1	Fragment	20	4	14870077.59	1765747.079	2	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-13	14870093.03	1765715.72	Channel 2	107.59	White's XLT	Munitions Debris	Frag	1	Fragment	1.5	0	14870093.03	1765715.72	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-14	14870093.1	1765763.245	Channel 2	105.03	White's XLT	Munitions Debris	Frag	1	Shared with target 9	5	2	14870093.22	1765763.127	2	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-15	14870087.33	1765713.945	Channel 2	93.06	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	12	14870088.33	1765713.945	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-16	14870092.55	1765743.184	Channel 2	86.45	White's XLT	Munitions Debris	Frag	1	Fragment	1	0	14870092.55	1765743.184	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-17-1	14870080	1765731.802	Channel 2	76.51	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	12	14870079.29	1765731.095	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-17-2	14870080	1765731.802	Channel 2	76.51	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	0	14870080	1765731.802	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-18-1	14870086.16	1765711.69	Channel 2	72.40	White's XLT	Munitions Debris	Frag	1	Fragment	2	16	14870086.16	1765710.357	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-18-2	14870086.16	1765711.69	Channel 2	72.40	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	16	14870087.1	1765710.747	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-19	14870081.54	1765732.437	Channel 2	64.91	White's XLT	Munitions Debris	Frag	1	Fragment	2	3	14870081.29	1765732.437	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-20	14870110.59	1765731.965	Channel 2	61.45	White's XLT	Munitions Debris	Frag	1	Fragment	3	4	14870110.83	1765732.201	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-21	14870074.79	1765733.27	Channel 2	59.83	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	4	14870074.46	1765733.27	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-2-1	14870089.74	1765766.066	Channel 2	336.61	White's XLT	Munitions Debris	Frag	2	Fragment	7.5	7	14870090.15	1765765.654	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-22	14870100.62	1765724.055	Channel 2	59.04	White's XLT	Munitions Debris	Frag	1	Fragment	3	0	14870100.62	1765724.055	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-2-2	14870089.74	1765766.066	Channel 2	336.61	White's XLT	Munitions Debris	Frag	1	Fragment	7.5	5	14870090.03	1765766.361	9	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-23	14870071.74	1765732.503	Channel 2	57.34	White's XLT	Munitions Debris	Frag	1	Fragment	1.5	0	14870071.74	1765732.503	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-24	14870089.83	1765713.201	Channel 2	56.45	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	4	14870089.59	1765712.965	8	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-25	14870103.95	1765762.699	Channel 2	54.46	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	2	4	14870103.62	1765762.699	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-26	14870103.82	1765747.423	Channel 2	50.53	White's XLT	Munitions Debris	Frag	1	Fragment	3	3	14870103.82	1765747.173	8	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-27-1	14870111.15	1765750.352	Channel 2	49.74	White's XLT	Munitions Debris	Frag	1	Fragment	2	12	14870111.86	1765749.645	8	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-27-2	14870111.15	1765750.352	Channel 2	49.74	White's XLT	Munitions Debris	Frag	1	Fragment	1	8	14870111.15	1765751.019	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-28-1	14870113.22	1765733.664	Channel 2	49.33	White's XLT	Munitions Debris	Frag	1	Fragment	1	12	14870112.51	1765734.371	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-28-2	14870113.22	1765733.664	Channel 2	49.33	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	2	14870113.22	1765733.831	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-29-1	14870120.98	1765726.553	Channel 2	48.77	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	12	14870120.98	1765727.553	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-29-2	14870120.98	1765726.553	Channel 2	48.77	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	18	14870119.48	1765726.553	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-29-3	14870120.98	1765726.553	Channel 2	48.77	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14870120.98	1765726.553	0	4/21/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-012-3	14870067.15	1765741.301	Channel 2	323.76	White's XLT	Munitions Debris	Frag	1	Fragment	20	8	14870067.82	1765741.301	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-30	14870072.36	1765755.716	Channel 2	45.56	White's XLT	Munitions Debris	Frag	1	Fragment	2	1	14870072.28	1765755.716	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-31-1	14870102.4	1765762.064	Channel 2	44.86	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	8	14870102.4	1765761.397	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-31-2	14870102.4	1765762.064	Channel 2	44.86	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	2	4	14870102.73	1765762.064	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-32	14870056.14	1765752.842	Channel 2	44.17	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14870056.14	1765752.842	0	4/21/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-012-33	14870070.49	1765743.949	Channel 2	44.06	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14870070.49	1765743.949	0	4/21/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-012-34	14870072.92	1765754.348	Channel 2	41.47	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	6	14870072.92	1765754.848	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-35	14870079.54	1765722.194	Channel 2	40.91	White's XLT	Munitions Debris	Frag	1	Fragment	2	8	14870079.07	1765721.723	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-36	14870114.86	1765735.723	Channel 2	40.35	White's XLT	Munitions Debris	Frag	1	Fragment	3	8	14870114.19	1765735.723	12	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-37	14870098.89	1765759.417	Channel 2	39.15	White's XLT	Munitions Debris	Frag	3	Fragment	0.5	12	14870097.89	1765759.417	2	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-38	14870082.4	1765725.976	Channel 2	37.89	White's XLT	Munitions Debris	Frag	1	Fragment	3	2	14870082.52	1765725.858	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-39-1	14870091.27	1765720.002	Channel 2	30.77	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	0	14870091.27	1765720.002	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-39-2	14870091.27	1765720.002	Channel 2	30.77	White's XLT	Munitions Debris	Frag	1	Fragment	1	6	14870090.77	1765720.002	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-4	14870079.41	1765748.799	Channel 2	312.97	White's XLT	Munitions Debris	Frag	1	Fragment	20	4	14870079.41	1765748.466	2	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-40	14870075.03	1765707.13	Channel 2	29.72	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14870075.03	1765707.13	0	4/21/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-012-41-1	14870077.85	1765736.529	Channel 2	28.80	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	0	14870077.85	1765736.529	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-41-2	14870077.85	1765736.529	Channel 2	28.80	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	12	14870078.56	1765735.822	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-42	14870063.61	1765745.306	Channel 2	25.76	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	0	14870063.61	1765745.306	9	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-43	14870096.79	1765717.139	Channel 2	24.65	White's XLT	Munitions Debris	Frag	1	Fragment	1	24	14870098.79	1765717.139	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-44-1	14870107.42	1765728.457	Channel 2	20.90	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	6	14870107.42	1765727.957	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-44-2	14870107.42	1765728.457	Channel 2	20.90	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	6	14870107.42	1765728.957	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-45	14870072.88	1765717.45	Channel 2	20.53	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	4	14870072.64	1765717.214	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-46	14870093.61	1765719.171	Channel 2	20.42	White's XLT	Munitions Debris	Frag	1	Fragment	1.5	6	14870093.26	1765718.817	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-47	14870059.37	1765745.161	Channel 2	20.35	White's XLT	Munitions Debris	Frag	1	Fragment	3	24	14870057.96	1765743.747	8	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-48-1	14870089.23	1765720.568	Channel 2	20.13	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	6	14870088.88	1765720.214	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-48-2	14870089.23	1765720.568	Channel 2	20.13	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	2	14870089.06	1765720.568	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-48-3	14870089.23	1765720.568	Channel 2	20.13	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14870089.23	1765720.568	0	4/21/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-012-49	14870114.37	1765742.538	Channel 2	20.11	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	4	14870114.37	1765742.205	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-5	14870087.28	1765760.848	Channel 2	302.76	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	12	14870087.28	1765761.848	2	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-50	14870074.25	1765719.009	Channel 2	18.21	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	0.1	3	14870074	1765719.009	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-51	14870095.25	1765731.265	Channel 2	16.99	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	0	14870095.25	1765731.265	8	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-52	14870090.07	1765738.954	Channel 2	14.90	White's XLT	Munitions Debris	Frag	1	Fragment	2	0	14870090.07	1765738.954	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-53	14870100.06	1765718.612	Channel 2	13.49	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	4	14870099.73	1765718.612	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-54	14870116.52	1765726.795	Channel 2	13.19	White's XLT	Munitions Debris	Frag	1	Fragment	1	12	14870115.52	1765726.795	12	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-55-1	14870109.66	1765738.601	Channel 2	12.23	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	6	14870110.01	1765738.247	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-55-2	14870109.66	1765738.601	Channel 2	12.23	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	24	14870108.25	1765737.187	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-55-3	14870109.66	1765738.601	Channel 2	12.23	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	12	14870109.66	1765739.601	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-56-1	14870105.69	1765732.158	Channel 2	10.73	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	4	14870105.45	1765731.922	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-56-2	14870105.69	1765732.158	Channel 2	10.73	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	4	14870105.93	1765731.922	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-57-1	14870068.64	1765727.734	Channel 2	10.68	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	9	14870067.89	1765727.734	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-57-2	14870068.64	1765727.734	Channel 2	10.68	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	4	14870068.97	1765727.734	2	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-58	14870071.55	1765746.947	Channel 2	9.42	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	14	14870070.73	1765747.772	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-59-1	14870100.88	1765728.771	Channel 2	8.46	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	11	14870100.23	1765729.419	6	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-59-2	14870100.88	1765728.771	Channel 2	8.46	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	12	14870100.88	1765729.771	8	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-6	14870085.94	1765759.704	Channel 2	270.74	White's XLT	Munitions Debris	Frag	1	Shared with target 5	12.5	3	14870085.76	1765759.527	2	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26IR-012-60-1	14870084.99	1765735.314	Channel 2	8.23	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	7	14870085.4	1765734.902	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-60-2	14870084.99	1765735.314	Channel 2	8.23	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	12	14870085.7	1765736.021	4	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-61	14870060.22	1765748.192	Channel 2	7.26	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	18	14870060.22	1765746.692	12	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-7	14870081.41	1765750.128	Channel 2	158.29	White's XLT	Munitions Debris	Frag	3	Fragment	0.5	16	14870082.35	1765749.185	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-8	14870087.97	1765712.436	Channel 2	157.19	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	8	14870087.5	1765712.907	3	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-012-9	14870095.24	1765762.922	Channel 2	138.98	White's XLT	Munitions Debris	Frag	1	Fragment	5	8	14870094.77	1765763.393	2	4/21/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-013-1	14869238.79	1763982.089	Channel 2	376.75	White's XLT	Munitions Debris	Frag	1	Shared with target 4	30	6	14869238.79	1763982.589	0	4/28/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-013-10	14869248.77	1763937.772	Channel 2	30.51	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14869248.77	1763937.772	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-013-11	14869262.37	1763975.237	Channel 2	26.06	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	3	14869262.37	1763975.487	4	4/28/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-013-12	14869263.16	1763972.58	Channel 2	20.98	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	3	14869263.16	1763972.83	4	4/28/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-013-13	14869225.89	1764000.339	Channel 2	14.33	White's XLT	Munitions Debris	Frag	1	Fragment	1	18	14869225.89	1764001.839	6	4/28/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-013-14	14869236.01	1763964.282	Channel 2	12.12	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	10	14869236.01	1763965.115	2	4/28/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-013-15	14869229.65	1763990.574	Channel 2	9.61	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	12	14869228.65	1763990.574	8	4/28/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-013-16	14869234.76	1763962.35	Channel 2	9.56	White's XLT	Geology	Hot rock	1	Hot rock		0	14869234.76	1763962.35	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-013-17	14869230.52	1763988.057	Channel 2	8.53	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	12	14869229.52	1763988.057	8	4/28/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-013-18	14869248.44	1763949.554	Channel 2	7.37	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	24	14869247.03	1763948.14	2	4/28/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-013-19	14869243.58	1763970.017	Channel 2	7.22	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	8	14869243.58	1763970.684	4	4/28/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-013-2	14869234.13	1763969.383	Channel 2	371.87	White's XLT	Munitions Debris	Frag	1	Fragment	5	4	14869233.8	1763969.383	0	4/28/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-013-3	14869232.89	1763967.089	Channel 2	295.73	White's XLT	Munitions Debris	Frag	1	Fragment	5	4	14869232.56	1763967.089	0	4/28/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-013-4	14869240.36	1763980.864	Channel 2	244.59	White's XLT	Munitions Debris	Frag	1	Fragment	30	4	14869240.36	1763981.197	0	4/28/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-013-5	14869241.87	1763962.776	Channel 2	206.62	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.5	6	14869241.87	1763963.276	4	4/28/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26IR-013-6	14869239.84	1763963.134	Channel 2	167.28	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.5	6	14869239.84	1763962.634	4	4/28/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26IR-013-7	14869272.14	1763980.968	Channel 2	68.92	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14869272.14	1763980.968	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-013-8	14869204.88	1763961.505	Channel 2	59.00	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	8	14869204.88	1763960.838	2	4/28/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-013-9	14869228.54	1764005.125	Channel 2	53.57	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0	0	14869228.54	1764005.125	0	4/28/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26IR-014-1	14869551.11	1765428.666	Channel 2	468.47	White's XLT	Munitions Debris	Frag	1	Fragment	5	0	14869551.11	1765428.666	15	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-10	14869563.57	1765439.563	Channel 2	151.90	White's XLT	Cultural Debris	Nail	1	Nail	0.01	24	14869564.98	1765438.149	3	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-014-11	14869523.83	1765440.362	Channel 2	151.25	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	4	14869523.83	1765440.695	2	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-014-12-1	14869538.39	1765415.546	Channel 2	138.99	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	4	14869538.63	1765415.31	4	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-12-2	14869538.39	1765415.546	Channel 2	138.99	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	0	14869538.39	1765415.546	2	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-13	14869538.11	1765434.254	Channel 2	125.34	White's XLT	Munitions Debris	Projectile	1	4", Shared with target 29	15	14	14869537.29	1765433.429	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-14	14869562.93	1765441.706	Channel 2	121.94	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	14	14869562.11	1765440.881	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-15-1	14869577.33	1765456.648	Channel 2	118.36	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	8	14869577.8	1765457.119	18	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-15-2	14869577.33	1765456.648	Channel 2	118.36	White's XLT	Munitions Debris	Frag	1	Fragment	1.5	4	14869577.33	1765456.981	4	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-16	14869529.94	1765434.232	Channel 2	117.14	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	8	14869529.47	1765433.761	3	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-17-1	14869551.08	1765463.981	Channel 2	113.94	White's XLT	Cultural Debris	Rebar	1	Rebar	2	24	14869553.08	1765463.981	3	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-014-17-2	14869551.08	1765463.981	Channel 2	113.94	White's XLT	Cultural Debris	Nail	1	Nail	0.01	12	14869550.08	1765463.981	6	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-014-18	14869530.75	1765427.609	Channel 2	112.80	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	11	14869530.1	1765426.961	4	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-19	14869526.84	1765433.322	Channel 2	112.47	White's XLT	Munitions Debris	Frag	1	Shared with target 26	0.01	2	14869527.01	1765433.322	4	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-2	14869570.68	1765445.924	Channel 2	430.00	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	12	14869571.68	1765445.924	8	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-20	14869536.24	1765453.604	Channel 2	111.73	White's XLT	Cultural Debris	Wire	1	Wire	0.02	6	14869535.74	1765453.604	3	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-014-21	14869527.32	1765431.225	Channel 2	89.16	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	2	14869527.15	1765431.225	4	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-22	14869525.91	1765419.024	Channel 2	82.87	White's XLT	Munitions Debris	Frag	2	Fragment	0.02	1	14869525.85	1765418.965	8	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-23	14869518.59	1765421.13	Channel 2	79.28	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14869518.59	1765421.13	0	4/22/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-014-24	14869526.15	1765441.677	Channel 2	76.28	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	18	14869526.15	1765440.177	2	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-25	14869553.42	1765446.492	Channel 2	72.15	White's XLT	Cultural Debris	Pipe	1	Pipe	0.1	18	14869554.48	1765445.431	4	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-014-26	14869538.39	1765454.954	Channel 2	70.37	White's XLT	Munitions Debris	Frag	1	Shared with target 19	0.01	2	14869538.56	1765454.954	4	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-27	14869544.55	1765438.849	Channel 2	68.29	White's XLT	Munitions Debris	Frag	1	Fragment	1	7	14869544.96	1765439.261	4	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-28	14869543.4	1765441.123	Channel 2	60.19	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	5	14869543.69	1765441.418	4	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-29	14869540.11	1765433.611	Channel 2	58.00	White's XLT	Munitions Debris	Projectile	1	4"	15	13	14869539.34	1765434.377	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-3	14869550.46	1765430.8	Channel 2	421.86	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	7	14869550.87	1765431.212	4	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-30	14869526.03	1765448.149	Channel 2	52.57	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	18	14869527.09	1765447.088	4	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-31	14869543.41	1765443.071	Channel 2	50.98	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	4	14869543.65	1765443.307	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-32	14869579.88	1765455.83	Channel 2	49.38	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14869579.88	1765455.83	0	4/22/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-014-33-1	14869523.08	1765423.708	Channel 2	40.99	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	12	14869522.08	1765423.708	8	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-33-2	14869523.08	1765423.708	Channel 2	40.99	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	12	14869524.08	1765423.708	8	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-34-1	14869532.48	1765469.069	Channel 2	37.36	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	1	18	14869532.48	1765470.569	4	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-34-2	14869532.48	1765469.069	Channel 2	37.36	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14869532.48	1765469.069	0	4/22/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-014-35-1	14869566.1	1765407.821	Channel 2	35.25	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	12	14869566.1	1765406.821	8	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-35-2	14869566.1	1765407.821	Channel 2	35.25	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	16	14869564.77	1765407.821	4	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-014-35-3	14869566.1	1765407.821	Channel 2	35.25	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14869566.1	1765407.821	0	4/22/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-014-36	14869528.32	1765449.421	Channel 2	28.52	White's XLT	Cultural Debris	Nail	1	Nail	3	12	14869527.32	1765449.421	3	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-014-37	14869565.25	1765453.839	Channel 2	27.37	White's XLT	Cultural Debris	Nail	1	Nail	0.01	9	14869565.78	1765454.369	4	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-014-38-1	14869535.96	1765449.423	Channel 2	26.99	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	12.5	24	14869537.96	1765449.423	3	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-014-38-2	14869535.96	1765449.423	Channel 2	26.99	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	12.5	24	14869537.96	1765449.423	4	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-014-39	14869565.85	1765451.541	Channel 2	25.62	White's XLT	Munitions Debris	Tube	1	Tube	1	5	14869566.14	1765451.836	2	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-4	14869540.12	1765427.47	Channel 2	340.05	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	7	14869540.12	1765428.053	1	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-40	14869566.54	1765455.254	Channel 2	22.12	White's XLT	Cultural Debris	Nail	2	Nail	0.01	24	14869567.95	1765456.668	12	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-014-41	14869529.8	1765449.006	Channel 2	20.17	White's XLT	Geology	Hot rock	1	Hot rock		3	14869529.55	1765449.006	0	4/22/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-014-42	14869565.55	1765422.5	Channel 2	19.16	White's XLT	Cultural Debris	Nail	1	Nail	0.01	16	14869564.22	1765422.5	4	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-014-43	14869567.04	1765422.085	Channel 2	19.13	White's XLT	Cultural Debris	Nail	5	Nail	0.01	4	14869567.28	1765421.849	3	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-014-44	14869544.63	1765444.859	Channel 2	18.79	White's XLT	Cultural Debris	Nail	1	Nail	0.01	12	14869544.63	1765443.859	6	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-014-45	14869564.17	1765420.748	Channel 2	18.52	White's XLT	Cultural Debris	Nail	1	Shared with target 43	0.01	16	14869563.23	1765419.805	4	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-014-46	14869535.02	1765428.896	Channel 2	15.67	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	12	14869535.02	1765429.896	2	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-47	14869530.61	1765461.399	Channel 2	13.79	White's XLT	Munitions Debris	Frag	1	Fragment	3	12	14869529.61	1765461.399	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-48	14869539.42	1765467.272	Channel 2	13.47	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	12	14869539.42	1765466.272	4	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-014-49	14869547.52	1765456.492	Channel 2	13.11	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 58		6	14869548.02	1765456.492	0	4/22/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-014-5	14869536.09	1765416.189	Channel 2	203.35	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	8	14869535.62	1765415.718	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-50	14869555.31	1765459.474	Channel 2	12.27	White's XLT	Cultural Debris	Nail	6	Nail	0.01	12	14869556.31	1765459.474	6	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-014-51-1	14869559.1	1765415.955	Channel 2	11.80	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	24	14869557.69	1765417.369	2	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-51-2	14869559.1	1765415.955	Channel 2	11.80	White's XLT	Munitions Debris	Projectile	1	3"	7	24	14869559.1	1765417.955	1	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-52	14869550.37	1765455.872	Channel 2	11.32	White's XLT	Cultural Debris	Nail	1	Nail	0.01	0	14869550.37	1765455.872	3	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-014-53	14869557.79	1765439.228	Channel 2	11.20	White's XLT	Cultural Debris	Bolt	1	Bolt	0.02	0	14869557.79	1765439.228	4	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-014-54	14869564.85	1765428.905	Channel 2	11.15	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	24	14869563.44	1765430.319	3	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26IR-014-55-1	14869561.63	1765429.453	Channel 2	9.76	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	18	14869561.63	1765430.953	4	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-55-2	14869561.63	1765429.453	Channel 2	9.76	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	18	14869561.63	1765427.953	4	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-56	14869559.12	1765440.807	Channel 2	9.06	White's XLT	Munitions Debris	Projectile	1	4" Projectile, Unfired	25	12	14869560.12	1765440.807	18	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-57	14869549.55	1765458.052	Channel 2	8.85	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	12	14869548.55	1765458.052	4	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-58	14869546.36	1765454.865	Channel 2	8.62	White's XLT	Cultural Debris	Metal Scrap	1	cable		6	14869545.86	1765454.865	0	4/22/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-014-59	14869541.71	1765462.375	Channel 2	7.68	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	12	14869541.71	1765463.375	2	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-6	14869546.88	1765448.497	Channel 2	188.82	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.5	14	14869545.71	1765448.497	6	4/22/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26IR-014-7	14869529.97	1765432.447	Channel 2	162.30	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	2	14869530.09	1765432.565	3	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-8-1	14869536.97	1765457.49	Channel 2	160.05	White's XLT	Munitions Debris	Frag	1	Fragment	10	4	14869536.64	1765457.49	18	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-8-2	14869536.97	1765457.49	Channel 2	160.05	White's XLT	Munitions Debris	Frag	1	Fragment	4	4	14869536.73	1765457.726	6	4/22/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-014-9	14869529.35	1765426.401	Channel 2	153.13	White's XLT	Cultural Debris	Nail	1	Nail	0.01	2	14869529.47	1765426.283	2	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-015-401	14868441	1764214.053	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	5/5/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-015-402	14868447.73	1764186.554	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	12	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-016-401	14868191.3	1764606.458	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	3	4/13/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-016-402	14868220	1764612.608	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Bolt	0.01	NA	-	-	6	4/13/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-016-403	14868237.89	1764619.97	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Broadhead	0.01	NA	-	-	2	4/13/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-016-404	14868193.5	1764615.573	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	5	NA	-	-	6	4/13/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-016-405	14868218.09	1764628.041	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Wood splitting wedge	3	NA	-	-	0	4/13/2012	Dan Hains	Transferred to PTA Archaeologist
1926 Explosion Radius	26IR-016-406	14868229.81	1764607.031	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/13/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-016-407	14868225.88	1764623.07	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	1	4/13/2012	Dan Hains	Left in place
1926 Explosion Radius	26IR-016-408	14868234.12	1764595.687	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Chain	4.5	NA	-	-	2	4/13/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26IR-017-401	14868078.21	1765013.543	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	metal sign remains	1	NA	-	-	0	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-402	14868067.41	1765038.457	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	metal bar	1	NA	-	-	2	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-403	14868067.41	1765038.457	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	3	Nail	0.01	NA	-	-	2	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-404	14868060.09	1765032.97	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-405	14868074.62	1765024.61	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Debris too large to clear.	0.01	NA	-	-	2	5/9/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-017-406	14868056.45	1765032.992	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit	0.1	NA	-	-	4	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-407	14868060.04	1765002.57	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-408	14868063.58	1765002.571	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-409	14868067.34	1765024.65	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	4	Metal Scrap	0.1	NA	-	-	3	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-410	14868092.13	1765030.416	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	3	metal spikes	0.1	NA	-	-	4	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-411	14868084.32	1765038.507	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-412	14868086.81	1765037.111	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	belt buckle	0.1	NA	-	-	2	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-413	14868076.3	1765018.552	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	1	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-414	14868079.29	1765005.37	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	1	Debris too large to clear.	1	NA	-	-	2	5/9/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-017-415	14868063.7	1765024.666	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-416	14868063.7	1765024.666	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-417	14868059.99	1765013.637	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-418	14868052.73	1765016.437	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-419	14868081.95	1765032.86	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-420	14868085.55	1765024.556	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-421	14868080.62	1765030.702	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.	1	NA	-	-	2	5/9/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-017-422	14868085.13	1765017.338	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	4	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-423	14868085.52	1765019.029	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		NA	-	-	3	5/9/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-017-424	14868081.69	1765020.331	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-425	14868084.21	1765014.987	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-426	14868050.05	1765034.956	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	2	Nail	0.1	NA	-	-	3	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-427	14868042.71	1765013.779	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Debris too large to clear.	0.1	NA	-	-	4	5/9/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-017-428	14868045.46	1765019.236	Mag & Dig	Analog	White's XLT	Cultural Debris	Spoon	1	Teaspoon	0.02	NA	-	-	3	5/9/2012	William Sturm	Transferred to PTA Archaeologist
1926 Explosion Radius	26IR-017-429	14868041.57	1765029.075	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-430	14868083.84	1765011.708	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	wire debris		NA	-	-	4	5/9/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-017-431	14868080.64	1765012.44	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-432	14868081.67	1765014.299	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	3	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-433	14868082.84	1765017.856	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.02	NA	-	-	8	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-434	14868079.56	1765007.794	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	large concentration of old live stock fencing		NA	-	-	0	5/9/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-017-435	14868077.11	1765010.132	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	metal strapping under rocks		NA	-	-	2	5/9/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-017-436	14868078.04	1765001.985	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	continuation of livestock fencing		NA	-	-	0	5/9/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-017-437	14868070.82	1764994.25	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire		NA	-	-	4	5/9/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-017-438	14868075.96	1764999.187	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire		NA	-	-	4	5/9/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-017-439	14868074.65	1764994.512	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire		NA	-	-	0	5/9/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-017-440	14868059.92	1764999.828	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire		NA	-	-	0	5/9/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-017-441	14868052.7	1765010.916	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	4	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-442	14868037.48	1765018.021	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.02	NA	-	-	3	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-443	14868046.04	1765010.851	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	wire pit		NA	-	-	0	5/9/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-017-444	14868049.07	1765013.694	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-445	14868067.25	1765008.076	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	4	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-446	14868074.45	1764991.467	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	3	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-447	14868067.28	1765013.602	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	wire fencing burried		NA	-	-	0	5/9/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-017-448	14868075.7	1765006.701	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	rake	1.5	NA	-	-	4	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-449	14868050.35	1765007.829	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	metal bracket	2	NA	-	-	0	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-450	14868082.1	1765008.773	Mag & Dig	Analog	White's XLT	Cultural Debris	Other Archaeological Item	1	Door knob	0.5	NA	-	-	2	5/10/2012	William Sturm	Transferred to PTA Archaeologist
1926 Explosion Radius	26IR-017-451	14868080.78	1765016.607	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-452	14868079.81	1765027.234	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-453	14868060.14	1765041.256	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	4	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-454	14868031.76	1765020.61	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-455	14868071.01	1765030.152	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Debris too large to clear.	0.02	NA	-	-	4	5/10/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-017-456	14868090.76	1765036.994	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-457	14868087.6	1765033.196	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	4	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-458	14868087.33	1765031.369	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-459	14868081.95	1765032.86	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	0	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-460	14868067.22	1765002.555	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Debris too large to clear.	0.02	NA	-	-	4	5/10/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-017-461	14868075.17	1765040.715	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-462	14868088.78	1765032.817	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	1	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-463	14868093.93	1765034.227	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Area littered with wire pieces.	0.01	NA	-	-	2	5/10/2012	William Sturm	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26IR-017-464	14868089.18	1765021.772	Mag & Dig	Analog	White's XLT	Cultural Debris	Other Archaeological Item	1	Door knob	0.1	NA	-	-	3	5/10/2012	William Sturm	Transferred to PTA Archaeologist
1926 Explosion Radius	26IR-017-465	14868089.2	1765027.299	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-466	14868081.99	1765041.143	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-467	14868084.13	1765031.258	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.02	NA	-	-	4	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-468	14868064.13	1764999.734	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	2	Nail	0.01	NA	-	-	3	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-469	14868063.65	1765016.38	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-470	14868060.02	1765019.164	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-471	14868060.02	1765019.164	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-472	14868088.42	1765025.983	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-473	14868059.98	1765010.875	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-474	14868059.98	1765010.875	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-475	14868049.12	1765021.979	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-476	14868063.64	1765013.618	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	3	Nail	0.02	NA	-	-	2	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-477	14868081.96	1765035.622	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	4	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-478	14868090.99	1765034.78	Mag & Dig	Analog	White's XLT	Cultural Debris	Bottle Top	1	Bottle Top	0.01	NA	-	-	2	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-479	14868071.03	1765035.679	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	1	NA	-	-	2	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-480	14868085.56	1765027.318	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-481	14868074.67	1765032.895	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	wire fencing tangled in large tree roots		NA	-	-	0	5/10/2012	William Sturm	Left in place
1926 Explosion Radius	26IR-017-482	14868084.77	1765034.448	Mag & Dig	Analog	White's XLT	Cultural Debris	Other Archaeological Item	1	Chest lock face plate	0.02	NA	-	-	1	5/10/2012	William Sturm	Transferred to PTA Archaeologist
1926 Explosion Radius	26IR-017-483	14868088.83	1765035.979	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.02	NA	-	-	3	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-017-484	14868077.64	1765039.732	Mag & Dig	Analog	White's XLT	Cultural Debris	Other Archaeological Item	1	Machine sprocket	0.5	NA	-	-	4	5/10/2012	William Sturm	Transferred to PTA Archaeologist
1926 Explosion Radius	26IR-017-485	14868074.72	1765043.943	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.02	NA	-	-	6	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-018-401	14868766.01	1764903.786	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	banding	0.02	NA	-	-	2	5/12/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-018-402	14868755.09	1764907.861	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	banding	0.01	NA	-	-	2	5/12/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-018-403	14868748.62	1764920.897	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	metal ring	2	NA	-	-	0	5/12/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-018-404	14868760.58	1764906.074	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	eye bolt	0.02	NA	-	-	3	5/12/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-018-405	14868755.11	1764919.121	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	5/12/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-018-406	14868733.26	1764910.738	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	2	5/12/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-018-407	14868744.1	1764894.111	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	2	5/12/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-018-408	14868740.49	1764899.651	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	1	NA	-	-	1	5/12/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-018-409	14868744.03	1764880.302	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	1	5/12/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-018-410	14868740.31	1764884.597	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	2	5/12/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-018-411	14868740.42	1764888.604	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	1	5/12/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-018-412	14868736.8	1764891.384	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1.5	NA	-	-	0	5/12/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-018-413	14868756.03	1764886.123	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	1	NA	-	-	3	5/12/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26IR-018-414	14868769.57	1764891.436	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	2	5/12/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-018-415	14868751.53	1764921.692	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	banding	0.02	NA	-	-	2	5/12/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-018-416	14868752.79	1764913.632	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	1	5/12/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26IR-018-417	14868758.75	1764910.604	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	0	5/12/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-001-401	14876174.24	1762585.127	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Frag	0.01	NA	-	-	1	4/6/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-001-402	14876191.28	1762570.408	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Frag	0.01	NA	-	-	8	4/6/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-001-403	14876178.25	1762591.861	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Frag	0.5	NA	-	-	6	4/6/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-001-404	14876216.51	1762591.261	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	3	Frag	0.1	NA	-	-	12	4/6/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-001-405	14876166.45	1762577.511	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	6	4/6/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-001-406	14876170.59	1762585.695	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Frag	0	NA	-	-	2	4/6/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-001-407	14876216.16	1762592.919	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Frag	0.01	NA	-	-	8	4/6/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-001-408	14876173.16	1762562.437	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Frag	0.5	NA	-	-	4	4/6/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-001-409	14876177.87	1762556.825	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Frag	0.1	NA	-	-	12	4/6/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-001-410	14876214.38	1762601.214	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Frag	0.1	NA	-	-	4	4/6/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-001-411	14876196.87	1762595.778	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Frag	0.02	NA	-	-	4	4/6/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-002-401	14875770.07	1762174.389	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Frag	0.1	NA	-	-	4	4/6/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-002-402	14875774.85	1762182.648	Mag & Dig	Analog	White's XLT	Munitions Debris	Projectile	1	M385 40mm, Practice	0.02	NA	-	-	6	4/6/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-002-403	14875764.67	1762187.396	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	4	4/6/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-002-404	14875780.74	1762196.979	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	5	NA	-	-	4	4/6/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-002-405	14875785.42	1762185.083	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	5.5	NA	-	-	4	4/6/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-002-406	14875771.23	1762187.637	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Frag	1	NA	-	-	4	4/6/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-002-407	14875777.34	1762175.543	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1.5	NA	-	-	9	4/6/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-002-408	14875803.65	1762189.408	Mag & Dig	Analog	White's XLT	Munitions Debris	Fuze	1	Fuze	0.1	NA	-	-	3	4/6/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-002-409	14875809.81	1762184.131	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Frag	0.1	NA	-	-	8	4/6/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-002-410	14875766.16	1762194.841	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Frag	0.1	NA	-	-	8	4/6/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-003-401	14875255.15	1761900.103	Mag & Dig	Analog	White's XLT	Munitions Debris	Projectile	1	O268 proj, 40mm, prac, M407A1	0.01	NA	-	-	1	4/6/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-003-402	14875234.01	1761896.838	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Frag	0.01	NA	-	-	3	4/6/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-003-403	14875267.56	1761905.507	Mag & Dig	Analog	White's XLT	DMM	Projectile	1	6" Naval Proj, poss Mk20 or Mk 24 HC	60	NA	-	-	0	4/6/2012	Dan Hains	Demolition/Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-003-404	14875243.17	1761908.665	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	6	4/6/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-003-405	14875223.85	1761904.896	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Frag	0.02	NA	-	-	6	4/6/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-003-406	14875211.83	1761905.233	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Frag	0.02	NA	-	-	6	4/6/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-003-407	14875194.7	1761903.386	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Frag	0.01	NA	-	-	4	4/6/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-004-401	14874982.67	1761557.424	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	md frag	0.02	NA	-	-	4	4/5/2012	Jason Brawner	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-004-402	14874961.21	1761533.463	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	6	4/5/2012	Jason Brawner	Transferred to PTA
1926 Explosion Radius	26OR-004-403	14874980.53	1761538.06	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Frag	0.5	NA	-	-	6	4/5/2012	Jason Brawner	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-004-404	14874956.81	1761527.684	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	clevis	0.5	NA	-	-	6	4/5/2012	Jason Brawner	Transferred to PTA
1926 Explosion Radius	26OR-004-405	14874966.98	1761523.767	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Frag	0.01	NA	-	-	4	4/5/2012	Jason Brawner	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-004-406	14874953.55	1761531.016	Mag & Dig	Analog	White's XLT	Cultural Debris	Spoon	1	spoon	0.02	NA	-	-	3	4/5/2012	Jason Brawner	Transferred to PTA Archaeologist
1926 Explosion Radius	26OR-004-407	14874963.78	1761538.696	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Frag	0.01	NA	-	-	3	4/5/2012	Jason Brawner	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-005-401	14874480.45	1760932.233	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1		0.01	NA	-	-	2	4/5/2012	Jason Brawner	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-005-402	14874494.81	1760921.254	Mag & Dig	Analog	White's XLT	Cultural Debris	Vehicle Part	1		0.1	NA	-	-	0	4/5/2012	Jason Brawner	Transferred to PTA
1926 Explosion Radius	26OR-005-403	14874482.45	1760899.972	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	5		0.02	NA	-	-	3	4/5/2012	Jason Brawner	Transferred to PTA Archaeologist
1926 Explosion Radius	26OR-005-404	14874484.62	1760911.539	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Mess kit	1	NA	-	-	0	4/5/2012	Jason Brawner	Transferred to PTA Archaeologist
1926 Explosion Radius	26OR-005-405	14874448.63	1760894.339	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Drill bit	0.5	NA	-	-	1	4/5/2012	Jason Brawner	Transferred to PTA Archaeologist
1926 Explosion Radius	26OR-006-401	14873849.27	1760219.14	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0	NA	-	-	2	4/5/2012	Jason Brawner	Transferred to PTA
1926 Explosion Radius	26OR-006-402	14873848.88	1760214.726	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	nut	0.02	NA	-	-	6	4/5/2012	Jason Brawner	Transferred to PTA
1926 Explosion Radius	26OR-006-403	14873847.87	1760230.471	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	metal plate and nail wire	0.01	NA	-	-	4	4/5/2012	Jason Brawner	Transferred to PTA
1926 Explosion Radius	26OR-006-404	14873857.29	1760220.207	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	trask head gasget, food can debris	0.1	NA	-	-	3	4/5/2012	Jason Brawner	Transferred to PTA
1926 Explosion Radius	26OR-006-405	14873845.34	1760236.555	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.02	NA	-	-	6	4/5/2012	Jason Brawner	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26OR-006-406	14873856.18	1760215.922	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	car parts, tuna cqn	2	NA	-	-	4	4/5/2012	Jason Brawner	Transferred to PTA
1926 Explosion Radius	26OR-006-407	14873844.66	1760244.567	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	appears to be road debris		NA	-	-	9	4/5/2012	Jason Brawner	Left in place
1926 Explosion Radius	26OR-006-408	14873842.87	1760251.755	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	rusted can pcs	0.01	NA	-	-	6	4/5/2012	Jason Brawner	Transferred to PTA
1926 Explosion Radius	26OR-006-409	14873865	1760233.973	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	4	4/5/2012	Jason Brawner	Transferred to PTA
1926 Explosion Radius	26OR-006-410	14873846.44	1760236.274	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	llock	0.1	NA	-	-	6	4/5/2012	Jason Brawner	Transferred to PTA
1926 Explosion Radius	26OR-006-411	14873826.31	1760217.6	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	4	4/5/2012	Jason Brawner	Transferred to PTA
1926 Explosion Radius	26OR-006-412	14873827.12	1760233.059	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	6	4/5/2012	Jason Brawner	Transferred to PTA
1926 Explosion Radius	26OR-007-401	14873380.71	1759852.491	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Frag	0.01	NA	-	-	2	4/5/2012	Jason Brawner	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-007-402	14873356.58	1759870.617	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Frag	0.02	NA	-	-	3	4/5/2012	Jason Brawner	Transferred to PTA
1926 Explosion Radius	26OR-007-403	14873378.52	1759872.094	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Drill bit	0.02	NA	-	-	3	4/5/2012	Jason Brawner	Transferred to PTA Archaeologist
1926 Explosion Radius	26OR-011-1	14870645.5	1759097.736	Channel 2	3287.04	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	25	2	14870645.62	1759097.854	2	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-10	14870645.13	1759037.735	Channel 2	268.96	White's XLT	Cultural Debris	Concrete	1	Concrete		12	14870644.42	1759038.442	4	4/14/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-011-11-1	14870630.86	1759091.595	Channel 2	259.58	White's XLT	Cultural Debris	Metal Scrap	1	Wire, Washer	0.01	24	14870630.86	1759093.595	4	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-11-2	14870630.86	1759091.595	Channel 2	259.58	White's XLT	Cultural Debris	Metal Scrap	1	Metal Plate	4.5	24	14870630.86	1759093.595	1	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-12	14870641.44	1759072.56	Channel 2	253.67	White's XLT	Cultural Debris	Metal Scrap	1	Cans and Foil	0.02	4	14870641.2	1759072.324	0	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-13	14870641.32	1759052.559	Channel 2	227.80	White's XLT	Cultural Debris	Pipe	1	Pipe	0.5	0	14870641.32	1759052.559	2	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-14-1	14870649.02	1759036.661	Channel 2	227.05	White's XLT	Cultural Debris	Metal Scrap	1	Nail Pit	10	6	14870649.02	1759037.161	6	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-14-2	14870649.02	1759036.661	Channel 2	227.05	White's XLT	Cultural Debris	Metal Scrap	10	Metal Scrap	10	6	14870649.02	1759037.161	6	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-14-3	14870649.02	1759036.661	Channel 2	227.05	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	10	6	14870649.02	1759037.161	6	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-15-1	14870646.71	1759043.126	Channel 2	226.15	White's XLT	Cultural Debris	Zipper Tag	1	Zipper Tag	5	18	14870648.21	1759043.126	8	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-15-2	14870646.71	1759043.126	Channel 2	226.15	White's XLT	Small Arms	small arms, 50 cal	1	Small Arms, 50 Cal	0.01	8	14870647.38	1759043.126	4	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-15-3	14870646.71	1759043.126	Channel 2	226.15	White's XLT	Cultural Debris	Nail	1	Nail	0.1	6	14870647.21	1759043.126	4	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-15-4	14870646.71	1759043.126	Channel 2	226.15	White's XLT	Cultural Debris	Bolt	1	Bolt	1	6	14870646.71	1759042.626	4	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-16	14870648.13	1759037.967	Channel 2	213.59	White's XLT	Cultural Debris	Metal Scrap	1	Nail Pit	0.01	6	14870647.78	1759037.613	4	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-17	14870654.77	1759053.513	Channel 2	210.98	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	6	4	14870655.01	1759053.277	2	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-18	14870675.46	1759070.448	Channel 2	179.52	White's XLT	Cultural Debris	Metal Scrap	1	Car Parts	5	7	14870675.87	1759070.036	8	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-19	14870659.33	1759069.653	Channel 2	176.65	White's XLT	Cultural Debris	Pipe	1	Pipe	0.5	3	14870659.58	1759069.653	3	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-2	14870659.88	1759053.849	Channel 2	3094.26	White's XLT	Cultural Debris	Metal Scrap	1	Hinge Sheet Metal	0.5	4	14870660.12	1759054.085	6	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-20	14870638.07	1759044.978	Channel 2	169.08	White's XLT	Cultural Debris	Metal Scrap	1	Nails and Valve Stem	0.01	24	14870640.07	1759044.978	2	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-21	14870639.23	1759072.885	Channel 2	157.69	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	8	14870639.7	1759073.356	3	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-22	14870619.69	1759063.34	Channel 2	156.26	White's XLT	Cultural Debris	Pipe	1	Pipe	0.5	6	14870620.19	1759063.34	6	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-23-1	14870621.5	1759056.629	Channel 2	153.67	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	17	14870620.08	1759056.629	12	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-23-2	14870621.5	1759056.629	Channel 2	153.67	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	17	14870620.08	1759056.629	12	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-23-3	14870621.5	1759056.629	Channel 2	153.67	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	17	14870620.08	1759056.629	12	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-24-1	14870619.85	1759056.939	Channel 2	152.46	White's XLT	Munitions Debris	Casing	1	Link for 50 Cal	0.01	4	14870619.85	1759057.272	2	4/14/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-011-24-2	14870619.85	1759056.939	Channel 2	152.46	White's XLT	Cultural Debris	Metal Scrap	1	Metal Hinge	0.1	6	14870619.5	1759056.585	4	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-24-3	14870619.85	1759056.939	Channel 2	152.46	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	4	14870619.85	1759056.606	4	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-25	14870636.33	1759095.591	Channel 2	152.12	White's XLT	Cultural Debris	Rebar	1	Rebar		2	14870636.45	1759095.473	12	4/14/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-011-26	14870635.81	1759091.594	Channel 2	147.02	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 25	0	0	14870635.81	1759091.594	0	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-27	14870638.5	1759065.377	Channel 2	140.44	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	10	8	14870638.03	1759064.906	0	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-28-1	14870637.39	1759047.382	Channel 2	138.96	White's XLT	Cultural Debris	Pipe	1	Pipe	0.5	0	14870637.39	1759047.382	3	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-28-2	14870637.39	1759047.382	Channel 2	138.96	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	6	14870637.39	1759047.882	3	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-29-1	14870626.02	1759052.251	Channel 2	135.30	White's XLT	Cultural Debris	Metal Scrap	1	Food Can	0.01	8	14870626.69	1759052.251	2	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-29-2	14870626.02	1759052.251	Channel 2	135.30	White's XLT	Cultural Debris	Metal Scrap	1	Bolts and Wire	0.01	8	14870626.69	1759052.251	2	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-3	14870652.14	1759037.145	Channel 2	2230.99	White's XLT	Cultural Debris	Metal Scrap	4	Metal Scrap	60	0	14870652.14	1759037.145	4	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-30-1	14870647.23	1759034.618	Channel 2	133.63	White's XLT	Cultural Debris	Pipe	1	Pipe and 3 Nails	0.5	6	14870647.23	1759034.118	3	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-30-2	14870647.23	1759034.618	Channel 2	133.63	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	12	14870646.52	1759033.911	3	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-31	14870638.67	1759052.375	Channel 2	118.89	White's XLT	Cultural Debris	Pipe	1	Pipe	1	12	14870637.96	1759053.082	3	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-32	14870665.06	1759054.144	Channel 2	116.15	White's XLT	Cultural Debris	Metal Scrap	1	Nails and Hinge	1	4	14870665.06	1759054.477	3	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-33	14870645.65	1759048.333	Channel 2	111.95	White's XLT	Cultural Debris	Metal Scrap	1	Door Hinge and Nails	2	0	14870645.65	1759048.333	2	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-34-1	14870651.06	1759042.65	Channel 2	110.18	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	2	14870651.18	1759042.768	1	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-34-2	14870651.06	1759042.65	Channel 2	110.18	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	6	14870651.41	1759043.004	1	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-34-3	14870651.06	1759042.65	Channel 2	110.18	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	0.02	8	14870651.53	1759043.121	1	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-35	14870656.08	1759075.411	Channel 2	98.44	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	1	4	14870655.84	1759075.647	6	4/14/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-011-36	14870617.42	1759060.354	Channel 2	92.77	White's XLT	Cultural Debris	Pipe	1	Pipe	1	4	14870617.18	1759060.118	0	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-37	14870640.97	1759102.113	Channel 2	91.21	White's XLT	Cultural Debris	Metal Scrap	2	Metal Plate and Banding	0.01	8	14870641.44	1759102.584	3	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-38-1	14870636.51	1759043.337	Channel 2	88.74	White's XLT	Munitions Debris	Casing	1	50 Cal Cart	0.01	12	14870637.22	1759042.63	2	4/14/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-011-38-2	14870636.51	1759043.337	Channel 2	88.74	White's XLT	Cultural Debris	Wire	1	Wire	0.01	8	14870636.98	1759042.866	3	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-38-3	14870636.51	1759043.337	Channel 2	88.74	White's XLT	Cultural Debris	Pipe	1	Pipe	1	0	14870636.51	1759043.337	2	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-38-4	14870636.51	1759043.337	Channel 2	88.74	White's XLT	Cultural Debris	Metal Scrap	1	Nail Pit and 7 Metal Bandings	0.02	3	14870636.76	1759043.337	2	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-39	14870623.59	1759082.079	Channel 2	88.62	White's XLT	Cultural Debris	Metal Scrap	1	Metal Plate, Banding, Various Pieces of Small Metal Debris	0.5	2	14870623.59	1759081.912	4	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-4	14870664.7	1759073.422	Channel 2	1232.61	White's XLT	Munitions Debris	Other MD	1	Crushed Ammo Can	3	3	14870664.88	1759073.599	8	4/14/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-011-40-1	14870623.37	1759062.216	Channel 2	84.27	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	6	14870622.87	1759062.216	1	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-40-2	14870623.37	1759062.216	Channel 2	84.27	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	4	14870623.13	1759062.452	1	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-41	14870662.06	1759066.637	Channel 2	80.75	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	12	14870662.06	1759067.637	2	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-42	14870642.24	1759070.071	Channel 2	80.55	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	12	14870642.95	1759070.778	0	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-43	14870637.91	1759094.365	Channel 2	76.91	White's XLT	Cultural Debris	Metal Scrap	1	Rebar	0.02	6	14870638.26	1759094.719	8	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-44	14870647.84	1759047.92	Channel 2	73.15	White's XLT	Cultural Debris	Metal Scrap	1	Metal Banding, Nails, and Scrap	0.02	6	14870647.34	1759047.92	4	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-45	14870671.05	1759062.007	Channel 2	70.07	White's XLT	Cultural Debris	Metal Scrap	1	Rebar in Concrete		5	14870670.63	1759062.007	9	4/14/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-011-46	14870633.13	1759087.794	Channel 2	68.11	White's XLT	Cultural Debris	Metal Scrap	1	Food Can	0.01	0	14870633.13	1759087.794	0	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-47	14870638.41	1759092.128	Channel 2	66.09	White's XLT	Cultural Debris	Metal Scrap	1	Banding and Lawn Mower Blade	1	3	14870638.41	1759091.878	4	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-48-1	14870623.8	1759065.866	Channel 2	58.67	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	3	14870624.05	1759065.866	1	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-48-2	14870623.8	1759065.866	Channel 2	58.67	White's XLT	Cultural Debris	Pipe	1	Pipe	0.1	1	14870623.72	1759065.866	0	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-49	14870653.8	1759075.606	Channel 2	58.32	White's XLT	Cultural Debris	Nail	3	Nail	0.01	3	14870653.98	1759075.429	4	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-5	14870662.2	1759073.436	Channel 2	1044.67	White's XLT	Munitions Debris	Other MD	1	Same as Flag 4	3	6	14870662.55	1759073.79	8	4/14/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-011-50	14870649.71	1759033.901	Channel 2	53.20	White's XLT	Cultural Debris	Nail	5	Nail	0.1	18	14870650.77	1759034.962	6	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-51	14870647.44	1759063.924	Channel 2	46.34	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	5	14870647.73	1759064.219	6	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-52	14870652.32	1759053.628	Channel 2	44.67	White's XLT	Cultural Debris	Nail	3	Nail	0.02	3	14870652.14	1759053.451	6	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-53-1	14870669.41	1759066.407	Channel 2	44.60	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	1	14870669.35	1759066.348	4	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-53-2	14870669.41	1759066.407	Channel 2	44.60	White's XLT	Munitions Debris	Primer	1	Primer, Functioned	0.02	3	14870669.59	1759066.23	4	4/14/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-011-53-3	14870669.41	1759066.407	Channel 2	44.60	White's XLT	Munitions Debris	Primer	2	Primer, Functioned	0.02	3	14870669.59	1759066.23	4	4/14/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-011-54	14870624.17	1759076.264	Channel 2	43.87	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	6	14870623.82	1759076.618	2	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-55	14870648.75	1759066.066	Channel 2	43.56	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 57	0	12	14870648.04	1759066.773	0	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-56	14870638.28	1759061.778	Channel 2	39.15	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	10	7	14870638.86	1759061.778	0	4/14/2012	Dan Hains	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26OR-011-57	14870647.56	1759066.973	Channel 2	36.66	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target55	1	7	14870647.15	1759066.561	0	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-58	14870635.18	1759054.396	Channel 2	32.87	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	2	14870635.18	1759054.229	1	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-59	14870625.71	1759058.454	Channel 2	32.74	White's XLT	Cultural Debris	Aluminum	1	Aluminum	0.1	12	14870626.71	1759058.454	4	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-6	14870667.52	1759060.604	Channel 2	694.26	White's XLT	DMM	Projectile	1	Fuzed 105 mm HEAT, wax filled	20	3	14870667.7	1759060.781	2	4/14/2012	Dan Hains	Demolition/Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-011-60	14870649.16	1759082.714	Channel 2	32.01	White's XLT	Cultural Debris	Metal Scrap	1	Water Nozel	0.02	3	14870648.98	1759082.537	4	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-61	14870632.07	1759060.215	Channel 2	30.51	White's XLT	Cultural Debris	Pipe	1	Pipe	0.1	0	14870632.07	1759060.215	3	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-62	14870631.91	1759049.888	Channel 2	29.99	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	18	14870630.85	1759050.949	3	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-63	14870617.11	1759066.556	Channel 2	28.70	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	0.02	8	14870617.11	1759067.223	6	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-64	14870635.56	1759058.194	Channel 2	26.51	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	3	14870635.56	1759057.944	8	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-65-1	14870613.77	1759059.676	Channel 2	25.79	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	2	14870613.94	1759059.676	4	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-65-2	14870613.77	1759059.676	Channel 2	25.79	White's XLT	Small Arms	small arms, 50 cal	1	small arms, 50 cal	0.01	6	14870614.12	1759060.03	2	5/12/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-011-66-1	14870634.72	1759060.4	Channel 2	21.22	White's XLT	Cultural Debris	Metal Scrap	1	Pipe Pieces	0.01	3	14870634.97	1759060.4	2	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-66-2	14870634.72	1759060.4	Channel 2	21.22	White's XLT	Cultural Debris	Metal Scrap	1	Pipe Pieces	0.01	3	14870634.97	1759060.4	2	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-67	14870647.82	1759061.121	Channel 2	20.52	White's XLT	Cultural Debris	Metal Scrap	15	Metal Scrap	0.02	12	14870647.82	1759062.121	12	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-68-1	14870629.63	1759053.816	Channel 2	19.90	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target29	0.01	24	14870629.63	1759051.816	6	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-68-2	14870629.63	1759053.816	Channel 2	19.90	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target29	0.01	24	14870629.63	1759051.816	6	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-69	14870653.69	1759088.687	Channel 2	18.64	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	8	14870654.16	1759088.216	2	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-7	14870666.88	1759062.658	Channel 2	518.71	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2.5	24	14870668.88	1759062.658	4	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-70	14870632.24	1759053.958	Channel 2	18.10	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap and Insulation Foil	0.02	4	14870631.91	1759053.958	3	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-71	14870641.19	1759088.762	Channel 2	13.98	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	4	14870641.43	1759088.526	4	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-72	14870628.71	1759075.636	Channel 2	13.91	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 74		6	14870628.71	1759075.136	3	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-73-1	14870650.25	1759057.706	Channel 2	12.31	White's XLT	Cultural Debris	Nail	10	Nail	0.02	6	14870650.6	1759058.06	6	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-73-2	14870650.25	1759057.706	Channel 2	12.31	White's XLT	Cultural Debris	Nail	1	Nail Pit	0.02	6	14870650.6	1759058.06	6	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-73-3	14870650.25	1759057.706	Channel 2	12.31	White's XLT	Cultural Debris	Nail	10	Nail	0.02	6	14870650.6	1759058.06	6	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-74	14870630.41	1759074.976	Channel 2	11.54	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target74	0.1	6	14870630.06	1759074.622	6	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-75	14870633.48	1759078.608	Channel 2	11.46	White's XLT	Cultural Debris	Metal Scrap	1	Drink Cans	0.02	2	14870633.36	1759078.726	3	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-76	14870614.72	1759070.405	Channel 2	9.66	White's XLT	Cultural Debris	Metal Scrap	1	Small Metal Debris and Wire	0	1	14870614.66	1759070.346	2	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-77-1	14870634.81	1759050.598	Channel 2	9.47	White's XLT	Cultural Debris	Metal Scrap	1	Pipe Fittings	1	12	14870635.52	1759051.305	3	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-77-2	14870634.81	1759050.598	Channel 2	9.47	White's XLT	Cultural Debris	Nail	1	Nail	0.01	12	14870635.81	1759050.598	4	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-78-1	14870664.69	1759080.022	Channel 2	7.74	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	8	14870665.16	1759080.493	2	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-78-2	14870664.69	1759080.022	Channel 2	7.74	White's XLT	Cultural Debris	Metal Scrap	1	Bolt and Nails	0.02	8	14870665.16	1759080.493	2	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-79	14870609.64	1759063.729	Channel 2	7.52	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14870609.64	1759063.729	0	4/14/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-011-8	14870658.61	1759074.908	Channel 2	353.12	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	6	14870658.96	1759074.554	2	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-80	14870650.23	1759074.204	Channel 2	7.46	White's XLT	Cultural Debris	Metal Scrap	1	Banding and Nails	0.02	2	14870650.23	1759074.037	4	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-81	14870627.37	1759073.868	Channel 2	7.44	White's XLT	Cultural Debris	Metal Scrap	1	Beer Can	0.01	8	14870627.37	1759074.535	4	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-82	14870629.11	1759056.321	Channel 2	7.40	White's XLT	Cultural Debris	Metal Scrap	1	Food Can	0.01	8	14870629.78	1759056.321	2	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-9-1	14870656.33	1759045.869	Channel 2	305.27	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	3	14870656.51	1759046.046	2	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-011-9-2	14870656.33	1759045.869	Channel 2	305.27	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	3	14870656.51	1759046.046	2	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-012-401	14870902.42	1759138.568	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1			NA	-	-	0	4/5/2012	Jason Brawner	Left in place
1926 Explosion Radius	26OR-012-402	14870905.03	1759121.919	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1		0.02	NA	-	-	2	4/5/2012	Jason Brawner	Transferred to PTA
1926 Explosion Radius	26OR-012-403	14870922.26	1759144.48	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1			NA	-	-	1	4/5/2012	Jason Brawner	Left in place
1926 Explosion Radius	26OR-012-404	14870924.74	1759131.211	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	5		0.01	NA	-	-	6	4/5/2012	Jason Brawner	Transferred to PTA
1926 Explosion Radius	26OR-013-1	14871141.21	1760248.233	Channel 2	2032.70	White's XLT	Cultural Debris	Metal Scrap	1	3'x3' Armor Plate		15	14871142.46	1760248.233	1	4/14/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-013-10	14871134.19	1760214.009	Channel 2	83.33	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	6	8	14871134.19	1760214.676	12	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-11	14871129.57	1760205.63	Channel 2	50.98	White's XLT	Cultural Debris	Metal Scrap	1	tie down stake	1	2	14871129.69	1760205.748	6	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-12	14871089.88	1760232.22	Channel 2	41.85	White's XLT	Cultural Debris	Foil	1	MRE Foil	0.01	16	14871090.82	1760233.163	2	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-13-1	14871133.4	1760210.332	Channel 2	39.68	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	18	14871131.9	1760210.332	6	4/15/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-013-13-2	14871133.4	1760210.332	Channel 2	39.68	White's XLT	Cultural Debris	Bolt	1	bolt 12 in by 1/2 in	2	18	14871133.4	1760211.832	12	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-13-3	14871133.4	1760210.332	Channel 2	39.68	White's XLT	Cultural Debris	Metal Scrap	1	slag	0.01	4	14871133.4	1760210.665	4	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-14	14871117.16	1760261.445	Channel 2	38.65	White's XLT	Cultural Debris	Other	1	circuit board	2	5	14871117.16	1760261.862	4	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-15	14871106.41	1760232.276	Channel 2	24.41	White's XLT	Cultural Debris	Wire	1	Wire	0.01	12	14871107.12	1760231.569	0	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-16	14871120.35	1760203.629	Channel 2	23.38	White's XLT	Cultural Debris	Metal Scrap	1	rail road spike shared with taarget 20	0.5	6	14871120.7	1760203.983	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-17	14871110.28	1760231.165	Channel 2	22.81	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	12	14871109.28	1760231.165	1	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-18	14871145.42	1760222.402	Channel 2	15.41	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1.5	0	14871145.42	1760222.402	3	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-19	14871125.53	1760207.274	Channel 2	12.33	White's XLT	Cultural Debris	Metal Scrap	1	rail road spike shared with taarget 20	1	2	14871125.65	1760207.392	6	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-20	14871122.52	1760207.137	Channel 2	11.97	White's XLT	Cultural Debris	Metal Scrap	1	rail road spike shared with taarget 20	0.5	7	14871122.11	1760206.725	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-21	14871124.37	1760197.098	Channel 2	11.61	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14871124.37	1760197.098	0	4/14/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-013-2-1	14871156.97	1760231.966	Channel 2	992.87	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	12	14871157.97	1760231.966	3	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-2-2	14871156.97	1760231.966	Channel 2	992.87	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	20	2	14871157.14	1760231.966	3	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-22-1	14871108.99	1760226.762	Channel 2	11.36	White's XLT	Cultural Debris	Nail	2	Nail	0	0	14871108.99	1760226.762	6	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-22-2	14871108.99	1760226.762	Channel 2	11.36	White's XLT	Cultural Debris	Metal Scrap	1	MRE Foil	0	4	14871109.32	1760226.762	1	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-2-3	14871156.97	1760231.966	Channel 2	992.87	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	20	2	14871157.14	1760231.966	3	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-23-1	14871114.81	1760212.188	Channel 2	9.48	White's XLT	Geology	Hot rock	1	Hot rock		8	14871114.34	1760211.717	8	4/15/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-013-23-2	14871114.81	1760212.188	Channel 2	9.48	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	15	14871113.93	1760211.304	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-24	14871105.29	1760228.048	Channel 2	8.79	White's XLT	Cultural Debris	Metal Scrap	1	COPPER scrap shared with target 27	0.01	8	14871105.76	1760228.519	6	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-25	14871149.67	1760223.834	Channel 2	8.28	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	5	14871149.38	1760224.129	6	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-26	14871124.01	1760199.515	Channel 2	8.18	White's XLT	Cultural Debris	Wire	1	Wire	0.01	2	14871124.13	1760199.633	0	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-27	14871106.9	1760228.911	Channel 2	7.76	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	16	14871106.9	1760227.578	4	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-28	14871129.2	1760217.48	Channel 2	7.07	White's XLT	Cultural Debris	Metal Scrap	1	chain link fence wire	0.5	4	14871129.2	1760217.813	4	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-29-1	14871149.96	1760227.487	Channel 2	6.97	White's XLT	Cultural Debris	Metal Scrap	1	bracket	0.5	3	14871149.71	1760227.487	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-29-2	14871149.96	1760227.487	Channel 2	6.97	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	24	14871149.96	1760225.487	12	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-29-3	14871149.96	1760227.487	Channel 2	6.97	White's XLT	Cultural Debris	Metal Scrap	1	Bracket	0.5	3	14871149.71	1760227.487	3	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-30-1	14871091.67	1760235.93	Channel 2	5.97	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	9	14871092.2	1760236.46	1	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-30-2	14871091.67	1760235.93	Channel 2	5.97	White's XLT	Cultural Debris	Foil	1	MRE Foil	0	3	14871091.42	1760235.93	2	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-30-3	14871091.67	1760235.93	Channel 2	5.97	White's XLT	Cultural Debris	Metal Scrap	1	Wire Fencing	0.01	8	14871091.2	1760236.401	1	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-31	14871127.33	1760202.211	Channel 2	4.29	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	2	14871127.33	1760202.044	1	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-3-1	14871136.87	1760209.6	Channel 2	632.83	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	8	14871136.87	1760208.933	6	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-3-2	14871136.87	1760209.6	Channel 2	632.83	White's XLT	Munitions Debris	Projectile	1	Broken Projectile, No fuzing	15	6	14871137.22	1760209.246	3	4/15/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-013-4	14871159.97	1760231.75	Channel 2	212.34	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14871159.97	1760231.75	0	4/14/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-013-5	14871154.57	1760234.55	Channel 2	189.92	White's XLT	Cultural Debris	Metal Scrap	1	Rail Road Spike	1	5	14871154.15	1760234.55	8	4/14/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-6	14871137.06	1760223.741	Channel 2	185.33	White's XLT	Cultural Debris	Metal Scrap	1	slag	0.1	6	14871137.41	1760223.387	4	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-7	14871139	1760223.893	Channel 2	150.41	White's XLT	Cultural Debris	Metal Scrap	1	angle iron	5	7	14871139	1760224.476	8	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-013-8-1	14871117.86	1760229.121	Channel 2	121.01	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	1	0	14871117.86	1760229.121	6	4/15/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-013-8-2	14871117.86	1760229.121	Channel 2	121.01	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	18	14871117.86	1760230.621	3	4/15/2012	Dan Hains	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26OR-013-9	14871141.37	1760213.632	Channel 2	118.33	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14871141.37	1760213.632	1	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-401	14871551.01	1759486.911	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	6	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-402	14871552.36	1759465.754	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	0.5	NA	-	-	8	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-403	14871560.73	1759462.545	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	hot rock		NA	-	-	24	4/11/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-014-404	14871555.52	1759451.055	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	0.5	NA	-	-	6	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-405	14871537.03	1759436.67	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	multiple metal scrap	1.5	NA	-	-	6	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-406	14871538.29	1759470.631	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	slag iron scrap	2.5	NA	-	-	8	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-407	14871541.19	1759468.404	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	wheel	10	NA	-	-	8	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-408	14871530.57	1759457.413	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	1.5	NA	-	-	4	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-409	14871529.85	1759459.35	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	slag	12.5	NA	-	-	8	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-410	14871570.89	1759434.843	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	metal trash	1.5	NA	-	-	21	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-411	14871566.62	1759435.389	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire		NA	-	-	4	4/11/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-014-412	14871568.28	1759442.762	Mag & Dig	Analog	White's XLT	Cultural Debris	Brass	1	copper plate	4	NA	-	-	4	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-413	14871572.89	1759438.299	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	1	NA	-	-	3	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-414	14871556.67	1759427.634	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Aluminum	0.1	NA	-	-	4	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-415	14871568.52	1759448.215	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0	NA	-	-	3	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-416	14871565.67	1759450.729	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	0.5	NA	-	-	4	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-417	14871563.23	1759455.634	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Aluminum	0.02	NA	-	-	4	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-418	14871571.01	1759441.592	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0	NA	-	-	1	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-419	14871564.66	1759426.868	Mag & Dig	Analog	White's XLT	Cultural Debris	Concrete	1	Concrete		NA	-	-	3	4/11/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-014-420	14871547.36	1759463.956	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	clamp fence	0.01	NA	-	-	4	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-421	14871527.34	1759466.266	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	1	NA	-	-	3	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-422	14871564.42	1759453.377	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	0.5	NA	-	-	6	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-423	14871571.02	1759431.531	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	asphalt ringing hot		NA	-	-	15	4/11/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-014-424	14871557.87	1759452.857	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	trash pile, rebar, food cans, foil, etc	5.5	NA	-	-	8	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-425	14871551.48	1759423.172	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	30	NA	-	-	12	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-426	14871565.4	1759459.752	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	slag	2	NA	-	-	6	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-427	14871573.96	1759431.649	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	2 in pipe 6 feet long	30	NA	-	-	6	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-428	14871537	1759430.592	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	0.02	NA	-	-	6	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-429	14871573.95	1759435.861	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	0.01	NA	-	-	4	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-430	14871566.37	1759432.676	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	0.02	NA	-	-	6	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-431	14871565.12	1759447.575	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	0.02	NA	-	-	6	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-432	14871550.54	1759444.609	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	0.1	NA	-	-	4	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-433	14871541.43	1759442.447	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	slag pile	0.02	NA	-	-	15	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-434	14871563.36	1759439.782	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	5	NA	-	-	8	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-435	14871552.37	1759446.533	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.02	NA	-	-	3	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-436	14871569.46	1759439.824	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	NA	-	-	8	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-437	14871539.98	1759445.489	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	railroad spike	0.5	NA	-	-	4	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-014-438	14871539.98	1759445.489	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	railroad spike	0.5	NA	-	-	6	4/11/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-015-401	14871571.82	1759549.995	Mag & Dig	Analog	White's XLT	Munitions Debris	Fuze	1	M48 Series	0.1	NA	-	-	6	4/12/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-015-402	14871571.88	1759560.492	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	0.5	NA	-	-	4	4/12/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-015-403	14871571.88	1759560.492	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	0.5	NA	-	-	3	4/12/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-015-404	14871567.9	1759567.415	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable	0.1	NA	-	-	3	4/12/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-015-405	14871591.52	1759557.354	Mag & Dig	Analog	White's XLT	Munitions Debris	Fin	1	81mm, Fin	0.02	NA	-	-	2	4/12/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-015-406	14871565.1	1759582.079	Mag & Dig	Analog	White's XLT	Munitions Debris	Fuze	2	Spit tube fuze part	0.01	NA	-	-	2	4/12/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-015-407	14871588.21	1759580.173	Mag & Dig	Analog	White's XLT	Munitions Debris	Fuze	1	Spit tube fuze part	0	NA	-	-	3	4/12/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-015-408	14871548.98	1759582.791	Mag & Dig	Analog	White's XLT	Munitions Debris	Primer	1	Empty primer tube	0.1	NA	-	-	2	4/12/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-015-409	14871589.49	1759587.744	Mag & Dig	Analog	White's XLT	Munitions Debris	Primer	1	Empty primer tube	0.01	NA	-	-	2	4/12/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-015-410	14871585.51	1759592.459	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	4/12/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-015-411	14871584.82	1759582.357	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	4/12/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-015-412	14871573.73	1759567.663	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	6	Other	0.5	NA	-	-	4	4/12/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-015-413	14871574.75	1759553.019	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	7	Other	3	NA	-	-	4	4/12/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-015-414	14871586.87	1759566.203	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	2	Pipe	0.5	NA	-	-	0	4/12/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-015-415	14871574.75	1759589.068	Mag & Dig	Analog	White's XLT	Munitions Debris	Fuze	1	Brass collar from fuze	0.1	NA	-	-	3	4/12/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-016-1	14871765.75	1760325.56	Channel 2	216.17	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	6	14871765.75	1760326.06	3	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-016-10	14871793.46	1760353.299	Channel 2	73.50	White's XLT	Cultural Debris	Cultural Feature	1	Cultural Feature		0	14871793.46	1760353.299	48	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-016-11	14871777.12	1760336.682	Channel 2	71.69	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	1	14871777.2	1760336.682	3	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-016-12	14871791.99	1760351.916	Channel 2	70.84	White's XLT	Cultural Debris	Cultural Feature	1	Cultural Feature		0	14871791.99	1760351.916	48	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-016-13	14871790.66	1760349.08	Channel 2	69.27	White's XLT	Cultural Debris	Cultural Feature	1	Cultural Feature		0	14871790.66	1760349.08	48	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-016-14	14871790.19	1760333.436	Channel 2	63.25	White's XLT	Cultural Debris	Metal Scrap	1	Shared with targets 6 and 23	0.5	18	14871791.25	1760334.497	0	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-016-15	14871787.93	1760294.721	Channel 2	56.81	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14871787.93	1760294.721	0	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-016-16-1	14871782.49	1760342.472	Channel 2	56.01	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	6	14871782.84	1760342.826	2	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-016-16-2	14871782.49	1760342.472	Channel 2	56.01	White's XLT	Small Arms	Primer	1	shotgun primer	0.01	6	14871782.99	1760342.472	3	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-016-17	14871785.35	1760318.758	Channel 2	44.37	White's XLT	Seed	2" x 8" Pipe	1	Shared with target4	1	6	14871785.35	1760319.258	6	4/25/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-016-18	14871758.06	1760334.794	Channel 2	35.86	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14871758.06	1760334.794	0	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-016-19-1	14871827.64	1760323.813	Channel 2	29.02	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	4	14871827.64	1760324.146	2	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-016-19-2	14871827.64	1760323.813	Channel 2	29.02	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14871827.64	1760323.813	0	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-016-2	14871776.64	1760316.188	Channel 2	185.34	White's XLT	DMM	Fuze	5	Components identified within a burn pit	10	0	14871776.64	1760316.188	12	4/25/2012	Dan Hains	Demolition/Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-016-20	14871801.19	1760307.212	Channel 2	28.06	White's XLT	Cultural Debris	Nail	1	Nail	0.01	4	14871801.43	1760307.448	2	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-016-21	14871799.66	1760308.457	Channel 2	25.24	White's XLT	Cultural Debris	Nail	1	Nail	0.01	0	14871799.66	1760308.457	6	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-016-22	14871801.38	1760309.394	Channel 2	24.96	White's XLT	Cultural Debris	Foil	1	Foil	0.01	3	14871801.63	1760309.394	3	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-016-23	14871787.04	1760338.743	Channel 2	19.46	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target6	0.5	0	14871787.04	1760338.743	0	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-016-24	14871802.66	1760335.246	Channel 2	7.30	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	10	14871802.66	1760336.079	1	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-016-3	14871778.83	1760315.313	Channel 2	132.40	White's XLT	Munitions Debris	Other MD	1	Other MD	2.5	10	14871778.24	1760315.902	12	4/25/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-016-4	14871787.04	1760316.371	Channel 2	104.57	White's XLT	Seed	2" x 8" Pipe	1	Shared with target17	1	6	14871787.04	1760316.871	6	4/25/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-016-5	14871789.46	1760335.494	Channel 2	100.07	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14871789.46	1760335.494	1	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-016-6	14871786.66	1760335.925	Channel 2	89.93	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	15	14871787.91	1760335.925	0	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-016-7	14871800.77	1760358.967	Channel 2	86.16	White's XLT	Cultural Debris	Cultural Feature	1	Cultural Feature		0	14871800.77	1760358.967	48	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-016-8	14871798.38	1760364.33	Channel 2	76.83	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14871798.38	1760364.33	0	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-016-9	14871797.29	1760356.106	Channel 2	75.68	White's XLT	Cultural Debris	Cultural Feature	1	Cultural Feature		0	14871797.29	1760356.106	48	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-017-1	14871289.4	1760447.33	Channel 2	535.95	White's XLT	Cultural Debris	Metal Scrap	1	dome cap	0.5	3	14871289.65	1760447.33	0	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-10	14871286.48	1760450.07	Channel 2	43.83	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14871286.48	1760450.07	0	4/15/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-017-11	14871301.49	1760395.545	Channel 2	37.01	White's XLT	Cultural Debris	Pipe	1	Pipe	0.5	10	14871300.66	1760395.545	8	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-12	14871254.56	1760417.258	Channel 2	34.21	White's XLT	Cultural Debris	Nail	1	Nail	0.01	10	14871253.73	1760417.258	1	4/15/2012	Dan Hains	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26OR-017-13	14871289.6	1760437.825	Channel 2	32.15	White's XLT	Cultural Debris	Pipe	1	Shared with target 16	0.02	8	14871290.07	1760437.354	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-14	14871320.75	1760413.699	Channel 2	30.11	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14871320.75	1760413.699	0	4/15/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-017-15	14871294.63	1760441.405	Channel 2	23.78	White's XLT	Cultural Debris	Metal Scrap	1	slag	0.02	13	14871293.86	1760440.639	4	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-16	14871292.44	1760439.382	Channel 2	23.69	White's XLT	Cultural Debris	Pipe	1	Pipe	0.02	8	14871291.97	1760439.853	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-17	14871284.74	1760379.698	Channel 2	22.83	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14871284.74	1760379.698	0	4/15/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-017-18	14871292.93	1760431.387	Channel 2	16.87	White's XLT	Cultural Debris	Pipe	1	Pipe	0.01	8	14871292.46	1760430.916	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-19-1	14871294.11	1760430.144	Channel 2	14.73	White's XLT	Cultural Debris	Pipe	1	Pipe	0.01	4	14871294.35	1760429.908	6	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-19-2	14871294.11	1760430.144	Channel 2	14.73	White's XLT	Cultural Debris	Pipe	1	Pipe	0.01	4	14871294.35	1760429.908	6	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-2	14871312.89	1760406.588	Channel 2	86.30	White's XLT	Cultural Debris	Metal Scrap	1	eletric box	2	16	14871311.95	1760405.645	6	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-20	14871295.8	1760414.947	Channel 2	14.65	White's XLT	Cultural Debris	Metal Scrap	1	pipe cap	0.1	4	14871296.13	1760414.947	18	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-21-1	14871294.36	1760435.627	Channel 2	14.41	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	4	14871294.6	1760435.391	4	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-21-2	14871294.36	1760435.627	Channel 2	14.41	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	4	14871294.6	1760435.391	4	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-22	14871304.23	1760431.245	Channel 2	14.05	White's XLT	Cultural Debris	Pipe	1	[[pipe fitings	0.01	10	14871304.23	1760430.412	6	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-23-1	14871275.65	1760431.765	Channel 2	13.34	White's XLT	Cultural Debris	Metal Scrap	1	metal plate	0.01	12	14871276.36	1760432.472	1	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-23-2	14871275.65	1760431.765	Channel 2	13.34	White's XLT	Cultural Debris	Nail	4	Nail	0.5	15	14871274.77	1760430.881	2	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-24	14871251.38	1760416.975	Channel 2	11.85	White's XLT	Cultural Debris	Metal Scrap	1	raik road spike	1	5	14871251.09	1760416.68	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-25	14871250.12	1760415.722	Channel 2	11.53	White's XLT	Cultural Debris	Concrete	1	3 x 4 ft concret slab		0	14871250.12	1760415.722	3	4/15/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-017-26	14871309.04	1760426.089	Channel 2	10.05	White's XLT	Cultural Debris	Pipe	1	Pipe	0.5	12	14871310.04	1760426.089	4	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-27-1	14871274.11	1760438.406	Channel 2	9.90	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	4	14871274.35	1760438.17	4	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-27-2	14871274.11	1760438.406	Channel 2	9.90	White's XLT	Cultural Debris	Nail	5	Nail	0.5	24	14871275.52	1760439.82	6	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-28	14871300.19	1760418.964	Channel 2	8.50	White's XLT	Cultural Debris	Metal Scrap	1	pin flag without flag	0	24	14871302.19	1760418.964	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-29	14871304.09	1760428.284	Channel 2	8.39	White's XLT	Cultural Debris	Pipe	2	pipe elviw	0.02	12	14871305.09	1760428.284	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-3	14871300.54	1760435.279	Channel 2	85.83	White's XLT	Cultural Debris	Pipe	2	Pipe	0.1	8	14871300.07	1760435.75	6	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-30	14871253.82	1760419.28	Channel 2	8.36	White's XLT	Cultural Debris	Metal Scrap	1	copper wire	0.01	18	14871253.82	1760420.78	6	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-31-1	14871285.34	1760433.976	Channel 2	8.17	White's XLT	Cultural Debris	Nail	4	Nail	0.01	24	14871283.34	1760433.976	4	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-31-2	14871285.34	1760433.976	Channel 2	8.17	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	12	14871286.05	1760433.269	2	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-32	14871283.69	1760441.933	Channel 2	8.09	White's XLT	Cultural Debris	Bolt	1	Bolt	0.02	14	14871284.86	1760441.933	6	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-33-1	14871313.38	1760420.491	Channel 2	6.89	White's XLT	Cultural Debris	Metal Scrap	1	nail	0.01	0	14871313.38	1760420.491	4	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-33-2	14871313.38	1760420.491	Channel 2	6.89	White's XLT	Cultural Debris	Metal Scrap	1	washer	0.01	18	14871314.88	1760420.491	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-34	14871274.88	1760433.443	Channel 2	6.45	White's XLT	Cultural Debris	Nail	6	Nail	0.02	1	14871274.8	1760433.443	1	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-35	14871306.83	1760414.291	Channel 2	5.75	White's XLT	Cultural Debris	Metal Scrap	1	nut and fitting	0.01	12	14871307.83	1760414.291	6	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-36	14871297.01	1760407.769	Channel 2	4.41	White's XLT	Cultural Debris	Metal Scrap	1	weikdi rod	0.01	20	14871295.34	1760407.769	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-37	14871295.13	1760422.443	Channel 2	3.38	White's XLT	Cultural Debris	Metal Scrap	1	slag pit		18	14871295.13	1760420.943	8	4/15/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-017-38-1	14871272.38	1760414.701	Channel 2	2.33	White's XLT	Geology	Hot rock	1	Hot rock		4	14871272.38	1760415.034	12	4/15/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-017-38-2	14871272.38	1760414.701	Channel 2	2.33	White's XLT	Cultural Debris	Nail	1	Nail	0.01	12	14871273.38	1760414.701	0	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-39	14871308.22	1760421.112	Channel 2	1.39	White's XLT	Cultural Debris	Bolt	1	2 in bolt	0.01	8	14871308.22	1760421.779	8	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-4-1	14871295.68	1760409.3	Channel 2	81.25	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	1	4	14871295.92	1760409.536	4	4/15/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-017-4-2	14871295.68	1760409.3	Channel 2	81.25	White's XLT	Cultural Debris	Pipe	1	seed item	1	12	14871296.39	1760410.007	4	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-5-1	14871296.01	1760412.434	Channel 2	76.75	White's XLT	Cultural Debris	Pipe	1	Shared with target4	1	12	14871295.3	1760413.141	4	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-5-2	14871296.01	1760412.434	Channel 2	76.75	White's XLT	Cultural Debris	Pipe	1	Shared with target 4	1	12	14871295.3	1760413.141	4	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-6	14871286.23	1760447.103	Channel 2	59.47	White's XLT	Cultural Debris	Metal Scrap	1	metal rod shared with target 7	0.5	12	14871286.23	1760448.103	0	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-7	14871283.96	1760447.697	Channel 2	45.21	White's XLT	Cultural Debris	Metal Scrap	1	netal rod	0.01	8	14871284.63	1760447.697	0	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-017-8	14871309.36	1760405.761	Channel 2	44.52	White's XLT	No Contact		1	no find						4/15/2012	Dan Hains	NA
1926 Explosion Radius	26OR-017-9	14871291.86	1760444.243	Channel 2	44.06	White's XLT	Cultural Debris	Metal Scrap	1	nails and slag	0.01	12	14871292.86	1760444.243	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-1	14872716.67	1761618.76	Channel 2	23.77	White's XLT	Cultural Debris	Metal Scrap	1	Metal Banding and Pipes	0.5	8	14872717.14	1761618.289	1	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-10	14872703.83	1761632.22	Channel 2	120.73	White's XLT	Seed	2" x 8" Pipe	1	Shared with target 12	1	1	14872703.77	1761632.279	4	4/20/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-018-11	14872682.08	1761631.8	Channel 2	2879.01	White's XLT	Cultural Debris	Pipe	1	Shared with targets 8 and 9	30	0	14872682.08	1761631.8	0	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-12	14872702.03	1761633.4	Channel 2	156.83	White's XLT	Seed	2" x 8" Pipe	1	Shared with target 10		2	14872702.15	1761633.518	6	4/20/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-018-13	14872711.32	1761650.31	Channel 2	25.46	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 14	1	8	14872711.79	1761649.839	3	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-14	14872709.2	1761652.97	Channel 2	39.43	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 13	1	6	14872708.85	1761652.616	2	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-15	14872711	1761657.8	Channel 2	11.14	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	4	14872710.76	1761658.036	3	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-018-16	14872722.85	1761661.56	Channel 2	876.01	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 26	3	0	14872722.85	1761661.56	1	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-17	14872684.86	1761660.44	Channel 2	121.13	White's XLT	Cultural Debris	Pipe	1	Shared with target 18	1	0	14872684.86	1761660.44	0	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-18	14872684.79	1761662.19	Channel 2	177.14	White's XLT	Cultural Debris	Pipe	1	Shared with target 17	1	0	14872684.79	1761662.19	0	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-19	14872724.57	1761668.08	Channel 2	19.96	White's XLT	Cultural Debris	Nail	1	Corner Nail		0	14872724.57	1761668.08	0	4/20/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-018-2	14872706.68	1761618.33	Channel 2	13.29	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	12	14872707.39	1761617.623	0	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-20	14872674.77	1761663.42	Channel 2	54.94	White's XLT	Cultural Debris	Metal Scrap	1	Metal Plate	0.01	6	14872675.12	1761663.066	2	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-21	14872676.8	1761617.07	Channel 2	28.80	White's XLT	Cultural Debris	Nail	1	Corner Nail		0	14872676.8	1761617.07	0	4/20/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-018-22-1	14872726.65	1761619.19	Channel 2	48.00	White's XLT	Cultural Debris	Nail	1	Nail		0	14872726.65	1761619.19	0	4/20/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-018-22-2	14872726.65	1761619.19	Channel 2	48.00	White's XLT	Cultural Debris	Wire	1	Wire	0.01	24	14872725.24	1761617.776	1	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-22-3	14872726.65	1761619.19	Channel 2	48.00	White's XLT	Cultural Debris	Metal Scrap	2	Screw and Nail	0	8	14872726.18	1761618.719	1	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-23-1	14872724.07	1761632.68	Channel 2	205.33	White's XLT	Cultural Debris	Pipe	1	Pipe and Fitting	0.1	8	14872724.54	1761632.209	2	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-23-2	14872724.07	1761632.68	Channel 2	205.33	White's XLT	Cultural Debris	Metal Scrap	1	Metal Banding	0.01	18	14872725.13	1761633.741	2	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-24	14872677.99	1761632.54	Channel 2	1052.51	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	24	14872679.4	1761631.126	1	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-25-1	14872725.9	1761635.69	Channel 2	208.45	White's XLT	Cultural Debris	Wire	1	Wire	0.01	4	14872725.66	1761635.926	1	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-25-2	14872725.9	1761635.69	Channel 2	208.45	White's XLT	Cultural Debris	Pipe	1	Pipe	2	10	14872725.31	1761635.101	0	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-26-1	14872720.99	1761659.26	Channel 2	579.47	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 16	3	3	14872721.24	1761659.26	1	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-26-2	14872720.99	1761659.26	Channel 2	579.47	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	6	14872721.34	1761659.614	1	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-3	14872716.51	1761622.5	Channel 2	148.65	White's XLT	Cultural Debris	Pipe	1	Pipe	1	6	14872716.16	1761622.146	3	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-4	14872710.43	1761624.01	Channel 2	194.76	White's XLT	Cultural Debris	Metal Scrap	1	Metal Banding	0.1	2	14872710.31	1761624.128	1	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-5-1	14872679.34	1761624.24	Channel 2	67.05	White's XLT	Munitions Debris	Frag	1	Fragment	5	18	14872680.4	1761623.179	0	4/20/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-018-5-2	14872679.34	1761624.24	Channel 2	67.05	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	11	14872679.34	1761623.323	1	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-6	14872714.36	1761625.92	Channel 2	305.72	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 7	2	8	14872713.89	1761625.449	2	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-7	14872712.3	1761627.33	Channel 2	254.71	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 6	2	6	14872711.95	1761627.684	2	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-8	14872688.05	1761629.98	Channel 2	2524.03	White's XLT	Cultural Debris	Pipe	1	Shared with targets 9 and 11	30	0	14872688.05	1761629.98	0	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-018-9	14872685.2	1761630.98	Channel 2	2258.05	White's XLT	Cultural Debris	Pipe	1	Shared with target 8 and 11	30	0	14872685.2	1761630.98	0	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-10	14871991.09	1761093.345	Channel 2	1365.81	White's XLT	Cultural Debris	Concrete	1	Concrete Footer Rebar Shared with Target 4		0	14871991.09	1761093.345	0	4/20/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-019-11	14871991.82	1761076.641	Channel 2	795.28	White's XLT	Cultural Debris	Metal Scrap	1	Shared with targets 2 and 3	0.01	1	14871991.74	1761076.641	1	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-1-1	14871975.08	1761106.238	Channel 2	12900.77	White's XLT	Cultural Debris	Bolt	2	Bolt and Washer	1	0	14871975.08	1761106.238	2	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-12	14871974.67	1761083.876	Channel 2	372.83	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	12.5	6	14871974.32	1761084.23	2	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-1-2	14871975.08	1761106.238	Channel 2	12900.77	White's XLT	Cultural Debris	Concrete	1	Footer with Rebar		24	14871975.08	1761108.238	0	4/20/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-019-13	14871973.72	1761082.687	Channel 2	333.99	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 12	12.5	6	14871974.07	1761083.041	2	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-1-3	14871975.08	1761106.238	Channel 2	12900.77	White's XLT	Cultural Debris	Construction Debris	1	Large Steel Beam		0	14871975.08	1761106.238	0	4/20/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-019-14	14871996.41	1761115.27	Channel 2	184.13	White's XLT	Cultural Debris	Metal Scrap	1	banding scrap hole	0.01	24	14871998.41	1761115.27	2	4/22/2012	Dan Hains	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26OR-019-15	14871981.01	1761082.929	Channel 2	155.17	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	0.01	3	14871981.01	1761082.679	1	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-16	14871990.15	1761068.818	Channel 2	135.41	White's XLT	Cultural Debris	Pipe	1	Pipe	5	24	14871988.15	1761068.818	1	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-17	14871987.45	1761081.642	Channel 2	131.04	White's XLT	Cultural Debris	Nail	1	Nail	0.01	2	14871987.45	1761081.809	1	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-18	14871983.07	1761084.07	Channel 2	90.05	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.5	0	14871983.07	1761084.07	6	4/22/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-019-19	14871980.94	1761119.86	Channel 2	66.15	White's XLT	Cultural Debris	Pipe	1	Pipe grown into tree roots	1	14	14871980.12	1761119.035	1	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-2	14871998.06	1761073.46	Channel 2	12875.67	White's XLT	Cultural Debris	Metal Scrap	1	I beam		0	14871998.06	1761073.46	0	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-019-20	14871975.74	1761087.858	Channel 2	62.81	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14871975.74	1761087.858	3	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-21-1	14871949.58	1761089.031	Channel 2	60.55	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14871949.58	1761089.031	0	4/22/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-019-21-2	14871949.58	1761089.031	Channel 2	60.55	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	2	14871949.7	1761089.149	3	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-22	14872002.77	1761089.144	Channel 2	51.60	White's XLT	Cultural Debris	Asphalt	1	Asphalt	0.01	0	14872002.77	1761089.144	4	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-23	14871956.66	1761085.12	Channel 2	50.60	White's XLT	Cultural Debris	Nail	1	Nail	0.01	8	14871957.13	1761085.591	2	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-24	14871990.87	1761114.056	Channel 2	50.37	White's XLT	Cultural Debris	Metal Scrap	1	axe head	5	24	14871989.46	1761115.47	0	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-25	14872000.27	1761088.246	Channel 2	43.01	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	3	14872000.02	1761088.246	8	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-26	14871982.47	1761116.436	Channel 2	40.18	White's XLT	Cultural Debris	Pipe	1	Shared with target 19		18	14871983.97	1761116.436	4	4/22/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-019-27	14871984.41	1761081.327	Channel 2	32.88	White's XLT	Cultural Debris	Wire	1	Wire	0.01	7	14871984.99	1761081.327	1	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-28	14871955.92	1761087.712	Channel 2	30.77	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14871955.92	1761087.712	2	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-29	14871980.1	1761072.043	Channel 2	29.73	White's XLT	Cultural Debris	Metal Scrap	1	pipe fitting and nail	0.01	4	14871979.86	1761071.807	2	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-3	14871994.78	1761075.281	Channel 2	12391.96	White's XLT	Cultural Debris	Metal Scrap	1	Shared with targets 2 and 11	0.01	0	14871994.78	1761075.281	1	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-30-1	14871969.6	1761098.42	Channel 2	28.08	White's XLT	Cultural Debris	Pipe	1	Pipe	0.5	4	14871969.27	1761098.42	4	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-30-2	14871969.6	1761098.42	Channel 2	28.08	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	8	14871969.13	1761098.891	4	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-31	14871997.36	1761101.017	Channel 2	25.53	White's XLT	Cultural Debris	Wire	1	Wire	0.01	0	14871997.36	1761101.017	2	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-32	14871999.32	1761102.498	Channel 2	23.75	White's XLT	Cultural Debris	Concrete	1	utility pipe concret		3	14871999.57	1761102.498	24	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-019-33	14872000.73	1761104.003	Channel 2	23.03	White's XLT	Cultural Debris	Concrete	1	Shared with target 32		0	14872000.73	1761104.003	24	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-019-34	14872001.14	1761105.776	Channel 2	22.97	White's XLT	Cultural Debris	Concrete	1	Shared with targets 32, 33, 35, 36 and 39		0	14872001.14	1761105.776	24	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-019-35	14872005.95	1761108.252	Channel 2	18.69	White's XLT	Cultural Debris	Concrete	1	Shared with targets 32, 33, 34, 36 and 39		0	14872005.95	1761108.252	24	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-019-36	14872006.58	1761109.903	Channel 2	18.61	White's XLT	Cultural Debris	Concrete	1	Shared with target 32, 33, 34, 35 and 39		0	14872006.58	1761109.903	24	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-019-37	14872007.77	1761111.53	Channel 2	18.48	White's XLT	Cultural Debris	Nail	1	Nail	0.01	0	14872007.77	1761111.53	3	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-38	14871974.41	1761075.205	Channel 2	18.42	White's XLT	Cultural Debris	Wire	1	Wire	0.01	24	14871972.41	1761075.205	3	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-39	14872008.84	1761112.938	Channel 2	16.37	White's XLT	Cultural Debris	Concrete	1	Concrete		0	14872008.84	1761112.938	24	4/25/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-019-4	14871987.15	1761095.53	Channel 2	12248.33	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	3	14871986.97	1761095.707	3	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-40	14871993.07	1761064.896	Channel 2	15.92	White's XLT	Cultural Debris	Nail	1	Nail	0.01	1	14871993.15	1761064.896	0	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-41	14871964.62	1761092.034	Channel 2	13.10	White's XLT	Cultural Debris	Nail	1	Nail	0.01	4	14871964.95	1761092.034	3	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-42	14871963.23	1761085.94	Channel 2	11.03	White's XLT	Cultural Debris	Nail	1	Nail	0.01	24	14871963.23	1761087.94	2	4/22/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-43	14871983.03	1761075.233	Channel 2	10.86	White's XLT	No Contact		1	No Contact						4/25/2012	Dan Hains	NA
1926 Explosion Radius	26OR-019-44	14871978.62	1761088.843	Channel 2	9.80	White's XLT	Cultural Debris	Nail	1	Nail	0.01	12	14871979.62	1761088.843	1	4/25/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-45	14871983.97	1761076.422	Channel 2	9.17	White's XLT	No Contact		1	No Contact						4/25/2012	Dan Hains	NA
1926 Explosion Radius	26OR-019-46	14871982.13	1761077.734	Channel 2	8.54	White's XLT	No Contact		1	No Contact						4/25/2012	Dan Hains	NA
1926 Explosion Radius	26OR-019-5	14871984.75	1761096.866	Channel 2	11971.98	White's XLT	Cultural Debris	Construction Debris	1	Bolt and Washer Also Shared Steel Beam With Target 6 and7	1	4	14871984.75	1761096.533	3	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-019-6	14871982.66	1761100.314	Channel 2	11964.92	White's XLT	Cultural Debris	Construction Debris	1	Steel Beam Shared with Target 6 and 7		0	14871982.66	1761100.314	0	4/20/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-019-7	14871981.35	1761101.042	Channel 2	11930.44	White's XLT	Cultural Debris	Construction Debris	1	Shared with targets 5 and 7		0	14871981.35	1761101.042	0	4/20/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-019-8	14871966.44	1761118.476	Channel 2	11857.36	White's XLT	Cultural Debris	Concrete	1	Large Concrete Beam with Steel Rods/Rebar Imbedded		4	14871966.2	1761118.24	0	4/20/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-019-9	14871977.66	1761101.091	Channel 2	1448.27	White's XLT	Cultural Debris	Nail	2	Nail	0.01	6	14871977.66	1761101.591	3	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-1	14871361.91	1760300.277	Channel 2	5988.17	White's XLT	Cultural Debris	Cultural Feature	1	steam pipe shared with target 2, 3, 4		6	14871361.41	1760300.277	0	4/15/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-020-10	14871340.81	1760319.216	Channel 2	234.84	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	6	14871340.81	1760319.716	8	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-11	14871368.12	1760308.419	Channel 2	207.88	White's XLT	Cultural Debris	Metal Scrap	1	pipe and valve	5	18	14871368.12	1760306.919	6	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-12	14871367.23	1760312.667	Channel 2	207.06	White's XLT	Cultural Debris	Metal Scrap	1	weikdibg rods	1.5	18	14871368.29	1760313.728	6	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-13-1	14871382.84	1760316.462	Channel 2	201.89	White's XLT	Cultural Debris	Pipe	1	fitting pipe	0.5	24	14871380.84	1760316.462	6	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-13-2	14871382.84	1760316.462	Channel 2	201.89	White's XLT	Cultural Debris	Pipe	1	Pipe	2	8	14871382.17	1760316.462	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-13-3	14871382.84	1760316.462	Channel 2	201.89	White's XLT	Cultural Debris	Metal Scrap	1	metal brace	1	8	14871382.37	1760315.991	4	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-14-1	14871387.21	1760320.014	Channel 2	192.00	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	8	14871386.74	1760319.543	2	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-14-2	14871387.21	1760320.014	Channel 2	192.00	White's XLT	Cultural Debris	Metal Scrap	1	metal staples x 12	1	4	14871386.97	1760320.25	6	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-15	14871342.41	1760320.391	Channel 2	175.76	White's XLT	Geology	Hot rock	1	Hot rock		8	14871343.08	1760320.391	1	4/15/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-020-16-1	14871384.41	1760318.001	Channel 2	139.42	White's XLT	Cultural Debris	Metal Scrap	1	angle iron	0.5	4	14871384.65	1760317.765	1	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-16-2	14871384.41	1760318.001	Channel 2	139.42	White's XLT	Cultural Debris	Metal Scrap	1	angle irin	0.1	6	14871384.41	1760317.501	1	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-16-3	14871384.41	1760318.001	Channel 2	139.42	White's XLT	Geology	Hot rock	1	Hot rock		1	14871384.49	1760318.001	0	4/15/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-020-17	14871357.71	1760344.507	Channel 2	131.14	White's XLT	Cultural Debris	Metal Scrap	1	foil	0.01	11	14871357.71	1760343.59	2	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-18-1	14871333.19	1760336.199	Channel 2	127.07	White's XLT	Cultural Debris	Pipe	1	Pipe	2	3	14871333.19	1760336.449	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-18-2	14871333.19	1760336.199	Channel 2	127.07	White's XLT	Cultural Debris	Metal Scrap	1	rail rozd spike	1	24	14871333.19	1760334.199	4	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-19	14871358.72	1760340.125	Channel 2	120.62	White's XLT	Cultural Debris	Bolt	1	Shared with target 21	0.5	12	14871358.72	1760341.125	0	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-2	14871360.83	1760301.643	Channel 2	5608.01	White's XLT	Cultural Debris	Cultural Feature	1	steam pipe shared with target 1, 3, 4		6	14871360.33	1760301.643	0	4/15/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-020-20-1	14871378.62	1760320.368	Channel 2	119.93	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14871378.62	1760320.368	4	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-20-2	14871378.62	1760320.368	Channel 2	119.93	White's XLT	Geology	Hot rock	1	Hot rock		4	14871378.62	1760320.035	0	4/15/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-020-21	14871356.23	1760343.198	Channel 2	111.32	White's XLT	Cultural Debris	Bolt	1	Shared with target 19	0.5	12	14871356.23	1760342.198	0	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-22-1	14871378.59	1760317.701	Channel 2	111.30	White's XLT	Cultural Debris	Metal Scrap	1	slag	0.5	18	14871379.65	1760318.762	2	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-22-2	14871378.59	1760317.701	Channel 2	111.30	White's XLT	Cultural Debris	Metal Scrap	1	rod	0.1	12	14871377.88	1760318.408	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-22-3	14871378.59	1760317.701	Channel 2	111.30	White's XLT	Cultural Debris	Metal Scrap	1	rod	0.1	6	14871378.94	1760318.055	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-22-4	14871378.59	1760317.701	Channel 2	111.30	White's XLT	Cultural Debris	Metal Scrap	1	door lock	0.1	0	14871378.59	1760317.701	1	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-23	14871373.75	1760315.324	Channel 2	93.07	White's XLT	Munitions Debris	Fuze	1	Dummy Fuze	3	14	14871374.57	1760316.149	1	4/15/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-020-24-1	14871354.34	1760339.118	Channel 2	92.73	White's XLT	Cultural Debris	Metal Scrap	1	rebar	0.5	4	14871354.1	1760339.354	2	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-24-2	14871354.34	1760339.118	Channel 2	92.73	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	10	12	14871354.34	1760340.118	0	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-24-3	14871354.34	1760339.118	Channel 2	92.73	White's XLT	Cultural Debris	Pipe	1	Pipe	0.1	12	14871353.63	1760338.411	8	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-24-4	14871354.34	1760339.118	Channel 2	92.73	White's XLT	Munitions Debris	Tube	1	Burster Tube, Functioned	0.01	9	14871353.81	1760339.648	8	4/15/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-020-25	14871373.47	1760312.926	Channel 2	92.61	White's XLT	Cultural Debris	Metal Scrap	1	food can	0.01	12	14871374.47	1760312.926	0	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-26	14871349.55	1760339.915	Channel 2	90.81	White's XLT	Munitions Debris	Submunition	1	1/2 BDU Wax Filled	0.1	4	14871349.55	1760340.248	1	4/15/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-020-27	14871361.97	1760313.342	Channel 2	88.38	White's XLT	Cultural Debris	Nail	1	Nail	0.1	12	14871360.97	1760313.342	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-28	14871345.64	1760344.599	Channel 2	84.62	White's XLT	Cultural Debris	Metal Scrap	1	Shared with targets 30 and 35	1	1	14871345.56	1760344.599	2	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-29	14871347.96	1760319.802	Channel 2	78.65	White's XLT	Cultural Debris	Nail	1	lots of nails in whole		0	14871347.96	1760319.802	1	4/15/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-020-3	14871363.18	1760299.629	Channel 2	4555.63	White's XLT	Cultural Debris	Cultural Feature	1	steam pipe shad with target 1, 2, 4		6	14871362.68	1760299.629	0	4/15/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-020-30-1	14871345.46	1760341.56	Channel 2	65.85	White's XLT	Cultural Debris	Metal Scrap	1	Shared with targets 35 and 28	1	1	14871345.38	1760341.56	2	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-30-2	14871345.46	1760341.56	Channel 2	65.85	White's XLT	Cultural Debris	Metal Scrap	1	Shared with targets 35 and 30	1	1	14871345.38	1760341.56	2	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-31	14871341.11	1760345.856	Channel 2	64.02	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	0.5	12	14871341.11	1760346.856	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-32-1	14871376.05	1760326.243	Channel 2	54.84	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	3	14871375.8	1760326.243	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-32-2	14871376.05	1760326.243	Channel 2	54.84	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	6	14871376.05	1760326.743	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-32-3	14871376.05	1760326.243	Channel 2	54.84	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	6	14871376.55	1760326.243	6	4/15/2012	Dan Hains	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26OR-020-33	14871365.55	1760305.904	Channel 2	52.39	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	24	14871365.55	1760303.904	2	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-34	14871357.33	1760325.465	Channel 2	51.66	White's XLT	Cultural Debris	Pipe	1	Pipe	0.02	4	14871357.57	1760325.701	2	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-35	14871343.39	1760345.243	Channel 2	51.00	White's XLT	Cultural Debris	Metal Scrap	1	Shared with targets 28 and 30	1	12	14871343.39	1760344.243	2	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-36	14871354.38	1760293.36	Channel 2	49.97	White's XLT	Cultural Debris	Nail	1	Nail	0.01	8	14871355.05	1760293.36	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-37	14871354.11	1760357.371	Channel 2	49.77	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14871354.11	1760357.371	0	4/15/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-020-38	14871345.63	1760293.76	Channel 2	49.60	White's XLT	Cultural Debris	Metal Scrap	1	rebar 12 in long	0.5	18	14871345.63	1760292.26	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-39	14871347.25	1760340.605	Channel 2	47.55	White's XLT	Geology	Hot rock	1	Hot rock		3	14871347.5	1760340.605	0	4/15/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-020-4	14871359.01	1760302.74	Channel 2	4228.52	White's XLT	Cultural Debris	Cultural Feature	1	steam line, shared with targets 1, 2, 3		6	14871358.51	1760302.74	0	4/15/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-020-40	14871368.62	1760316.777	Channel 2	46.89	White's XLT	Cultural Debris	Pipe	1	pipe and bolt	1	18	14871367.12	1760316.777	6	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-41	14871350.96	1760335.89	Channel 2	44.14	White's XLT	Seed	2" x 8" Pipe	1	Shared with target 46	0.5	6	14871351.31	1760335.536	6	4/15/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-020-42	14871367.77	1760342.63	Channel 2	38.82	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	12	14871367.77	1760341.63	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-43-1	14871352	1760293.885	Channel 2	38.12	White's XLT	Cultural Debris	Metal Scrap	1	penny 1966	0	12	14871352.71	1760294.592	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-43-2	14871352	1760293.885	Channel 2	38.12	White's XLT	Cultural Debris	Metal Scrap	1	elecic conduit	1	2	14871351.88	1760293.767	1	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-44	14871343.78	1760334.798	Channel 2	36.37	White's XLT	Cultural Debris	Metal Scrap	1	angle iron	0.1	1	14871343.86	1760334.798	1	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-45	14871348.28	1760293.473	Channel 2	34.08	White's XLT	Cultural Debris	Metal Scrap	1	metal fragments very small	0	24	14871348.28	1760291.473	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-46	14871353.36	1760335.618	Channel 2	33.25	White's XLT	Seed	2" x 8" Pipe	1	Shared with target 41	0.5	6	14871353.71	1760335.972	6	4/15/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-020-47	14871355.33	1760326.094	Channel 2	31.14	White's XLT	Cultural Debris	Bolt	1	bolt and washer	0.1	6	14871354.98	1760325.74	2	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-48	14871365.42	1760335.273	Channel 2	27.99	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	2	14871365.42	1760335.106	0	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-49-1	14871363.59	1760317.589	Channel 2	24.66	White's XLT	Cultural Debris	Wire	1	Wire	0.01	12	14871363.59	1760318.589	0	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-49-2	14871363.59	1760317.589	Channel 2	24.66	White's XLT	Cultural Debris	Pipe	1	Pipe	0.1	8	14871364.06	1760317.118	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-5	14871372.77	1760309.664	Channel 2	870.17	White's XLT	Cultural Debris	Pipe	2	Pipe	1.5	3	14871372.52	1760309.664	1	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-50	14871344.9	1760338.67	Channel 2	23.48	White's XLT	Geology	Hot rock	1	Hot rock		4	14871344.9	1760339.003	6	4/15/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-020-51	14871364.16	1760339.67	Channel 2	23.07	White's XLT	Cultural Debris	Metal Scrap	1	rebar	0.5	4	14871364.16	1760340.003	2	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-52	14871365.87	1760319.612	Channel 2	21.74	White's XLT	Cultural Debris	Metal Scrap	1	metal ring	0.01	12	14871366.58	1760318.905	2	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-53	14871338.69	1760341.078	Channel 2	21.16	White's XLT	Cultural Debris	Brass	1	brass punch	0.5	4	14871338.69	1760340.745	1	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-54	14871368.1	1760327.104	Channel 2	19.73	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	3	14871368.1	1760327.354	4	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-55	14871351.89	1760296.433	Channel 2	18.97	White's XLT	Cultural Debris	Nail	1	Nail	0.01	6	14871352.24	1760296.787	2	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-56	14871317.7	1760325.132	Channel 2	17.22	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14871317.7	1760325.132	0	4/15/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-020-57	14871366.05	1760333.201	Channel 2	16.92	White's XLT	Cultural Debris	Metal Scrap	1	nut	0.01	8	14871366.05	1760332.534	2	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-58	14871347.48	1760303.308	Channel 2	16.43	White's XLT	Cultural Debris	Nail	2	Nail	0.01	12	14871347.48	1760304.308	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-59	14871361.54	1760342.624	Channel 2	16.39	White's XLT	Cultural Debris	Metal Scrap	1	washer	0.02	6	14871362.04	1760342.624	6	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-60-1	14871357.36	1760317.583	Channel 2	15.81	White's XLT	Cultural Debris	Metal Scrap	1	weilding rod	0.1	8	14871357.36	1760316.916	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-60-2	14871357.36	1760317.583	Channel 2	15.81	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	8	14871357.36	1760316.916	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-61	14871337.74	1760337.831	Channel 2	14.62	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	1	14871337.74	1760337.748	2	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-6-1	14871375.07	1760333.039	Channel 2	469.36	White's XLT	Cultural Debris	Metal Scrap	1	metal bar	5	2	14871374.9	1760333.039	2	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-62	14871333.38	1760320.3	Channel 2	14.49	White's XLT	Cultural Debris	Pipe	1	pipe punch	0.1	12	14871334.38	1760320.3	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-6-2	14871375.07	1760333.039	Channel 2	469.36	White's XLT	Cultural Debris	Metal Scrap	1	metal bar	5	12	14871375.07	1760332.039	2	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-63	14871346.21	1760299.063	Channel 2	13.31	White's XLT	Cultural Debris	Metal Scrap	1	screw	0.1	24	14871346.21	1760301.063	2	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-6-3	14871375.07	1760333.039	Channel 2	469.36	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	2	14871374.9	1760333.039	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-64	14871349.84	1760310.919	Channel 2	12.38	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	24	14871349.84	1760308.919	2	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-65	14871370.3	1760323.539	Channel 2	11.56	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	16	14871371.24	1760322.596	4	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-66	14871344.84	1760303.848	Channel 2	11.52	White's XLT	Cultural Debris	Nail	1	Nail	0.01	18	14871344.84	1760302.348	2	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-67	14871351.51	1760306.878	Channel 2	8.73	White's XLT	Cultural Debris	Metal Scrap	1	paint brush ,. wire brush	0.1	24	14871353.51	1760306.878	1	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-68	14871367.92	1760324.064	Channel 2	7.54	White's XLT	Cultural Debris	Wire	1	Wire	0.01	4	14871367.92	1760324.397	4	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-69	14871342.24	1760298.667	Channel 2	7.28	White's XLT	Cultural Debris	Metal Scrap	1	metal screen	0.01	12	14871341.53	1760299.374	6	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-7-1	14871382.65	1760323.939	Channel 2	254.05	White's XLT	Cultural Debris	Metal Scrap	1	coke can	0.01	12	14871381.65	1760323.939	0	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-7-2	14871382.65	1760323.939	Channel 2	254.05	White's XLT	Cultural Debris	Metal Scrap	1	slag pit		0	14871382.65	1760323.939	12	4/15/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-020-8	14871339.47	1760320.187	Channel 2	251.91	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	1	14871339.53	1760320.128	12	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-020-9	14871367.75	1760310.729	Channel 2	237.71	White's XLT	Cultural Debris	Pipe	1	Pipe	0.5	8	14871367.75	1760310.062	3	4/15/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-021-1	14872830.48	1761757.16	Channel 2	359.40	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	5	4	14872830.15	1761757.16	2	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-021-10	14872872.28	1761744.94	Channel 2	39.12	White's XLT	Cultural Debris	Nail	1	Corner Nail		0	14872872.28	1761744.94	0	4/20/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-021-11	14872818.55	1761719.747	Channel 2	38.52	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	24	14872816.55	1761719.747	2	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-021-12-1	14872846.12	1761702.352	Channel 2	35.17	White's XLT	Cultural Debris	Wire	1	Wire	0.01	24	14872846.12	1761704.352	2	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-021-12-2	14872846.12	1761702.352	Channel 2	35.17	White's XLT	Cultural Debris	Nail	1	Corner Nail		0	14872846.12	1761702.352	0	4/20/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-021-13	14872852.58	1761724.279	Channel 2	30.86	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	3	14872852.33	1761724.279	3	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-021-14	14872835.39	1761765.883	Channel 2	24.62	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	10	12	14872834.68	1761765.176	12	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-021-15	14872836.23	1761762.991	Channel 2	19.14	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 14	10	15	14872836.23	1761761.741	12	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-021-16	14872813.67	1761722.841	Channel 2	18.99	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1.5	6	14872813.17	1761722.841	6	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-021-17	14872840.6	1761754.411	Channel 2	16.00	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	6	14872840.1	1761754.411	3	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-021-18	14872823.76	1761754.01	Channel 2	12.16	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	6	14872823.26	1761754.01	4	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-021-19	14872816.37	1761728.222	Channel 2	6.60	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	7	12	14872817.37	1761728.222	6	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-021-2	14872830.4	1761740.651	Channel 2	147.63	White's XLT	Cultural Debris	Pipe	1	Shared with target 5	0.01	0	14872830.4	1761740.651	0	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-021-3	14872822.73	1761731.304	Channel 2	136.52	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	1.5	0	14872822.73	1761731.304	6	4/20/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-021-4	14872818.3	1761736.465	Channel 2	119.62	White's XLT	Cultural Debris	Pipe	1	Shared with target 7	1.5	6	14872818.3	1761735.965	4	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-021-5	14872830.39	1761738.292	Channel 2	116.97	White's XLT	Cultural Debris	Pipe	1	Shared with target 2	1.5	12	14872831.39	1761738.292	4	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-021-6	14872824.72	1761732.116	Channel 2	99.02	White's XLT	Seed	2" x 8" Pipe	1	Shared with target 3	1.5	8	14872825.19	1761731.645	6	4/20/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-021-7	14872816.61	1761737.533	Channel 2	77.06	White's XLT	Cultural Debris	Pipe	1	Pipe	2	0	14872816.61	1761737.533	4	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-021-8	14872845.39	1761726.458	Channel 2	72.55	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	2	1	14872845.31	1761726.458	2	4/20/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-021-9	14872804.24	1761728.821	Channel 2	51.63	White's XLT	Cultural Debris	Nail	1	Corner Nail		0	14872804.24	1761728.821	0	4/20/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-022-401	14874853.16	1763752.707	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	0	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-402	14874867.94	1763758.062	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	4	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-403	14874867.94	1763758.062	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	0.1	NA	-	-	3	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-404	14874880.13	1763717.391	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Debris too large to clear.		NA	-	-	0	5/5/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-022-405	14874872.81	1763724.254	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Munitions Debris	0.02	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-406	14874873.76	1763724.112	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Munitions Debris	0.01	NA	-	-	4	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-407	14874875.1	1763733.178	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Cultural Debris	0.02	NA	-	-	3	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-408	14874882.33	1763722.096	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Cultural Debris	0.01	NA	-	-	2	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-409	14874892.91	1763729.161	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Cultural Debris	0.01	NA	-	-	1	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-410	14874899.12	1763733.475	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Cultural Debris	0.01	NA	-	-	3	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-411	14874889.68	1763735.865	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Cultural Debris	0.02	NA	-	-	2	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-412	14874871.64	1763769.091	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Munitions Debris	0.01	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-413	14874864.68	1763763.568	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Cultural Debris	0.01	NA	-	-	3	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-414	14874867.97	1763763.587	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Munitions Debris	0.02	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-415	14874871.63	1763766.33	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Munitions Debris	0.1	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26OR-022-416	14874875.29	1763769.07	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Munitions Debris	0.1	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-417	14874876.58	1763772.443	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Munitions Debris	0.5	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-418	14874893.32	1763735.846	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Cultural Debris	0.02	NA	-	-	4	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-419	14874903.09	1763735.595	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Cultural Debris	0.1	NA	-	-	2	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-420	14874900.62	1763738.567	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Cultural Debris	0.02	NA	-	-	4	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-421	14874893.37	1763744.127	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Cultural Debris	0.1	NA	-	-	1	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-422	14874893.34	1763738.607	Mag & Dig	Analog	White's XLT	Munitions Debris	Catridge	1	37mm csrtridge caseing, fired, no hazard	0.5	NA	-	-	0	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-423	14874893.38	1763746.888	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	1	NA	-	-	3	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-424	14874897.01	1763744.111	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	1	NA	-	-	1	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-425	14874910.35	1763742.88	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-426	14874907.95	1763746.813	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	0	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-427	14874900.69	1763752.375	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	4	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-428	14874886.24	1763774.539	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-429	14874883.56	1763771.457	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-430	14874889.46	1763766.159	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	0.5	NA	-	-	2	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-431	14874872.72	1763770.919	Mag & Dig	Analog	White's XLT	UXO	Fuze	1	Base of BD Fuze with energetics present	0.5	NA	-	-	3	5/5/2012	William Sturm	Demolition/Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-432	14874907.29	1763743.249	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-433	14874910.87	1763746.682	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	2	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-434	14874904.97	1763745.409	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	0	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-435	14874906.4	1763750.999	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-436	14874908.65	1763740.793	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-437	14874906.76	1763739.312	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.02	NA	-	-	0	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-438	14874902.98	1763746.899	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	wire run from south side of grid		NA	-	-	0	5/5/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-022-439	14874897.54	1763759.902	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	2	NA	-	-	0	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-440	14874882.56	1763766.274	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	1	NA	-	-	0	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-441	14874886.16	1763757.969	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-442	14874882.46	1763746.946	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	2	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-443	14874889.73	1763744.145	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-444	14874882.46	1763746.946	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	1	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-445	14874867.91	1763752.54	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	0	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-446	14874867.94	1763758.062	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	4	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-447	14874893.42	1763755.171	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	0	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-448	14874893.41	1763752.41	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-449	14874900.71	1763755.137	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-450	14874897.01	1763744.111	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	1	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-451	14874897.05	1763752.391	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-452	14874893.41	1763752.41	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-453	14874893.37	1763744.127	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-454	14874886.1	1763746.928	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	2	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-455	14874886.03	1763733.119	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-456	14874889.7	1763738.623	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	0	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-457	14874878.76	1763735.92	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	0	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-022-458	14874878.77	1763738.682	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.1	NA	-	-	0	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-022-459	14874875.1	1763733.178	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	wire burried under boulders		NA	-	-	0	5/5/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-023-401	14874538.76	1764196.018	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	3	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-402	14874508.2	1764186.262	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	0.02	NA	-	-	2	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-023-403	14874524.16	1764190.573	Mag & Dig	Analog	White's XLT	Cultural Debris	Vehicle Part	1	Vehicle Part	0.01	NA	-	-	4	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-023-404	14874535.15	1764204.32	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	4	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-405	14874526.53	1764203.829	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Debris too large to clear.		NA	-	-	3	5/3/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-023-406	14874531.44	1764190.536	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	6	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-407	14874553.25	1764182.138	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	NA	-	-	3	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-023-408	14874549.56	1764173.873	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	4	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-409	14874545.98	1764184.936	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	2	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-410	14874535.18	1764209.843	Mag & Dig	Analog	White's XLT	Munitions Debris	Fuze	1	Piece of base fuze, fuze sheared off, no threat	0.1	NA	-	-	4	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-411	14874520.66	1764194.565	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	0.1	NA	-	-	3	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-023-412	14874534.42	1764199.371	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	3	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-413	14874531.38	1764204.958	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	6	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-414	14874549.66	1764193.201	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	3	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-415	14874549.65	1764190.44	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	3	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-416	14874542.42	1764201.522	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	6	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-417	14874542.55	1764192.5	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	1	NA	-	-	4	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-418	14874532.45	1764201.405	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	6	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-419	14874530.05	1764208.273	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.1	NA	-	-	2	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-420	14874515.07	1764192.616	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	4	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-023-421	14874509.59	1764190.645	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	4	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-422	14874545.64	1764190.521	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	3	Fragment	0.02	NA	-	-	3	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-423	14874531.44	1764190.536	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	6	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-424	14874537.55	1764200.956	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	3	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-425	14874513.18	1764179.582	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	NA	-	-	6	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-023-426	14874509.62	1764182.767	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	8	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-427	14874537.21	1764191.401	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	4	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-428	14874552.11	1764187.285	Mag & Dig	Analog	White's XLT	Munitions Debris	Casing	1	Piece of explosive ordinance outer casing	0.1	NA	-	-	4	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-429	14874545.81	1764187.522	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.02	NA	-	-	6	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-430	14874548.75	1764182.293	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	4	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-431	14874556.91	1764184.88	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	4	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-432	14874535.03	1764179.473	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	1	NA	-	-	3	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-433	14874539.27	1764162.654	Mag & Dig	Analog	White's XLT	Munitions Debris	Projectile	1	75mm projectile casing	3.5	NA	-	-	0	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-023-434	14874549.5	1764186.216	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	6	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-401	14875126.51	1764751.374	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-402	14875105.99	1764723.255	Mag & Dig	Analog	White's XLT	Munitions Debris	Casing	1	Casing	5	NA	-	-	0	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-403	14875168.53	1764724.918	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	11	Fragment	1	NA	-	-	8	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-404	14875149.83	1764747.879	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	3	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-405	14875151.83	1764747.695	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	3	Fragment	0.5	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-406	14875124.63	1764747.109	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.1	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26OR-024-407	14875160.69	1764736.776	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	2	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-408	14875153.44	1764742.336	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	3	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-409	14875149.81	1764745.116	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	2	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-410	14875160.64	1764725.732	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	4	Fragment	0.5	NA	-	-	8	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-411	14875131.64	1764753.493	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	4	Fragment	1	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-412	14875127.86	1764725.903	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	3	Fragment	2	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-413	14875138.91	1764750.694	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.5	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-414	14875119.95	1764739.949	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-415	14875136.01	1764758.308	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.1	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-416	14875164.32	1764733.996	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	4	Fragment	2.5	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-417	14875167.94	1764728.455	Mag & Dig	Analog	White's XLT	Munitions Debris	Mortar	1	Mortar body	5	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-418	14875127.36	1764746.024	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	4	Fragment	0.5	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-419	14875146.11	1764734.09	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	3	Fragment	1.5	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-420	14875138.9	1764747.933	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	4	Fragment	2	NA	-	-	8	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-421	14875153.34	1764723.011	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	4	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-422	14875138.86	1764739.65	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.5	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-423	14875131.54	1764743.492	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	3	Fragment	1	NA	-	-	8	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-424	14875160.66	1764731.257	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	3	Fragment	1.5	NA	-	-	8	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-426	14875142.5	1764739.634	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.1	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-427	14875135.16	1764728.624	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	3	Fragment	0.5	NA	-	-	8	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-428	14875112.71	1764733.732	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	4	Fragment	1	NA	-	-	12	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-429	14875142.42	1764725.828	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.1	NA	-	-	8	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-430	14875142.44	1764728.589	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.1	NA	-	-	8	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-431	14875114.32	1764736.902	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	3	Fragment	0.1	NA	-	-	8	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-432	14875171.58	1764728.437	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	12.5	NA	-	-	15	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-433	14875122.37	1764745.503	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	9	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-434	14875126.34	1764737.663	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.02	NA	-	-	8	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-435	14875131.61	1764747.973	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	1.5	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-436	14875138.84	1764736.889	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	8	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-437	14875157.36	1764706.846	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	4	NA	-	-	9	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-438	14875116.78	1764738.377	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	4	Fragment	0.1	NA	-	-	9	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-439	14875109.29	1764731.623	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-440	14875110.01	1764722.922	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-441	14875142.47	1764734.109	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.1	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-442	14875142.34	1764709.259	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-443	14875149.7	1764723.03	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	10	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-444	14875156.91	1764709.184	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	3	Fragment	0.5	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-445	14875127.89	1764731.423	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.5	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-446	14875142.35	1764712.023	Mag & Dig	Analog	White's XLT	UXO	Projectile	1	High Explosive, 37mm, Projectile	0.5	NA	-	-	3	41031.59306	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-447	14875105.97	1764717.73	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.1	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-448	14875142.4	1764720.303	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.5	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-449	14875113.29	1764725.976	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-450	14875116.89	1764717.676	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.1	NA	-	-	8	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-451	14875145.95	1764703.718	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	1	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-452	14875142.3	1764700.979	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	1.5	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-453	14875138.78	1764725.844	Mag & Dig	Analog	White's XLT	Munitions Debris	Projectile	1	6" Test Slug	105	NA	-	-	3	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-454	14875138.67	1764703.758	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-455	14875131.43	1764712.076	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.1	NA	-	-	1	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-456	14875153.3	1764714.725	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	2	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-457	14875113.28	1764723.217	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	1	NA	-	-	8	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-458	14875124.16	1764714.878	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	12	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-459	14875105.39	1764727.306	Mag & Dig	Analog	White's XLT	UXO	Projectile	1	1pdr, 37mm Blind Load and Plugged (BLP)	1.5	NA	-	-	6	5/2/2012	Jan Lutz	Demolition/Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-460	14875118.26	1764709.355	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	8	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-461	14875109.08	1764726.318	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	3	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-462	14875109.66	1764728.755	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	2	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-463	14875120.58	1764725.941	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	2.5	NA	-	-	1	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-464	14875153.13	1764703.745	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	1	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-465	14875146.01	1764714.765	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	8	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-466	14875127.35	1764701.807	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	3	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-467	14875124.16	1764714.878	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-468	14875124.16	1764714.878	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	2	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-469	14875146	1764712.004	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-470	14875149.68	1764720.269	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	3	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-471	14875130.29	1764757.241	Mag & Dig	Analog	White's XLT	Munitions Debris	Casing	1	4" Stokes	5	NA	-	-	1	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-472	14875149.67	1764717.505	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	2	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-473	14875153.25	1764706.444	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.1	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-474	14875142.35	1764712.023	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.1	NA	-	-	3	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-475	14875138.76	1764720.322	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	1	NA	-	-	3	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-476	14875124.24	1764731.442	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	3	Fragment	1.5	NA	-	-	2	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-477	14875120.46	1764703.849	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.5	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-478	14875131.39	1764703.796	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	1	NA	-	-	2	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-479	14875113.29	1764725.976	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	3	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-480	14875116.01	1764708.914	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Fuzed Practice, 3" MK I (Stokes), Body	7	NA	-	-	2	5/2/2012	Jan Lutz	Demolition/Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-481	14875128	1764753.514	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	1	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-482	14875153.41	1764736.816	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-483	14875153.4	1764734.055	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.1	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-484	14875138.84	1764736.889	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-485	14875138.87	1764742.414	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-486	14875149.78	1764739.596	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	12	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-487	14875138.69	1764706.517	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	9	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-488	14875138.67	1764703.758	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-489	14875142.35	1764712.023	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-490	14875127.79	1764712.098	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	3	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-491	14875131.44	1764714.837	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26OR-024-492	14875138.64	1764698.233	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	8	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-493	14875112.72	1764717.864	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	1	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-494	14875133.22	1764695.255	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	1	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-495	14875138.78	1764725.844	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-496	14875124.3	1764742.489	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	3	Fragment	1	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-497	14875127.8	1764714.856	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	1	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-498	14875124.24	1764731.442	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	2	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-499	14875131.39	1764703.796	Mag & Dig	Analog	White's XLT	Munitions Debris	Fuze	1	Fuze, Functioned	0.1	NA	-	-	1	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-500	14875124.26	1764734.203	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	1	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-501	14875118.05	1764740.547	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	2	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-502	14875131.44	1764714.837	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	3	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-503	14875116.98	1764734.243	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.5	NA	-	-	8	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-504	14875135.03	1764703.777	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-505	14875142.25	1764692.693	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	1	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-506	14875149.61	1764706.463	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-507	14875160.65	1764728.496	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	1	NA	-	-	3	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-508	14875171.56	1764725.675	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	1	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-509	14875161.78	1764739.554	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	3	Fragment	1.5	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-510	14875113.28	1764723.217	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	2	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-511	14875109.59	1764714.95	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-512	14875116.89	1764717.676	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	1	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-513	14875113.07	1764730.765	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.5	NA	-	-	3	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-514	14875116.94	1764728.721	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-515	14875102.35	1764723.271	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-516	14875110.03	1764718.882	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	3	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-517	14875131.5	1764725.882	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-518	14875131.5	1764725.882	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	1	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-519	14875124.35	1764750.769	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	3	Fragment	0.5	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-520	14875135.27	1764750.713	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	3	Fragment	1	NA	-	-	8	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-521	14875127.84	1764723.142	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.5	NA	-	-	8	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-522	14875135.23	1764742.43	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	1	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-523	14875160.6	1764717.451	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	1.5	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-524	14875157.02	1764731.275	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	3	Fragment	0.5	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-525	14875149.75	1764734.074	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	2	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-526	14875160.6	1764717.451	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	1	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-527	14875160.62	1764722.971	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	1	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-528	14875164.33	1764736.757	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	3	Fragment	2.5	NA	-	-	8	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-529	14875146.1	1764731.329	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.5	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-530	14875146.17	1764745.134	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-531	14875142.46	1764731.348	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	1	NA	-	-	8	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-532	14875153.43	1764739.575	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	3	Fragment	0.02	NA	-	-	9	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-533	14875167.98	1764736.741	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	4	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-534	14875153.38	1764731.294	Mag & Dig	Analog	White's XLT	UXO	Projectile	1	1pdr, 37mm Blind Load and Plugged (BLP)	1	NA	-	-	6	5/3/2012	William Sturm	Demolition/Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-535	14875149.74	1764731.31	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	3	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-536	14875116.87	1764714.915	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	2	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-537	14875149.79	1764742.355	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Practice, 3" MK I (Stokes), Body	3.5	NA	-	-	4	5/3/2012	William Sturm	Demolition/Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-538	14875146.11	1764734.09	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.1	NA	-	-	6	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-539	14875127.86	1764725.903	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	3	Fragment	0.5	NA	-	-	4	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-540	14875153.37	1764728.53	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.5	NA	-	-	8	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-541	14875153.34	1764723.011	Mag & Dig	Analog	White's XLT	UXO	Projectile	1	Fuzed 75mm Practice Projectile	7	NA	-	-	1	5/3/2012	William Sturm	Demolition/Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-024-542	14875164.28	1764725.716	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	2	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-401	14875508.18	1765205.083	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	0	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-402	14875519.91	1765179.465	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-403	14875498.04	1765207.664	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Debris too large to clear.		NA	-	-	4	5/5/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-025-404	14875496.38	1765203.94	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	1	NA	-	-	8	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-405	14875490.85	1765196.182	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	8	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-406	14875476.19	1765176.93	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.5	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-407	14875491.06	1765191.465	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	0.5	NA	-	-	4	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-025-408	14875483.52	1765185.175	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	4	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-409	14875490.9	1765204.465	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-410	14875476.21	1765182.452	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-411	14875484.74	1765189.419	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-412	14875523.52	1765166.121	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-413	14875512.57	1765168.459	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-414	14875508.68	1765147.908	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-415	14875501.72	1765185.081	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	1	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-416	14875497.93	1765154.729	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-417	14875512.58	1765171.222	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.25	NA	-	-	4	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-418	14875525.4	1765169.165	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	2nd barbed wire plotting site		NA	-	-	4	5/5/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-025-419	14875505.14	1765140.886	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	4	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-420	14875500.13	1765162.738	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-421	14875500.33	1765148.736	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire		NA	-	-	0	5/5/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-025-422	14875497.32	1765159.188	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	4	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-423	14875497.52	1765150.542	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-424	14875500.95	1765157.836	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-425	14875497.88	1765146.446	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment		NA	-	-	4	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-426	14875501.55	1765151.949	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	pieces of barbed wire from fence line	0.02	NA	-	-	0	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-025-427	14875511.01	1765150.456	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	0.02	NA	-	-	0	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-025-428	14875519.8	1765160.138	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	0.01	NA	-	-	0	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-025-429	14875508.88	1765160.197	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	0.01	NA	-	-	0	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-025-430	14875508.96	1765176.763	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	0.01	NA	-	-	0	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-025-431	14875516.73	1765194.477	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	large piece of a projo base plate	8	NA	-	-	4	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-432	14875487.18	1765190.679	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	4	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-433	14875479.89	1765186.29	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	8	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26OR-025-434	14875484.47	1765179.927	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	6	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-435	14875495.04	1765193.59	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	0.1	NA	-	-	4	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-436	14875476.19	1765176.93	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-437	14875490.87	1765198.946	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	4	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-438	14875487.43	1765183.043	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	8	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-439	14875485.93	1765174.061	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-440	14875480.78	1765175.907	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	4	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-441	14875486.07	1765171.045	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-442	14875480.2	1765181.062	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-443	14875483.52	1765185.175	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-444	14875489.24	1765166.87	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-445	14875482.22	1765170.545	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-446	14875490.79	1765182.38	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-447	14875498.14	1765196.147	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-448	14875498.08	1765185.103	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	1	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-449	14875487.17	1765187.92	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-450	14875489.08	1765202.216	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	1	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-451	14875509.06	1765196.088	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-452	14875504.03	1765210.51	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-453	14875512.61	1765176.742	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-454	14875482.13	1765189.399	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-455	14875498.13	1765193.386	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	6	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-456	14875487.61	1765194.962	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-457	14875490.79	1765182.38	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-458	14875498.05	1765179.578	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	8	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-459	14875487.04	1765163.071	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-460	14875490.76	1765176.857	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-461	14875487.1	1765177.923	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-462	14875494.3	1765153.955	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	3	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-463	14875493.73	1765163.81	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	1	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-464	14875485.2	1765167.068	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	1	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-465	14875490.83	1765161.202	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-466	14875492.28	1765157.516	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	4	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-467	14875494.37	1765171.317	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	2	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-468	14875490.73	1765171.333	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	1	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-469	14875498.04	1765176.82	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	1	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-025-470	14875523.53	1765176.685	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	4	5/5/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-026-401	14876710.2	1765339.128	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	1.5	NA	-	-	2	5/10/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-026-402	14876697.18	1765347.321	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	2	Nail	0.01	NA	-	-	3	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-026-403	14876671.72	1765352.974	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	1	NA	-	-	4	5/10/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-026-404	14876682.74	1765372.247	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	0	5/10/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-026-405	14876686.41	1765377.75	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	a piece of armor plating from target	4	NA	-	-	0	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-026-406	14876693.41	1765322.494	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	2 tine fork, proable machine part	0.1	NA	-	-	2	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-026-407	14876708.02	1765330.699	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-026-408	14876671.62	1765333.648	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	1	NA	-	-	4	5/10/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-026-409	14876697.04	1765319.714	Mag & Dig	Analog	White's XLT	Cultural Debris	Other Archaeological Item	1	Knife	0.1	NA	-	-	2	5/10/2012	William Sturm	Transferred to PTA Archaeologist
1926 Explosion Radius	26OR-026-410	14876678.83	1765319.806	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	4	5/10/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-026-411	14876678.9	1765333.61	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	3	5/10/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-026-412	14876693.54	1765347.342	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	4	5/10/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-027-401	14876076.32	1765629.343	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	6	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-027-402	14876079.34	1765623.038	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-027-403	14876068.42	1765604.593	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	3	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-027-404	14876054.17	1765587.705	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	3	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-027-405	14876061.13	1765601.872	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-027-406	14876096.63	1765586.265	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	3	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-027-407	14876084.7	1765579.96	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	2	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-027-408	14876086.53	1765585.174	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	3	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-027-409	14876086.68	1765612.784	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-027-410	14876084.55	1765574.576	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	2	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-027-411	14876080.65	1765572.598	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	2	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-027-412	14876071.93	1765576.967	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	4	5/2/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-028-401	14876079.32	1765814.199	Mag & Dig	Analog	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		NA	-	-	0	5/10/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-028-402	14876069.49	1765808.908	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	0	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-028-403	14876076.71	1765797.823	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	0	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-028-404	14876065.79	1765797.88	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	banding	0.02	NA	-	-	0	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-028-405	14876065.7	1765781.314	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	banding	0.1	NA	-	-	0	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-028-406	14876062	1765770.289	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	banding	1	NA	-	-	0	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-028-407	14876058.42	1765781.355	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	banding	0.01	NA	-	-	0	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-028-408	14876030.6	1765777.937	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	shovel remains, head and handle parts	2	NA	-	-	6	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-028-409	14876032.95	1765787.006	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	NA	-	-	6	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-028-410	14876058.36	1765770.311	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	2	NA	-	-	4	5/10/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-028-411	14876058.35	1765767.547	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	1	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-028-412	14876047.4	1765764.846	Mag & Dig	Analog	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		NA	-	-	0	5/10/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-028-413	14876022.1	1765800.871	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	24 in long 1 in. dia. steel rod	5.5	NA	-	-	1	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-028-414	14876027.64	1765804.401	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	flourescent light bulb ends 3 ea.	0.01	NA	-	-	1	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-028-415	14876040.37	1765811.82	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	5/10/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-028-416	14876058.45	1765786.877	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.02	NA	-	-	3	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-028-417	14876070.3	1765789.259	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	2	NA	-	-	4	5/10/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-028-418	14876036.52	1765773.183	Mag & Dig	Analog	White's XLT	Cultural Debris	2" x 8" Pipe	1	2" x 8" Pipe	2	NA	-	-	6	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-028-419	14876050.42	1765822.354	Mag & Dig	Analog	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		NA	-	-	0	5/10/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-028-420	14876020.49	1765785.437	Mag & Dig	Analog	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail	0	NA	-	-	0	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-029-401	14875147.6	1766967.299	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	4	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-029-402	14875150.97	1767006.095	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	6	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-029-403	14875145.81	1767016.333	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	3	5/3/2012	William Sturm	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26OR-029-404	14875135.66	1767013.23	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	1	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-029-405	14875143.43	1767020.347	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	3	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-029-406	14875161.43	1766981.593	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	0.02	NA	-	-	4	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-029-407	14875137.32	1767015.668	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	3	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-029-408	14875123.61	1767007.586	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	1	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-029-409	14875118.46	1767007.257	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	0	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-029-410	14875143.24	1766984.45	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	4	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-029-411	14875128.77	1767003.857	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	0	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-029-412	14875157.85	1766992.659	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	2	Wire	0.02	NA	-	-	1	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-029-413	14875156.39	1766970.186	Mag & Dig	Analog	White's XLT	Cultural Debris	2" x 8" Pipe	1	2" x 8" Pipe	0.5	NA	-	-	4	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-029-414	14875138.64	1767017.473	Mag & Dig	Analog	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail	0.01	NA	-	-	0	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-029-415	14875154.27	1767003.72	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	0	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-029-416	14875161.17	1766989.4	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	0	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-029-417	14875132.44	1767009.357	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	0	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-029-418	14875146.91	1766989.956	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	1	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-029-419	14875139.62	1766989.991	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	1	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-030-401	14874979.56	1767593.257	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	Small Arms Blank	0.01	NA	-	-	0	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-030-402	14875012.64	1767594.954	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	Small Arms Blank	0.01	NA	-	-	1	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-030-403	14875017	1767590.58	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/18/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-030-404	14874977.56	1767614.871	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	2	4/18/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-030-405	14874968.81	1767605.465	Mag & Dig	Analog	White's XLT	Small Arms	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	3	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-030-406	14874968.81	1767605.465	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-030-407	14874968.81	1767605.465	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	7.62 Blank and One 45 Caliber Slug	0.01	NA	-	-	2	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-030-408	14874997.09	1767605.244	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	7.62 Blank	0.01	NA	-	-	0	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-030-409	14874980.39	1767628.562	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-031-1	14874970.87	1766832.83	Channel 2	109.26	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	2	4	14874970.87	1766832.497	6	4/19/2012	Gary Ingram	Retained by Weston
1926 Explosion Radius	26OR-031-2	14874970.39	1766834.78	Channel 2	95.93	White's XLT	Seed	2" x 8" Pipe	1	Shared with target 1	2	4	14874970.39	1766834.447	6	4/19/2012	Gary Ingram	Retained by Weston
1926 Explosion Radius	26OR-031-3	14874971.88	1766869.72	Channel 2	55.16	White's XLT	Seed	Grid Corner Nail	1	Survey Nail		0	14874971.88	1766869.72	0	4/19/2012	Gary Ingram	Left in place
1926 Explosion Radius	26OR-031-4	14874936.02	1766835.48	Channel 2	44.44	White's XLT	Seed	Grid Corner Nail	1	Survey Nail		0	14874936.02	1766835.48	0	4/19/2012	Gary Ingram	Left in place
1926 Explosion Radius	26OR-031-5	14874970.45	1766799.27	Channel 2	42.14	White's XLT	Seed	Grid Corner Nail	1	Survey Nail		0	14874970.45	1766799.27	0	4/19/2012	Gary Ingram	Left in place
1926 Explosion Radius	26OR-031-6	14874971.57	1766830.72	Channel 2	29.31	White's XLT	Cultural Debris	Other	1	Hot Rocks Cleared from Hole		4	14874971.57	1766831.053	4	4/19/2012	Gary Ingram	Transferred to PTA
1926 Explosion Radius	26OR-031-7	14874952.43	1766845.63	Channel 2	14.00	White's XLT	Munitions Debris	Frag	1	Fragment	2	6	14874952.08	1766845.984	8	4/19/2012	Gary Ingram	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-031-8	14875005.99	1766833.18	Channel 2	9.57	White's XLT	Seed	Grid Corner Nail	1	Survey Nail		0	14875005.99	1766833.18	0	4/19/2012	Gary Ingram	Left in place
1926 Explosion Radius	26OR-032-401	14874559.44	1766783.18	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	1	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-032-402	14874539.71	1766768.84	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	3	5/3/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-032-403	14874515.85	1766805.501	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	NA	-	-	1	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-032-404	14874530.38	1766797.139	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	NA	-	-	1	5/3/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-033-401	14874499.73	1767303.017	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	Blank 5.56	0.01	NA	-	-	1	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-033-402	14874511.47	1767288.188	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	2	Blank 5.56	0.01	NA	-	-	0	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-033-403	14874473.07	1767290.891	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	4	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-033-404	14874489.25	1767287.476	Mag & Dig	Analog	White's XLT	Cultural Debris	Rebar	1	Rebar	3	NA	-	-	0	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-033-405	14874513.27	1767285.691	Mag & Dig	Analog	White's XLT	Seed	Grid Corner Nail	1	Suvey Nail		NA	-	-	0	4/18/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-033-406	14874519.44	1767280.412	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	5.56 Blanks	0.01	NA	-	-	0	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-033-407	14874489.22	1767281.675	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	5.56 Blank	0.01	NA	-	-	3	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-033-408	14874484.83	1767277.835	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	3	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-033-409	14874509.88	1767264.552	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	2	7.62 Blanks	0.01	NA	-	-	2	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-033-410	14874503.56	1767307.003	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	2	NA	-	-	2	4/18/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-033-411	14874508.53	1767282.126	Mag & Dig	Analog	White's XLT	Geology	Hot rock	2	Hot rock		NA	-	-	3	4/18/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-033-412	14874506	1767287.112	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	1	4/18/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-033-413	14874510.75	1767299.905	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/18/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-034-401	14874337.81	1767231.94	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/18/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-034-402	14874353.05	1767250.035	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	1.5	NA	-	-	4	4/18/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-034-403	14874341.53	1767252.928	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/18/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-034-404	14874358.25	1767240.393	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	10	NA	-	-	4	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-034-405	14874356.78	1767232.44	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/18/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-035-1	14874772.92	1766737.233	Channel 2	106.41	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	2	0	14874772.92	1766737.233	6	4/19/2012	Gary Ingram	Retained by Weston
1926 Explosion Radius	26OR-035-2	14874790.84	1766772.259	Channel 2	58.38	White's XLT	Seed	Grid Corner Nail	1	Survey Nail		0	14874790.84	1766772.259	0	4/19/2012	Gary Ingram	Left in place
1926 Explosion Radius	26OR-035-3	14874777.7	1766703.095	Channel 2	46.05	White's XLT	Seed	Grid Corner Nail	1	Survey Nail		0	14874777.7	1766703.095	0	4/19/2012	Gary Ingram	Left in place
1926 Explosion Radius	26OR-035-4	14874818.42	1766730.567	Channel 2	22.14	White's XLT	Seed	Grid Corner Nail	1	Survey Nail		0	14874818.42	1766730.567	0	4/19/2012	Gary Ingram	Left in place
1926 Explosion Radius	26OR-035-401	14874777.23	1766711.356	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Survey Nail		NA	-	-	0	4/19/2012	Jan Lutz	Left in place
1926 Explosion Radius	26OR-035-5	14874749.83	1766744.583	Channel 2	12.49	White's XLT	Seed	Grid Corner Nail	1	Survey Nail		0	14874749.83	1766744.583	0	4/19/2012	Gary Ingram	Left in place
1926 Explosion Radius	26OR-035-6	14874802.42	1766746.306	Channel 2	9.75	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	6	14874802.77	1766746.66	6	4/19/2012	Gary Ingram	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-035-7	14874771.72	1766756.953	Channel 2	9.11	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0	5	14874772.14	1766756.953	6	4/19/2012	Gary Ingram	Transferred to PTA
1926 Explosion Radius	26OR-035-8	14874771.42	1766759.165	Channel 2	5.17	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0	12	14874772.42	1766759.165	6	4/19/2012	Gary Ingram	Transferred to PTA
1926 Explosion Radius	26OR-036-1	14874237.17	1767408.578	Channel 2	221.18	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 2 and 12	2.5	12	14874236.46	1767407.871	0	4/21/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-036-10	14874201.89	1767400.895	Channel 2	19.76	White's XLT	Cultural Debris	Other	1	Other	0.5	12	14874202.6	1767400.188	3	4/21/2012	Dan Hains	Transferred to PTA Archaeologist
1926 Explosion Radius	26OR-036-11	14874203.38	1767402.905	Channel 2	17.32	White's XLT	Geology	Hot rock	1	Hot rock		0	14874203.38	1767402.905	0	4/21/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-036-12	14874238.23	1767411.285	Channel 2	15.14	White's XLT	Cultural Debris	Metal Scrap	1	Shared with targets 1 and 2	2.5	12	14874237.52	1767410.578	0	4/21/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-036-13	14874235.52	1767442.011	Channel 2	10.07	White's XLT	Geology	Hot rock	1	Hot rock		0	14874235.52	1767442.011	0	4/21/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-036-14	14874236.66	1767438.179	Channel 2	9.91	White's XLT	Geology	Hot rock	1	Hot rock		0	14874236.66	1767438.179	0	4/21/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-036-15	14874223.92	1767397.047	Channel 2	9.00	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	12	14874223.92	1767396.047	2	4/21/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-036-16	14874203.53	1767388.662	Channel 2	8.98	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14874203.53	1767388.662	0	4/21/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-036-17	14874232.37	1767396.704	Channel 2	7.46	White's XLT	Geology	Hot rock	1	Hot rock		0	14874232.37	1767396.704	0	4/21/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-036-18	14874226.01	1767438.904	Channel 2	7.05	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	12	14874226.01	1767439.904	4	4/21/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-036-19	14874207.14	1767425.19	Channel 2	4.77	White's XLT	Cultural Debris	Horseshoe	1	Horseshoe	0.1	18	14874206.08	1767424.129	4	4/21/2012	Dan Hains	Transferred to PTA Archaeologist
1926 Explosion Radius	26OR-036-2	14874234.46	1767410.64	Channel 2	148.52	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 1 and 12	2.5	6	14874234.81	1767410.994	0	4/21/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-036-3	14874200.44	1767412.724	Channel 2	121.97	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.5	0	14874200.44	1767412.724	6	4/21/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-036-4	14874251.38	1767402.851	Channel 2	71.42	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14874251.38	1767402.851	0	4/21/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-036-5	14874202.81	1767411.838	Channel 2	61.46	White's XLT	Cultural Debris	Wire	1	Wire	0.02	24	14874204.22	1767410.424	6	4/21/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-036-6	14874198.09	1767413.724	Channel 2	58.25	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.5	24	14874199.5	1767412.31	6	4/21/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-036-7	14874189.33	1767435.953	Channel 2	50.44	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14874189.33	1767435.953	0	4/21/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-036-8	14874237.43	1767449.588	Channel 2	37.63	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14874237.43	1767449.588	0	4/21/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-036-9	14874200.47	1767426.564	Channel 2	24.57	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14874200.47	1767426.564	4	4/21/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-037-1	14874010.04	1767348.325	Channel 2	142.48	White's XLT	Cultural Debris	Rebar	1	Rebar	1	0	14874010.04	1767348.325	0	4/21/2012	Dan Hains	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26OR-037-10	14874007.22	1767330.94	Channel 2	14.14	White's XLT	Cultural Debris	Nail	1	Nail	0.1	12	14874006.22	1767330.94	0	4/21/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-037-11	14874013.99	1767303.743	Channel 2	12.30	White's XLT	Cultural Debris	Wire	1	Wire	0.01	15	14874013.11	1767302.859	0	4/21/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-037-12	14874061.72	1767311.655	Channel 2	11.32	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14874061.72	1767311.655	0	4/21/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-037-2	14874012.43	1767346.931	Channel 2	114.34	White's XLT	Cultural Debris	Rebar	1	Shared with target 1	1	0	14874012.43	1767346.931	0	4/21/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-037-3	14874034.59	1767319.623	Channel 2	101.38	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.5	12	14874033.88	1767320.33	4	4/21/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-037-4	14874032.43	1767321.631	Channel 2	73.57	White's XLT	Seed	2" x 8" Pipe	1	Shared with target 3	0.5	12	14874033.14	1767320.924	4	4/21/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-037-5-1	14874013.82	1767297.47	Channel 2	58.69	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14874013.82	1767297.47	0	4/21/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-037-5-2	14874013.82	1767297.47	Channel 2	58.69	White's XLT	Cultural Debris	Wire	1	Wire	0.01	12	14874014.53	1767298.177	0	4/21/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-037-6	14874031.64	1767311.068	Channel 2	49.94	White's XLT	Cultural Debris	Wire	1	Wire	0.1	12	14874030.64	1767311.068	2	4/21/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-037-7	14874045.33	1767358.871	Channel 2	48.30	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14874045.33	1767358.871	0	4/21/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-037-8	14874059.95	1767317.408	Channel 2	30.22	White's XLT	Cultural Debris	Wire	1	Wire	0	14	14874061.12	1767317.408	0	4/21/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-037-9	14874033.46	1767313.697	Channel 2	26.07	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	12	14874033.46	1767314.697	3	4/21/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-1	14873867.25	1767660.196	Channel 2	576.08	White's XLT	Cultural Debris	Nail	1	Nail	0.01	0	14873867.25	1767660.196	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-10	14873857.4	1767659.904	Channel 2	99.27	White's XLT	Cultural Debris	Nail	1	Nail	0.01	6	14873857.9	1767659.904	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-11	14873844.77	1767636.184	Channel 2	93.38	White's XLT	Seed	2" x 8" Pipe	1	Shared with target 9	0.5	4	14873845.01	1767636.42	6	4/29/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-038-12	14873854.76	1767658.589	Channel 2	77.06	White's XLT	Cultural Debris	Rebar	1	7 ft rebar	2	6	14873854.76	1767659.089	1	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-13	14873845.64	1767633.818	Channel 2	60.18	White's XLT	Small Arms	Blank Ammunition	1	5.56 mm	0.01	6	14873845.64	1767634.318	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-14	14873839.72	1767656.968	Channel 2	57.19	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	4	14873839.72	1767657.301	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-15	14873840.31	1767655.029	Channel 2	56.95	White's XLT	Cultural Debris	Nail	1	Nail	0.01	4	14873839.98	1767655.029	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-16	14873819.2	1767617.965	Channel 2	49.68	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14873819.2	1767617.965	0	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-038-17	14873833.23	1767654.244	Channel 2	48.86	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	8	14873833.9	1767654.244	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-18	14873840.26	1767646.989	Channel 2	42.39	White's XLT	Cultural Debris	Slag	1	Slag	0.01	24	14873840.26	1767644.989	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-19	14873824.2	1767649.352	Channel 2	34.86	White's XLT	Small Arms	7.62mm	1	7.62mm	1	4	14873824.53	1767649.352	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-2	14873857.42	1767661.962	Channel 2	274.49	White's XLT	Cultural Debris	Rebar	1	Shared with target 12	2	4	14873857.42	1767662.295	1	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-20-1	14873836.7	1767655.475	Channel 2	33.98	White's XLT	Cultural Debris	Metal Scrap	1	spike	0.5	5	14873836.41	1767655.18	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-20-2	14873836.7	1767655.475	Channel 2	33.98	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	4	14873836.46	1767655.239	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-21	14873858.39	1767621.273	Channel 2	26.72	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	12	14873857.68	1767620.566	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-22-1	14873864.32	1767616.178	Channel 2	26.13	White's XLT	Small Arms	Blank Ammunition	1	Blank Ammunition	0.01	20	14873864.32	1767614.511	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-22-2	14873864.32	1767616.178	Channel 2	26.13	White's XLT	Cultural Debris	Metal Scrap	1	metal pin	0.5	12	14873865.03	1767616.885	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-23	14873855.16	1767623.867	Channel 2	25.26	White's XLT	Geology	Hot rock	1	Hot rock		4	14873855.49	1767623.867	3	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-038-24	14873847.22	1767659.721	Channel 2	23.53	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	4	14873847.22	1767659.388	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-25	14873825.18	1767645.496	Channel 2	21.86	White's XLT	Cultural Debris	Nail	2	Nail	0.01	12	14873824.18	1767645.496	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-26	14873852.31	1767622.333	Channel 2	21.13	White's XLT	Cultural Debris	Nail	2	Nail	0.01	0	14873852.31	1767622.333	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-27	14873826.7	1767648.915	Channel 2	21.05	White's XLT	Munitions Debris	Frag	1	Fragment		4	14873827.03	1767648.915	3	4/29/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-038-28	14873826.39	1767647.132	Channel 2	21.02	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	2	14873826.56	1767647.132	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-29	14873844.57	1767654.102	Channel 2	20.89	White's XLT	Cultural Debris	Nail	1	rail road spike	0.01	4	14873844.24	1767654.102	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-3	14873838.34	1767651.129	Channel 2	249.39	White's XLT	Cultural Debris	Iron Scrap	1	2 in x 12 in		3	14873838.52	1767650.952	8	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-30	14873829.78	1767648.562	Channel 2	17.81	White's XLT	Cultural Debris	Wire	1	Wire	0.01	2	14873829.66	1767648.68	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-31	14873876.08	1767658.748	Channel 2	17.16	White's XLT	Cultural Debris	Nail	1	Nail	0.01	24	14873874.08	1767658.748	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-32	14873859.06	1767653.597	Channel 2	13.26	White's XLT	Cultural Debris	Metal Scrap	1	can lid	0.01	12	14873858.35	1767654.304	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-33	14873867.82	1767609.519	Channel 2	12.98	White's XLT	Small Arms	Blank Ammunition	1	5.56 mm	0.01	24	14873869.23	1767610.933	1	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-34	14873854.64	1767639.172	Channel 2	12.84	White's XLT	Cultural Debris	Metal Scrap	1	rail road spike	1	12	14873855.64	1767639.172	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-35	14873852.27	1767652.76	Channel 2	12.72	White's XLT	Cultural Debris	Nail	1	Nail	0.01	4	14873851.94	1767652.76	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-36	14873870.72	1767647.513	Channel 2	11.71	White's XLT	Cultural Debris	Nail	1	Nail	0.01	12	14873871.72	1767647.513	8	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-37	14873837.69	1767665.453	Channel 2	11.50	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		4	14873837.36	1767665.453	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-38	14873830.61	1767615.976	Channel 2	9.41	White's XLT	Cultural Debris	Metal Scrap	1	soda can	0.01	6	14873830.61	1767615.476	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-39	14873864.3	1767620.242	Channel 2	9.38	White's XLT	Geology	Hot rock	1	Hot rock		0	14873864.3	1767620.242	0	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-038-4	14873870.89	1767657.988	Channel 2	226.06	White's XLT	Cultural Debris	Metal Scrap	1	Miner's pick and scrap metal	8	6	14873871.39	1767657.988	1	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-40	14873864.78	1767628.269	Channel 2	8.50	White's XLT	Cultural Debris	Slag	1	Slag		12	14873864.07	1767627.562	6	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-038-41	14873852.26	1767644.652	Channel 2	8.25	White's XLT	Cultural Debris	Metal Scrap	1	metal rack	1	12	14873851.55	1767643.945	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-42	14873853.03	1767650.78	Channel 2	8.20	White's XLT	Cultural Debris	Nail	1	Nail	0.01	4	14873853.27	1767651.016	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-43	14873848.71	1767649.32	Channel 2	7.55	White's XLT	Cultural Debris	Nail	1	Nail	0.01	24	14873847.3	1767650.734	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-44	14873832.27	1767650.157	Channel 2	7.43	White's XLT	Cultural Debris	Nail	1	and wire	0.02	6	14873831.77	1767650.157	9	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-45	14873839.18	1767663.336	Channel 2	7.38	White's XLT	Cultural Debris	Metal Scrap	1	metal tool	0.5	18	14873840.24	1767664.397	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-46	14873866	1767626.147	Channel 2	6.63	White's XLT	Cultural Debris	Slag	1	Slag		0	14873866	1767626.147	8	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-038-5	14873838.74	1767649.211	Channel 2	218.03	White's XLT	Cultural Debris	Iron Scrap	1	Shared with target 3	1	12	14873838.74	1767650.211	8	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-6	14873833.99	1767659.998	Channel 2	189.88	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	12	14873834.99	1767659.998	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-7	14873832.78	1767658.362	Channel 2	165.26	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	3	14873832.6	1767658.185	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-8	14873869.83	1767655.818	Channel 2	123.77	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	24	14873871.24	1767654.404	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-038-9	14873844.84	1767637.643	Channel 2	106.47	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.5	4	14873844.6	1767637.407	6	4/29/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-039-1	14875135.73	1768141.694	Channel 2	7033.28	White's XLT	Cultural Debris	Wire	1	guy wire goes deep		12	14875136.73	1768141.694	0	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-039-10	14875140.89	1768138.761	Channel 2	51.91	White's XLT	Cultural Debris	Wire	1	Wire	0.5	4	14875140.56	1768138.761	1	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-039-11	14875180.89	1768166.262	Channel 2	48.76	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14875180.89	1768166.262	0	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-039-12	14875142.75	1768145.351	Channel 2	48.61	White's XLT	Cultural Debris	Wire	1	Shared with target 6	0.5	12	14875142.04	1768146.058	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-039-13	14875145.81	1768114.815	Channel 2	36.60	White's XLT	Cultural Debris	Wire	1	Wire		12	14875146.81	1768114.815	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-039-14	14875192.04	1768117.533	Channel 2	28.38	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14875192.04	1768117.533	0	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-039-15	14875142.84	1768110.65	Channel 2	24.14	White's XLT	Cultural Debris	Wire	1	cable bracket	7	5	14875142.42	1768110.65	1	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-039-16	14875146.12	1768119.184	Channel 2	9.74	White's XLT	Cultural Debris	Wire	1	Wire	0.01	12	14875145.41	1768118.477	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-039-17	14875159.81	1768155.295	Channel 2	3.98	White's XLT	No Contact		1	No Contact						4/29/2012	Dan Hains	NA
1926 Explosion Radius	26OR-039-18-1	14875165.79	1768119.731	Channel 2	2.85	White's XLT	Small Arms	7.62mm	1	llinks	0.01	24	14875167.79	1768119.731	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-039-18-2	14875165.79	1768119.731	Channel 2	2.85	White's XLT	Small Arms	Blank Ammunition	1	5.56 mm	0.01	24	14875163.79	1768119.731	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-039-19	14875181.72	1768127.474	Channel 2	2.43	White's XLT	Cultural Debris	Nail	1	Nail	0.01	0	14875181.72	1768127.474	1	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-039-2	14875137.14	1768135.8	Channel 2	314.90	White's XLT	Cultural Debris	Wire	1	wire rope	0.01	3	14875136.96	1768135.977	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-039-20	14875133.52	1768151.334	Channel 2	0.00	White's XLT	Cultural Debris	Other	1	M-1 Clip	0.02	5	14875133.1	1768151.334	3	4/29/2012	Dan Hains	Transferred to PTA Archaeologist
1926 Explosion Radius	26OR-039-21	14875182.27	1768162.483	Channel 2	0.00	White's XLT	Cultural Debris	Metal Scrap	1	butt0n	0.01	24	14875182.27	1768160.483	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-039-22	14875181.38	1768166.383	Channel 2	0.00	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14875181.38	1768166.383	0	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-039-23	14875132.63	1768155.233	Channel 2	0.00	White's XLT	Cultural Debris	Bolt	1	Bolt	1.5	12	14875132.63	1768156.233	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-039-3	14875137.87	1768139.967	Channel 2	310.59	White's XLT	Cultural Debris	Wire	1	Shared with target 1		12	14875138.87	1768139.967	0	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-039-4	14875159.62	1768131.646	Channel 2	94.02	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe		2	14875159.45	1768131.646	4	4/29/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-039-5	14875136.95	1768143.859	Channel 2	83.33	White's XLT	Cultural Debris	Wire	1	Shared with target 1		12	14875137.95	1768143.859	0	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-039-6	14875140.32	1768147.791	Channel 2	58.90	White's XLT	Cultural Debris	Wire	1	Wire	0.5	7	14875139.91	1768147.379	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-039-7	14875143.11	1768141.319	Channel 2	58.56	White's XLT	Small Arms	Blank Ammunition	1	5.56 mm	0.01	4	14875142.87	1768141.555	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-039-8	14875139.62	1768136.757	Channel 2	57.64	White's XLT	Cultural Debris	Wire	1	wire cable	0.01	3	14875139.44	1768136.934	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-039-9	14875144.08	1768106.584	Channel 2	53.12	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14875144.08	1768106.584	0	4/29/2012	Dan Hains	Left in place

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26OR-040-1	14874485.02	1768252.894	Channel 2	3688.22	White's XLT	Cultural Debris	Metal Scrap	1	sheet metal	0.5	2	14874485.02	1768253.061	1	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-10	14874470.68	1768227.896	Channel 2	117.50	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.5	10	14874470.68	1768227.063	6	4/29/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-040-11	14874457.84	1768229.173	Channel 2	95.02	White's XLT	Cultural Debris	Nail	1	Nail	0.1	18	14874456.78	1768230.234	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-12	14874481.63	1768204.49	Channel 2	92.13	White's XLT	Cultural Debris	Foil	1	Foil	0.01	8	14874480.96	1768204.49	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-13	14874466.18	1768243.548	Channel 2	87.08	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	5	14874466.47	1768243.843	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-14	14874489.97	1768254.908	Channel 2	86.33	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	3	14874489.97	1768255.158	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-15	14874498.83	1768258.422	Channel 2	70.13	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14874498.83	1768258.422	0	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-040-16	14874483.58	1768233.191	Channel 2	65.10	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 61	0.5	24	14874483.58	1768235.191	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-17	14874478.65	1768250.491	Channel 2	59.42	White's XLT	Cultural Debris	Metal Scrap	1	plumbing fixtures	20	12	14874477.65	1768250.491	12	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-18	14874475.49	1768242.736	Channel 2	56.37	White's XLT	Cultural Debris	Nail	1	Nail	0.01	8	14874475.49	1768242.069	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-19	14874455.32	1768232.693	Channel 2	53.77	White's XLT	Cultural Debris	Nail	3	Nail	1	12	14874456.03	1768231.986	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-2	14874503.63	1768210.948	Channel 2	1158.16	White's XLT	Cultural Debris	Metal Scrap	1	bucker with handle	9	4	14874503.39	1768211.184	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-20	14874477.16	1768245.643	Channel 2	50.02	White's XLT	Cultural Debris	Nail	1	Nail	0.01	12	14874476.16	1768245.643	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-21	14874486.69	1768214.923	Channel 2	49.60	White's XLT	Cultural Debris	Metal Scrap	1	metal rod	0.5	6	14874486.34	1768215.277	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-22	14874485.38	1768229.591	Channel 2	46.58	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 38	0.5	8	14874484.91	1768229.12	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-23	14874470.9	1768193.705	Channel 2	45.26	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14874470.9	1768193.705	0	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-040-24	14874457.88	1768226.229	Channel 2	43.78	White's XLT	Cultural Debris	Nail	2	Nail	0.01	12	14874458.59	1768225.522	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-25	14874452.66	1768240.202	Channel 2	43.25	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14874452.66	1768240.202	0	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-040-26	14874466.69	1768235.135	Channel 2	37.48	White's XLT	Cultural Debris	Nail	2	Nail	0.01	8	14874466.02	1768235.135	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-27	14874478.07	1768231.014	Channel 2	35.44	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	12	14874478.07	1768230.014	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-28	14874483.1	1768250.134	Channel 2	33.74	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 1	0.5	2	14874483.1	1768250.301	1	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-29	14874459.47	1768225.902	Channel 2	33.57	White's XLT	Cultural Debris	Nail	1	Nail	0.01	12	14874460.18	1768226.609	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-3	14874489.65	1768203.167	Channel 2	535.89	White's XLT	Cultural Debris	Pipe	1	Pipe	3	4	14874489.89	1768202.931	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-30	14874486.25	1768244.926	Channel 2	30.64	White's XLT	Cultural Debris	Nail	4	Nail	0.01	18	14874487.31	1768245.987	1	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-31	14874486.68	1768231.978	Channel 2	28.82	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 38	0.5	8	14874486.21	1768232.449	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-32	14874493.68	1768252.179	Channel 2	28.16	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit	0.01	12	14874492.68	1768252.179	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-33	14874487.42	1768247.639	Channel 2	27.07	White's XLT	Cultural Debris	Nail	1	Nail	0.01	2	14874487.42	1768247.806	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-34	14874492.28	1768249.562	Channel 2	26.98	White's XLT	Cultural Debris	Nail	2	Nail	0.01	0	14874492.28	1768249.562	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-35	14874487.04	1768249.553	Channel 2	26.87	White's XLT	Cultural Debris	Nail	1	Nail	0.01	2	14874487.04	1768249.386	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-36	14874465.54	1768223.809	Channel 2	26.06	White's XLT	Cultural Debris	Nail	1	Nail	0.01	8	14874466.01	1768224.28	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-37	14874491.9	1768251.476	Channel 2	25.27	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit	0.01	12	14874492.9	1768251.476	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-38	14874487.26	1768230.518	Channel 2	25.02	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	8	14874486.79	1768230.989	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-39	14874516.67	1768211.883	Channel 2	22.96	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14874516.67	1768211.883	0	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-040-4	14874464.55	1768232.031	Channel 2	383.31	White's XLT	Cultural Debris	Nail	1	Nail	0.01	12	14874464.55	1768233.031	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-40	14874499.84	1768254.617	Channel 2	21.78	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	12	14874499.84	1768255.617	1	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-41	14874456.96	1768241.861	Channel 2	20.33	White's XLT	Cultural Debris	Metal Scrap	1	rusty can	0.1	24	14874458.37	1768240.447	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-42	14874479.65	1768197.2	Channel 2	20.33	White's XLT	Cultural Debris	Wire	1	Wire	0.02	12	14874479.65	1768196.2	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-43	14874478.82	1768240.008	Channel 2	18.91	White's XLT	Cultural Debris	Nail	1	Nail	0.01	6	14874479.17	1768240.362	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-44	14874464.37	1768221.097	Channel 2	18.43	White's XLT	Cultural Debris	Nail	2	Nail	0.01	8	14874465.04	1768221.097	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-45	14874493.44	1768230.532	Channel 2	17.25	White's XLT	Cultural Debris	Iron Scrap	1	railroad spike	0.25	2	14874493.56	1768230.65	8	5/12/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-040-46	14874466.59	1768217.845	Channel 2	16.85	White's XLT	Cultural Debris	Wire	1	Wire	0.02	12	14874465.59	1768217.845	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-47	14874464.43	1768219.057	Channel 2	15.52	White's XLT	Cultural Debris	Nail	1	Nail	0.01	12	14874465.14	1768219.764	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-48-1	14874495.62	1768252.947	Channel 2	14.82	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit	0.01	6	14874495.62	1768253.447	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-48-2	14874495.62	1768252.947	Channel 2	14.82	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit	0.01	6	14874495.62	1768252.447	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-49	14874461.94	1768220.136	Channel 2	12.86	White's XLT	Cultural Debris	Nail	1	Nail	0.01	12	14874460.94	1768220.136	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-5	14874502.26	1768216.773	Channel 2	366.32	White's XLT	Cultural Debris	Metal Scrap	1	sheet metal	0.01	4	14874501.93	1768216.773	1	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-50	14874504.67	1768222.039	Channel 2	12.03	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	4	14874505	1768222.039	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-51	14874479.67	1768225.083	Channel 2	11.89	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post	0.5	4	14874479.34	1768225.083	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-52	14874500.16	1768243.871	Channel 2	11.57	White's XLT	Cultural Debris	Nail	1	Nail	0.01	5	14874500.16	1768243.454	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-53	14874496.24	1768233.888	Channel 2	11.17	White's XLT	Cultural Debris	Metal Scrap	1	soda can	0.1	6	14874495.89	1768234.242	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-54	14874469.58	1768199.711	Channel 2	11.11	White's XLT	Cultural Debris	Nail	1	Nail	0.01	6	14874470.08	1768199.711	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-55	14874483.74	1768201.014	Channel 2	11.05	White's XLT	Cultural Debris	Wire	1	wire rope	0.5	6	14874483.24	1768201.014	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-56	14874501.4	1768226.166	Channel 2	10.12	White's XLT	Cultural Debris	Nail	4	Nail	0.01	6	14874501.4	1768225.666	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-57	14874470.7	1768217.406	Channel 2	10.10	White's XLT	Cultural Debris	Nail	1	Nail	0.01	1	14874470.7	1768217.489	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-58	14874497.57	1768236.663	Channel 2	9.84	White's XLT	Cultural Debris	Nail	2	Nail	0.01	18	14874496.07	1768236.663	12	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-59	14874500.48	1768242.124	Channel 2	9.19	White's XLT	Cultural Debris	Nail	1	Nail	0.01	2	14874500.48	1768242.291	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-6	14874464.54	1768230.155	Channel 2	232.22	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	18	14874463.04	1768230.155	8	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-60	14874502.1	1768244.64	Channel 2	8.79	White's XLT	Cultural Debris	Nail	2	Nail		2	14874502.22	1768244.758	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-61	14874481.28	1768231.906	Channel 2	8.65	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	24	14874481.28	1768229.906	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-62	14874503.19	1768240.95	Channel 2	8.60	White's XLT	Cultural Debris	Nail	2	Nail	0.01	4	14874503.43	1768240.714	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-63	14874497.91	1768232.486	Channel 2	8.46	White's XLT	Cultural Debris	Metal Scrap	1	beer can	0.01	1	14874497.97	1768232.545	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-64	14874503.05	1768236.581	Channel 2	8.02	White's XLT	Cultural Debris	Nail	2	Nail	0.01	5	14874503.05	1768236.998	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-65	14874470.06	1768219.034	Channel 2	8.00	White's XLT	Cultural Debris	Nail	1	Nail	0.01	12	14874470.06	1768218.034	1	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-66	14874468.65	1768220.724	Channel 2	7.80	White's XLT	Cultural Debris	Nail	1	Nail	0.01	5	14874468.65	1768220.307	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-67	14874506.14	1768233.493	Channel 2	7.69	White's XLT	Cultural Debris	Wire	1	Wire	0.01	5	14874505.72	1768233.493	1	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-68	14874506.4	1768235.661	Channel 2	7.67	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	5	14874506.69	1768235.366	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-69	14874470.43	1768223.612	Channel 2	7.18	White's XLT	Cultural Debris	Nail	1	spike	0.1	24	14874469.02	1768225.026	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-7	14874457.85	1768231.444	Channel 2	179.44	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	18	14874456.35	1768231.444	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-8	14874479.15	1768207.444	Channel 2	145.62	White's XLT	Cultural Debris	Wire	1	Wire	0.01	8	14874479.62	1768206.973	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-040-9	14874479.49	1768206.085	Channel 2	130.66	White's XLT	Cultural Debris	Wire	1	Wire	0.01	12	14874480.2	1768206.792	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-042-1	14874539.1	1768992.86	Channel 2	98.58	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.5	0	14874539.1	1768992.86	6	4/28/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-042-2	14874539.03	1768954.98	Channel 2	49.79	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14874539.03	1768954.98	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-042-3	14874555.39	1769023.47	Channel 2	46.95	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14874555.39	1769023.47	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-042-4	14874513.15	1768997.74	Channel 2	39.25	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14874513.15	1768997.74	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-042-5	14874581	1768980.57	Channel 2	17.64	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14874581	1768980.57	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-042-6	14874548.18	1768986.3	Channel 2	11.86	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	6	14874548.18	1768985.8	4	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-043-1	14874098.06	1768698.166	Channel 2	280.04	White's XLT	Munitions Debris	Frag	1	Shared with targets 2, 3 and 10	5	1	14874098.14	1768698.166	4	4/28/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-043-10	14874102.55	1768698.593	Channel 2	15.93	White's XLT	Munitions Debris	Frag	1	Shared with targets 1, 2 and 3	5	24	14874103.96	1768697.179	4	4/28/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-043-11	14874125.49	1768733.169	Channel 2	7.65	White's XLT	No Contact		1	No Contact						4/28/2012	Dan Hains	NA
1926 Explosion Radius	26OR-043-12	14874128.14	1768709.242	Channel 2	7.37	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	12	14874129.14	1768709.242	0	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-043-13	14874087.29	1768713.151	Channel 2	7.18	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	24	14874088.7	1768714.565	6	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-043-14	14874089.89	1768699.344	Channel 2	6.96	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	3	14874090.07	1768699.521	4	4/28/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-043-15	14874109.44	1768699.324	Channel 2	5.22	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	4	14874109.11	1768699.324	6	4/28/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-043-16	14874077.7	1768714.194	Channel 2	5.10	White's XLT	Geology	Hot rock	1	Hot rock		0	14874077.7	1768714.194	0	4/28/2012	Dan Hains	Left in place

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26OR-043-2	14874100.3	1768698.363	Channel 2	158.92	White's XLT	Munitions Debris	Frag	1	Fragment	5	11	14874100.95	1768699.011	4	4/28/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-043-3	14874098.68	1768700.501	Channel 2	96.63	White's XLT	Munitions Debris	Frag	1	Fragment	5	12	14874097.97	1768701.208	4	4/28/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-043-4	14874105.21	1768706.936	Channel 2	84.29	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.5	0	14874105.21	1768706.936	6	4/28/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-043-5	14874117.17	1768720.218	Channel 2	67.32	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2.5	0	14874117.17	1768720.218	6	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-043-6	14874080.56	1768682.322	Channel 2	42.47	White's XLT	Seed	Grid Corner Nail	1	corner nail		0	14874080.56	1768682.322	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-043-7	14874124.72	1768737.062	Channel 2	40.68	White's XLT	Seed	Grid Corner Nail	1	corner nail		0	14874124.72	1768737.062	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-043-8	14874129.28	1768687.271	Channel 2	25.72	White's XLT	Seed	Grid Corner Nail	1	corner nail		0	14874129.28	1768687.271	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-043-9	14874075.59	1768732.031	Channel 2	19.27	White's XLT	Seed	Grid Corner Nail	1	corner nail		0	14874075.59	1768732.031	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-044-401	14874546.62	1769179.997	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	7.62mm blank cartridge, fired, no hazard	0.01	NA	-	-	0	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-044-402	14874539.23	1769160.71	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	7.62mm blank cartridge, fired, no hazard	0.01	NA	-	-	4	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-044-403	14874545.22	1769154.866	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	7.62mm blank cartridge, fired, no hazard	0.01	NA	-	-	3	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-044-404	14874532.06	1769182.836	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	7.62mm blank cartridge, fired, no hazard	0.01	NA	-	-	4	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-044-405	14874535.65	1769171.774	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	6	7.62mm blank cartridge, fired, no hazard	0.02	NA	-	-	6	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-044-406	14874524.86	1769196.683	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	7.62mm blank cartridge, fired, no hazard	0.01	NA	-	-	3	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-044-407	14874539.41	1769193.844	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	4	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-044-408	14874546.68	1769191.041	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	2	7.62mm blank cartridge, fired, no hazard	0.01	NA	-	-	4	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-044-409	14874539.29	1769171.755	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	7.62mm blank cartridge, fired, no hazard	0.01	NA	-	-	3	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-044-410	14874568.47	1769179.883	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	7.62mm blank cartridge, fired, no hazard	0.01	NA	-	-	4	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-044-411	14874546.65	1769185.519	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	7.62mm blank cartridge, fired, no hazard	0.01	NA	-	-	3	5/4/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-045-1	14872909.47	1768735.64	Channel 2	194.23	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	9	14872908.94	1768735.11	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-045-10	14872925.07	1768771.126	Channel 2	40.09	White's XLT	Cultural Debris	Metal Scrap	1	pqper clip	0.01	14	14872925.07	1768772.293	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-045-11	14872898.84	1768758.232	Channel 2	23.75	White's XLT	Cultural Debris	Nail	5	Nail	0.1	18	14872900.34	1768758.232	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-045-12	14872903.93	1768760.148	Channel 2	18.22	White's XLT	No Contact		1	No Contact						4/28/2012	Dan Hains	NA
1926 Explosion Radius	26OR-045-13	14872942.65	1768749.903	Channel 2	14.96	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	5	14872942.36	1768749.608	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-045-14	14872900.34	1768751.027	Channel 2	14.19	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit	0.01	6	14872900.84	1768751.027	6	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-045-15	14872899.59	1768734.142	Channel 2	12.52	White's XLT	Seed	Grid Corner Nail	1	corner nail		0	14872899.59	1768734.142	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-045-16	14872939.35	1768759.644	Channel 2	2.82	White's XLT	Cultural Debris	Metal Scrap	1	copper scrap	0.1	6	14872939.85	1768759.644	6	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-045-17	14872923.29	1768768.547	Channel 2	2.56	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	11	14872923.94	1768767.899	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-045-2-1	14872903.3	1768756.32	Channel 2	162.24	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	12	14872903.3	1768755.32	4	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-045-2-2	14872903.3	1768756.32	Channel 2	162.24	White's XLT	Cultural Debris	Wire	1	Wire	0.1	12	14872903.3	1768755.32	4	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-045-3-1	14872904.7	1768754.408	Channel 2	123.72	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	6	14872904.7	1768754.908	6	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-045-3-2	14872904.7	1768754.408	Channel 2	123.72	White's XLT	Cultural Debris	Metal Scrap	1	metal cup	0.5	6	14872904.7	1768753.908	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-045-4	14872928.5	1768773.087	Channel 2	78.42	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.5	4	14872928.26	1768772.851	3	4/28/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-045-5	14872907.08	1768756.565	Channel 2	61.36	White's XLT	Cultural Debris	Rebar	1	Rebar	0.5	8	14872907.08	1768755.898	4	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-045-6-1	14872948.59	1768743.942	Channel 2	55.32	White's XLT	Seed	Grid Corner Nail	1	corner nail		0	14872948.59	1768743.942	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-045-6-2	14872948.59	1768743.942	Channel 2	55.32	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	4	14872948.83	1768744.178	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-045-7	14872889.97	1768782.177	Channel 2	54.33	White's XLT	Seed	Grid Corner Nail	1	corner nail		0	14872889.97	1768782.177	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-045-8	14872927.03	1768770.243	Channel 2	53.45	White's XLT	Seed	2" x 8" Pipe	1	Shared with target 4	0.5	8	14872927.5	1768770.714	3	4/28/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-045-9	14872904.42	1768750.813	Channel 2	45.74	White's XLT	Cultural Debris	Nail	3	Nail	0.01	6	14872903.92	1768750.813	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-046-401	14873021.42	1768997.596	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	1	4/18/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-046-402	14873031.82	1768972.915	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	12	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-046-403	14873037.8	1768996.959	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	8	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-046-404	14873024.44	1769007.911	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	6	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-046-405	14873026.8	1768983.208	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	4	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-046-406	14873003.92	1768993.826	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	4	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-046-407	14873033.79	1769002.954	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	1	4/18/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-046-408	14873017.71	1768972.548	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-047-401	14873510.89	1770218.271	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	4/19/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-047-402	14873524.39	1770221.512	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	4	4/19/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-047-403	14873489.83	1770229.43	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	4	4/19/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-047-404	14873491.75	1770247.921	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Large Pieces of Fragment	30	NA	-	-	1	4/19/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-047-405	14873517.47	1770240.255	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	4	4/19/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-047-406	14873491.96	1770219.751	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	4	4/19/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-047-407	14873502.72	1770214.333	Mag & Dig	Analog	White's XLT	Cultural Debris	Chain	1	Chain	1	NA	-	-	3	4/19/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-047-408	14873509.95	1770245.89	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	4/19/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-047-409	14873497.51	1770234.909	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	8	4/19/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-048-401	14873471.83	1770439.873	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Small Pieces of Fragment	0.01	NA	-	-	4	4/19/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-048-402	14873485.6	1770458.091	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Small Pieces of Fragment	0.02	NA	-	-	3	4/19/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-048-403	14873462.19	1770440.271	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	3	4/19/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-048-404	14873489.54	1770445.646	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	4/19/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-049-401	14873118.18	1770027.251	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Small Pieces of Scrap Metal	0.01	NA	-	-	3	4/19/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-049-402	14873115.38	1770019.244	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	3	4/19/2012	Jan Lutz	Left in place
1926 Explosion Radius	26OR-049-403	14873121.26	1770012.513	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	4	4/19/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-049-404	14873140.15	1769995.117	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	3	4/19/2012	Jan Lutz	Left in place
1926 Explosion Radius	26OR-049-405	14873144.39	1769995.188	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	4	4/19/2012	Jan Lutz	Left in place
1926 Explosion Radius	26OR-049-406	14873130.96	1770004.097	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	6	4/19/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-049-407	14873145.3	1770028.87	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	4	4/19/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-049-408	14873126.31	1770018.478	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	4	4/19/2012	Jan Lutz	Left in place
1926 Explosion Radius	26OR-049-409	14873137.91	1770009.306	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	4	4/19/2012	Jan Lutz	Left in place
1926 Explosion Radius	26OR-049-410	14873135.73	1770010.696	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	6	4/19/2012	Jan Lutz	Left in place
1926 Explosion Radius	26OR-049-411	14873131.06	1770022.322	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	4	4/19/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-050-401	14872745.64	1769600.234	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	3	7.62 Blank	0.01	NA	-	-	3	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-050-402	14872749.71	1769613.135	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	Blank Ammunition	0.01	NA	-	-	2	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-050-403	14872773.21	1769577.992	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.02	NA	-	-	4	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-050-404	14872742.23	1769573.466	Mag & Dig	Analog	White's XLT	Munitions Debris	Tube	1	Burster Tube, Functioned	0.01	NA	-	-	3	4/18/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-050-405	14872759.19	1769613.137	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	4	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-050-406	14872765.64	1769593.496	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	3	7.62 Blanks	0.01	NA	-	-	0	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-051-401	14872169.4	1769233.656	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	3	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-051-402	14872170.97	1769199.922	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	2	4/18/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-051-403	14872147.07	1769225.938	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	12	4/18/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-051-404	14872160.52	1769220.62	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	6	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-051-405	14872169.9	1769220.271	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-051-406	14872144.38	1769199.716	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	3	4/18/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-051-407	14872147.97	1769189.12	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	3	4/18/2012	Dan Hains	Verified as MDAS/Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26OR-051-408	14872174.58	1769194.86	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1.5	NA	-	-	3	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-052-401	14872692.27	1769902.069	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	6	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-052-402	14872682.1	1769917.671	Mag & Dig	Analog	White's XLT	Small Arms	Metal Scrap	1	Shotgun Primers	0.01	NA	-	-	1	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-052-403	14872701.85	1769922.45	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-052-404	14872709.82	1769915.506	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	3	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-052-405	14872697.53	1769931.31	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	20	NA	-	-	8	4/18/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-052-406	14872688.99	1769901.256	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	2	4/18/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-052-407	14872688.02	1769925.562	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	4	4/18/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-052-408	14872694.99	1769933.259	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.02	NA	-	-	2	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-052-409	14872701.92	1769939.488	Mag & Dig	Analog	White's XLT	Small Arms	Other	1	Expended 20 ga Shotgun Shell	0.01	NA	-	-	2	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-052-410	14872709.9	1769939.365	Mag & Dig	Analog	White's XLT	Small Arms	Other	1	Cart Case	0.02	NA	-	-	2	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-053-401	14873278.05	1770791.472	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	4	4/19/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-053-402	14873308.56	1770790.41	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Small Pieces of Fragment	0.01	NA	-	-	3	4/19/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-053-403	14873295.98	1770772.617	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	2	4/19/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-053-404	14873302.43	1770800.66	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	0	4/19/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-053-405	14873307.25	1770817.754	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	3	4/19/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-053-406	14873298.75	1770820.529	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	4	4/19/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-053-407	14873316.3	1770807.215	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Shotgun Primer	0.01	NA	-	-	2	4/19/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-053-408	14873306.75	1770792.631	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	4	4/19/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-053-409	14873288.28	1770783.997	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Small Pieces of Fragment	0.01	NA	-	-	4	4/19/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-054-401	14872152.79	1769757.75	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	3	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-054-402	14872164.56	1769773.452	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-054-403	14872181.77	1769784.602	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-054-404	14872180.85	1769754.86	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	3	4/18/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-054-405	14872164.63	1769785.323	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	1	4/18/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-054-406	14872174.88	1769784.804	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	1	4/18/2012	Dan Hains	Transferred to PTA Archaeologist
1926 Explosion Radius	26OR-054-407	14872154	1769771.7	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	1	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-054-408	14872170.38	1769772.866	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	4	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-054-409	14872152.61	1769784.835	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	6	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-054-410	14872159.31	1769787.136	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/18/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-054-411	14872171.18	1769784.739	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	0	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-054-412	14872187.55	1769784.518	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-055-401	14872706.54	1770186.772	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.01	NA	-	-	4	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-055-402	14872700.08	1770188.066	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0	NA	-	-	1	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-055-403	14872721.29	1770164.405	Mag & Dig	Analog	White's XLT	Munitions Debris	Tube	1	Burster tube, Functioned	0.01	NA	-	-	2	4/18/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-055-404	14872717.27	1770150.462	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-055-405	14872701	1770171.537	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	3	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-055-406	14872688.55	1770168.63	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	1	4/18/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-055-407	14872726.67	1770154.399	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	4/18/2012	Dan Hains	Transferred to PTA Archaeologist
1926 Explosion Radius	26OR-055-408	14872710.2	1770181.721	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	12	4/18/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-064-401	14873101.16	1770252.438	Mag & Dig	Analog	White's XLT	Cultural Debris	Horseshoe	1	Horseshoe	0.5	NA	-	-	4	4/19/2012	Jan Lutz	Transferred to PTA Archaeologist
1926 Explosion Radius	26OR-064-402	14873081.01	1770263.934	Mag & Dig	Analog	White's XLT	DMM	Projectile	1	5" Armor Piercing Projectile	40	NA	-	-	0	4/19/2012	Jan Lutz	Demolition/Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-064-403	14873100.34	1770281.155	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	4	4/19/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-064-404	14873089.48	1770281.821	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	4	4/19/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-064-405	14873091.59	1770268.022	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	3	4/19/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-064-406	14873078.38	1770278.106	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	2	4/19/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-064-407	14873068.62	1770263.728	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	4	4/19/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-064-408	14873101.4	1770268.48	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	4	4/19/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-064-409	14873100.29	1770260.796	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	3	4/19/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-064-410	14873065.3	1770280.005	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	3	Fragment	0.1	NA	-	-	3	4/19/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-064-411	14873060.66	1770274.264	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	4	4/19/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-064-412	14873071.24	1770276.965	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	3	4/19/2012	Jan Lutz	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-076-401	14867874.67	1765094.694	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	mechanical pencil	0.02	NA	-	-	3	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-076-402	14867888.67	1765100.261	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire		NA	-	-	0	5/6/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-076-403	14867875.17	1765065.237	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire		NA	-	-	0	5/6/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-076-404	14867876.7	1765074.09	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire		NA	-	-	2	5/6/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-076-405	14867849.2	1765100.349	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	flat spireled metal strip .5 in wide	0.1	NA	-	-	3	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-076-406	14867878.25	1765083.624	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	1	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-076-407	14867878.25	1765083.624	Mag & Dig	Analog	White's XLT	Small Arms	Shotgun Primer	1	Shotgun Primer	0.01	NA	-	-	1	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-076-408	14867856.54	1765111.359	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	5/6/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-076-409	14867868.97	1765110.436	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.1	NA	-	-	2	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-076-410	14867874.75	1765111.265	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-076-411	14867845.52	1765092.079	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	0	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-076-412	14867852.81	1765094.807	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.1	NA	-	-	2	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-076-413	14867878.24	1765080.865	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-076-414	14867870.9	1765069.853	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.02	NA	-	-	1	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-076-415	14867872.79	1765061.739	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.1	NA	-	-	3	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-076-416	14867859.94	1765064.385	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.1	NA	-	-	4	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-076-417	14867852.78	1765089.28	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.1	NA	-	-	3	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-076-418	14867839.66	1765078.562	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	4	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-076-419	14867841.17	1765087.779	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.1	NA	-	-	3	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-076-420	14867850.32	1765074.381	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.1	NA	-	-	2	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-076-421	14867841.36	1765082.31	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	pocket knife	0.1	NA	-	-	1	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-076-422	14867851.21	1765105.545	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	1	NA	-	-	2	5/6/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-076-423	14867849.19	1765097.584	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.1	NA	-	-	3	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-076-424	14867863.65	1765078.179	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Debris too large to clear.		NA	-	-	0	5/6/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-076-425	14867881.85	1765075.323	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.1	NA	-	-	2	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-076-426	14867882	1765102.939	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	6	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-076-427	14867877.04	1765071.155	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.1	NA	-	-	2	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-076-428	14867878.26	1765086.389	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.1	NA	-	-	3	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-076-429	14867856.55	1765105.136	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Debris too large to clear.		NA	-	-	0	5/6/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-077-401	14867285.96	1764459.201	Mag & Dig	Analog	White's XLT	Cultural Debris	Concrete	3	Concrete		NA	-	-	0	5/6/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-077-402	14867287.88	1764465.292	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	0	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-403	14867300.34	1764462.071	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	steel rod	1	NA	-	-	2	5/6/2012	William Sturm	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26OR-077-404	14867305.28	1764457.87	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	0.5	NA	-	-	4	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-405	14867289.41	1764462.815	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	rusted apart paint can, small pieces still in hole	0.02	NA	-	-	6	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-406	14867292.32	1764462.425	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	20 in long bolt	0.5	NA	-	-	3	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-407	14867323.68	1764426.785	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	steel banding wrapped in roots.		NA	-	-	6	5/6/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-077-408	14867310.3	1764418.139	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	broken apart pully	0.5	NA	-	-	2	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-409	14867299.39	1764420.96	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	0.1	NA	-	-	2	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-410	14867303.16	1764445.799	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	large fencing staple	0.01	NA	-	-	1	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-411	14867292.19	1764437.567	Mag & Dig	Analog	White's XLT	Cultural Debris	Bottle Top	1	Bottle Top	0.01	NA	-	-	1	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-412	14867284.96	1764448.652	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	oil can lid	0.01	NA	-	-	1	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-413	14867288.52	1764432.061	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	can lid	0.01	NA	-	-	1	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-414	14867292.19	1764437.567	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	1	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-415	14867297.53	1764461.84	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Item located in burial pit. multiple items steel rods, and scrap metal	1	NA	-	-	4	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-416	14867303.23	1764459.606	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	steel rod	1	NA	-	-	1	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-417	14867306.8	1764445.781	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	nails and other remains of construction material		NA	-	-	6	5/6/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-077-418	14867311.66	1764456.633	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-419	14867317.6	1764420.867	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.02	NA	-	-	4	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-420	14867299.56	1764454.101	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	small piece of angle iron	0.02	NA	-	-	3	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-421	14867315.44	1764457.834	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-422	14867317.56	1764456.307	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	1	Debris too large to clear.		NA	-	-	2	5/6/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-077-423	14867327.93	1764453.549	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	1	more of the nail pit		NA	-	-	4	5/6/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-077-424	14867324.48	1764450.336	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	4	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-425	14867292.27	1764417.925	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	pipe bent 90 degrees and anchored within the ground		NA	-	-	2	5/6/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-077-426	14867306.72	1764429.209	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-427	14867317.65	1764431.912	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-428	14867322.9	1764430.529	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-429	14867320.99	1764419.72	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	1	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-430	14867321.62	1764437.882	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	chissle	0.1	NA	-	-	4	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-431	14867320.03	1764414.993	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	steel rod	0.5	NA	-	-	3	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-432	14867321.42	1764456.754	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-433	14867324.61	1764455.21	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-434	14867309.69	1764459.559	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit	0.1	NA	-	-	3	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-435	14867313.93	1764415.361	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	NA	-	-	3	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-436	14867299.49	1764440.294	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	3	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-437	14867292.3	1764459.663	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-438	14867295.93	1764456.885	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	2	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-439	14867286.47	1764457.408	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0.02	NA	-	-	0	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-440	14867285.02	1764453.836	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	3	Bolt	0.1	NA	-	-	6	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-441	14867286.49	1764461.7	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		NA	-	-	4	5/6/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-077-442	14867303.37	1764414.996	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.	0.5	NA	-	-	15	5/6/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-077-443	14867295.18	1764419.681	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	pully wheel	0.25	NA	-	-	4	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-444	14867299.39	1764420.96	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	3	Nail	0.02	NA	-	-	1	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-445	14867285.54	1764420.523	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0.01	NA	-	-	0	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-446	14867292.23	1764445.855	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	armored cable, some removed, more under rocks	0.5	NA	-	-	3	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-447	14867299.53	1764448.577	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	NA	-	-	4	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-448	14867290.1	1764419.956	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	2 in. diameter steel bar	10	NA	-	-	4	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-449	14867281.74	1764438.747	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.25	NA	-	-	0	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-450	14867281.2	1764426.575	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	part of a tire	0.1	NA	-	-	0	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-451	14867280.43	1764433.992	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-452	14867278.12	1764430.51	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	0	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-453	14867310.45	1764448.521	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	bottle opener	0.1	NA	-	-	4	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-454	14867303.16	1764445.799	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-455	14867317.67	1764434.677	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-456	14867324.95	1764434.639	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	washer	0.02	NA	-	-	4	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-457	14867321.28	1764429.134	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-458	14867321.95	1764423.772	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	4 bolt wire terminal	1	NA	-	-	3	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-077-459	14867320.9	1764434.063	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-079-1	14867705.42	1763741.034	Channel 2	170.26	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.5	3	14867705.42	1763741.284	4	4/28/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-079-10	14867714.88	1763716.639	Channel 2	7.15	White's XLT	Geology	Hot rock	1	Hot rock		0	14867714.88	1763716.639	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-079-2	14867698.71	1763698.015	Channel 2	64.75	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		1	14867698.79	1763698.015	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-079-3	14867708.52	1763719.06	Channel 2	33.92	White's XLT	Munitions Debris	Frag	1	Fragment	7	4	14867708.52	1763718.727	12	4/28/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-079-4	14867746.44	1763710.397	Channel 2	27.73	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14867746.44	1763710.397	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-079-5	14867722.49	1763704.19	Channel 2	26.09	White's XLT	Munitions Debris	Frag	1	Fragment	4	8	14867722.96	1763703.719	8	4/28/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-079-6	14867712.08	1763734.612	Channel 2	17.70	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	2	14867712.08	1763734.445	6	4/28/2012	Dan Hains	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-079-7	14867686.33	1763746.453	Channel 2	13.91	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14867686.33	1763746.453	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-079-8	14867696.08	1763704.913	Channel 2	7.80	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	6	14867696.08	1763705.413	6	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-079-9	14867698.34	1763704.014	Channel 2	7.67	White's XLT	Cultural Debris	Metal Scrap	1	rivet	0.01	6	14867698.34	1763704.514	6	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-080-1	14867989.08	1763147.916	Channel 2	190.52	White's XLT	Seed	2" x 8" Pipe	1	Shared with target 2	2	5	14867988.79	1763147.621	4	5/12/2012	William Sturm	Retained by Weston
1926 Explosion Radius	26OR-080-2	14867989.13	1763145.149	Channel 2	92.79	White's XLT	Seed	2" x 8" Pipe	1	Shared with target 1	2	5	14867989.42	1763145.444	4	5/12/2012	William Sturm	Retained by Weston
1926 Explosion Radius	26OR-080-3	14867969.82	1763140.901	Channel 2	54.48	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14867969.82	1763140.901	0	5/12/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-080-4	14868039.74	1763145.861	Channel 2	50.50	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14868039.74	1763145.861	0	5/12/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-080-5	14868002.82	1763178.436	Channel 2	46.32	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14868002.82	1763178.436	0	5/12/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-080-6	14868001.63	1763134.148	Channel 2	17.95	White's XLT	Cultural Debris	Nail	1	Nail	0.1	2	14868001.8	1763134.148	0	5/12/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-080-7	14868007.34	1763107.946	Channel 2	17.51	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14868007.34	1763107.946	0	5/12/2012	William Sturm	Left in place
1926 Explosion Radius	26OR-080-8	14868011.98	1763111.75	Channel 2	13.02	White's XLT	Munitions Debris	Frag	1	Fragment	2	15	14868013.23	1763111.75	4	5/12/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-081-401	14866454.1	1763646.374	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-081-402	14866417.69	1763649.319	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	0.02	NA	-	-	0	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-081-403	14866432.33	1763663.058	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	0.02	NA	-	-	2	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-081-404	14866468.71	1763654.586	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other	0.01	NA	-	-	3	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-081-405	14866421.29	1763641.017	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	0	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-081-406	14866435.84	1763638.18	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	0.01	NA	-	-	1	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-081-407	14866432.17	1763632.675	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	0.01	NA	-	-	1	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-081-408	14866424.85	1763624.423	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	0.01	NA	-	-	1	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-081-409	14866443.07	1763627.092	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	0.01	NA	-	-	2	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-081-410	14866446.72	1763627.074	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	0.02	NA	-	-	2	5/5/2012	William Sturm	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26OR-081-411	14866432.14	1763627.151	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	0.01	NA	-	-	2	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-081-412	14866453.94	1763615.991	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other	1	NA	-	-	2	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-081-413	14866454.14	1763654.657	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	0.02	NA	-	-	3	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-081-414	14866462.47	1763644.754	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	0.01	NA	-	-	2	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-081-415	14866454.12	1763651.898	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	0.01	NA	-	-	0	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-081-416	14866410.33	1763635.546	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	0	5/5/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-082-401	14866183.35	1763404.683	Mag & Dig	Analog	White's XLT	Small Arms	Shotgun Primer	1	civilan 12 ga. cartridge base	0.01	NA	-	-	2	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-082-402	14866179.7	1763401.937	Mag & Dig	Analog	White's XLT	Small Arms	Shotgun Primer	1	civilan 12 ga. cartridge base	0.01	NA	-	-	3	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-082-403	14866154.14	1763391.018	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	tiny piece of Fragment	0.01	NA	-	-	6	5/6/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-084-401	14865858.51	1763268.224	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	4	5/6/2012	William Sturm	Transferred to PTA
1926 Explosion Radius	26OR-084-402	14865877.17	1763292.779	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.1	NA	-	-	3	5/6/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius	26OR-086-401	14868358.96	1761711.389	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other	0.02	NA	-	-	12	4/12/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius	26OR-087-401	14868407.17	1761370.983	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Plate	0.01	NA	-	-	6	4/13/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-087-402	14868428.39	1761322.64	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	5	Nail	0.01	NA	-	-	4	4/13/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-087-403	14868415.35	1761337.064	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Plate and File	0.01	NA	-	-	4	4/13/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-088-401	14867999.36	1760645.927	Mag & Dig	Analog	White's XLT	Cultural Debris	Horseshoe	1	Horseshoe	0.5	NA	-	-	3	4/13/2012	Dan Hains	Transferred to PTA Archaeologist
1926 Explosion Radius	26OR-088-402	14868000.21	1760665.927	Mag & Dig	Analog	White's XLT	Cultural Debris	Horseshoe	1	Horseshoe	0.5	NA	-	-	6	4/13/2012	Dan Hains	Transferred to PTA Archaeologist
1926 Explosion Radius	26OR-091-1	14868017.64	1761821.498	Channel 2	88.10	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14868017.64	1761821.498	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-091-2	14868001.85	1761807.697	Channel 2	76.48	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.5	8	14868002.32	1761808.168	8	4/28/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-091-3	14867993.06	1761755.969	Channel 2	48.20	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14867993.06	1761755.969	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-091-4	14868002.69	1761810.42	Channel 2	42.21	White's XLT	Seed	2" x 8" Pipe	1	Shared with target 2	0.5	8	14868003.16	1761810.891	6	4/28/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-091-5	14868037.88	1761775.827	Channel 2	22.77	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14868037.88	1761775.827	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-091-6	14867972.8	1761801.668	Channel 2	21.30	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14867972.8	1761801.668	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-091-7	14868025.74	1761785.749	Channel 2	3.93	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	20	14868025.74	1761787.416	4	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-091-8	14868022.98	1761810.771	Channel 2	2.09	White's XLT	Cultural Debris	Nail	1	Nail	0.01	12	14868021.98	1761810.771	6	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-1	14867545.31	1762365.346	Channel 2	156.24	White's XLT	Cultural Debris	Wire	1	Wire	0.01	4	14867545.31	1762365.679	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-10	14867554.09	1762365.419	Channel 2	60.56	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	1	8	14867554.76	1762365.419	8	4/28/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-092-11	14867541.3	1762343.921	Channel 2	53.32	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14867541.3	1762343.921	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-092-12	14867564	1762351.11	Channel 2	48.17	White's XLT	Cultural Debris	Wire	1	Wire	0.1	4	14867564.24	1762351.346	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-13	14867542.23	1762358.304	Channel 2	44.48	White's XLT	Cultural Debris	Wire	1	Wire	0.1	4	14867541.99	1762358.068	0	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-14	14867530.12	1762392.484	Channel 2	28.73	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14867530.12	1762392.484	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-092-15	14867545.43	1762360.399	Channel 2	27.10	White's XLT	Cultural Debris	Wire	1	Wire	0.01	4	14867545.1	1762360.399	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-16	14867543.34	1762356.752	Channel 2	26.85	White's XLT	Cultural Debris	Wire	1	Wire	0.01	10	14867543.93	1762357.341	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-17	14867548.37	1762355.766	Channel 2	23.37	White's XLT	Cultural Debris	Wire	1	Wire	0.01	4	14867548.13	1762355.53	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-18	14867551.31	1762348.259	Channel 2	23.31	White's XLT	Cultural Debris	Nail	1	Nail	0.02	8	14867550.84	1762348.73	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-19	14867541.59	1762356.343	Channel 2	21.52	White's XLT	Cultural Debris	Wire	1	Wire	0.01	18	14867540.53	1762357.404	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-2	14867544.47	1762363.237	Channel 2	112.97	White's XLT	Cultural Debris	Wire	1	Wire	0.01	8	14867544.47	1762362.57	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-20	14867589.31	1762355.285	Channel 2	20.78	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14867589.31	1762355.285	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-092-21	14867551.46	1762350.015	Channel 2	19.34	White's XLT	Cultural Debris	Nail	6	Nail	0.01	8	14867550.99	1762349.544	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-22	14867553.47	1762346.652	Channel 2	17.45	White's XLT	Cultural Debris	Wire	1	Wire	0.01	7	14867553.47	1762347.235	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-23	14867538.15	1762365.731	Channel 2	17.28	White's XLT	Cultural Debris	Wire	1	Wire	0.01	4	14867537.91	1762365.495	0	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-24	14867536.09	1762367.148	Channel 2	16.50	White's XLT	Cultural Debris	Wire	1	Wire	0.01	4	14867536.42	1762367.148	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-25	14867537.78	1762369.654	Channel 2	15.56	White's XLT	Cultural Debris	Wire	1	Wire	0.01	12	14867537.07	1762368.947	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-26	14867553.24	1762356.935	Channel 2	13.72	White's XLT	Cultural Debris	Wire	1	Wire	0.01	8	14867552.77	1762357.406	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-27	14867551.73	1762358.482	Channel 2	12.08	White's XLT	Cultural Debris	Wire	1	Wire	0.01	6	14867551.73	1762357.982	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-28	14867537.81	1762367.553	Channel 2	9.90	White's XLT	Cultural Debris	Wire	1	Wire	0.01	4	14867537.48	1762367.553	0	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-29	14867554.07	1762359.045	Channel 2	9.67	White's XLT	Cultural Debris	Wire	1	Wire	0.01	8	14867553.6	1762358.574	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-3	14867543.81	1762367.616	Channel 2	109.25	White's XLT	Cultural Debris	Wire	1	Wire	0.1	12	14867543.81	1762368.616	0	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-30	14867570.9	1762379.695	Channel 2	9.02	White's XLT	Cultural Debris	Nail	1	Nail	0.01	12	14867571.61	1762378.988	4	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-31	14867547.01	1762357.643	Channel 2	8.27	White's XLT	Cultural Debris	Wire	1	Wire	0.01	12	14867546.3	1762356.936	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-32	14867542.93	1762348.16	Channel 2	7.42	White's XLT	Cultural Debris	Wire	1	Wire	0.01	12	14867542.22	1762347.453	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-33	14867558.41	1762397.217	Channel 2	7.08	White's XLT	Cultural Debris	Nail	1	Nail	0.1	12	14867558.41	1762398.217	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-34	14867552.58	1762354.71	Channel 2	6.03	White's XLT	Cultural Debris	Horseshoe	1	Horseshoe	0.02	2	14867552.7	1762354.828	6	4/28/2012	Dan Hains	Transferred to PTA Archaeologist
1926 Explosion Radius	26OR-092-35	14867544.28	1762371.199	Channel 2	5.38	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	3	14867544.03	1762371.199	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-36-1	14867559.11	1762382.982	Channel 2	4.11	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	12	14867558.11	1762382.982	12	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-36-2	14867559.11	1762382.982	Channel 2	4.11	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	24	14867559.11	1762380.982	6	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-4	14867558.17	1762353.914	Channel 2	105.72	White's XLT	Cultural Debris	Wire	1	Wire	0.1	2	14867558.29	1762353.796	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-5	14867560.27	1762352.317	Channel 2	75.43	White's XLT	Cultural Debris	Wire	1	Wire	0.1	4	14867560.27	1762352.65	0	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-6	14867575.26	1762368.939	Channel 2	74.54	White's XLT	Cultural Debris	Wire	1	Wire	0.5	7	14867574.85	1762369.351	0	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-7	14867575.17	1762371.8	Channel 2	72.84	White's XLT	Cultural Debris	Wire	1	Shared with target 6	0.1	7	14867574.76	1762372.212	0	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-8	14867548.09	1762363.891	Channel 2	65.61	White's XLT	Cultural Debris	Wire	1	Wire	0.1	18	14867547.03	1762364.952	0	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-092-9-1	14867578.26	1762403.887	Channel 2	65.22	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14867578.26	1762403.887	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-092-9-2	14867578.26	1762403.887	Channel 2	65.22	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	24	14867576.85	1762402.473	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-093-401	14867462.49	1761363.028	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Small Pieces of Metal	0.01	NA	-	-	1	4/13/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-093-402	14867458.84	1761334.324	Mag & Dig	Analog	White's XLT	Small Arms	Primer	1	Shotgun Primer	0.01	NA	-	-	3	4/13/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-093-403	14867471.81	1761361.399	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	4	4/13/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-094-401	14867380.68	1760982.078	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Button	0.01	NA	-	-	0	4/13/2012	Dan Hains	Transferred to PTA Archaeologist
1926 Explosion Radius	26OR-095-10	14867341.92	1762005.96	Channel 2	25.15	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	10	14867342.51	1762006.549	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-095-11	14867356.28	1761979.884	Channel 2	24.79	White's XLT	Cultural Debris	Nail	1	Nail	0.02	12	14867356.28	1761980.884	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-095-1-1	14867400.23	1761981.349	Channel 2	224.77	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14867400.23	1761981.349	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-095-12	14867374.99	1762014.713	Channel 2	24.77	White's XLT	Cultural Debris	Nail	1	Nail	0.01	6	14867374.64	1762015.067	6	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-095-1-2	14867400.23	1761981.349	Channel 2	224.77	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	9	14867400.76	1761980.819	0	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-095-13	14867364.87	1761968.732	Channel 2	20.36	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	3	14867364.69	1761968.555	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-095-14	14867395.64	1761982.758	Channel 2	17.08	White's XLT	Cultural Debris	Nail	1	Nail	0.01	6	14867395.64	1761982.258	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-095-15	14867360.71	1761985.077	Channel 2	16.92	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.5	6	14867360.71	1761985.577	3	4/28/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-095-16	14867377.7	1761985.478	Channel 2	16.57	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	12	14867376.7	1761985.478	0	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-095-17	14867375.8	1762012.614	Channel 2	15.58	White's XLT	Cultural Debris	Nail	3	Nail	0.1	3	14867375.8	1762012.864	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-095-18	14867365.47	1761994.956	Channel 2	13.33	White's XLT	Cultural Debris	Nail	1	Nail	0.01	12	14867366.47	1761994.956	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-095-19	14867365.57	1761972.485	Channel 2	13.15	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	12	14867366.28	1761973.192	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-095-2	14867376.75	1761999.046	Channel 2	130.99	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	4	14867376.75	1761998.713	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-095-20	14867375.03	1761986.857	Channel 2	12.14	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	12	14867376.03	1761986.857	0	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-095-21	14867390.81	1761979.287	Channel 2	9.79	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	18	14867389.75	1761980.348	0	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-095-22	14867368.1	1762004.813	Channel 2	8.98	White's XLT	Cultural Debris	Nail	1	Nail	0.01	8	14867367.63	1762005.284	4	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-095-23	14867357.51	1762004.475	Channel 2	8.73	White's XLT	Small Arms	Shotgun Primer	1	Shotgun Primer	0.01	7	14867357.1	1762004.887	4	4/28/2012	Dan Hains	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26OR-095-24	14867377.21	1761975.642	Channel 2	8.19	White's XLT	Cultural Debris	Nail	1	Nail	0.01	24	14867377.21	1761977.642	6	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-095-25	14867369.22	1761985.236	Channel 2	6.66	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	12	14867369.22	1761984.236	4	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-095-26	14867371.72	1761984.324	Channel 2	6.39	White's XLT	Cultural Debris	Nail	1	Nail	0.01	18	14867373.22	1761984.324	6	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-095-27	14867359.48	1761971.601	Channel 2	5.44	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	4	14867359.72	1761971.837	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-095-28	14867367.95	1761982.986	Channel 2	4.56	White's XLT	Cultural Debris	Nail	2	Nail	0.1	8	14867367.95	1761983.653	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-095-29	14867382.46	1761984.261	Channel 2	3.58	White's XLT	Cultural Debris	Nail	1	Nail	0.1	12	14867383.17	1761983.554	4	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-095-3	14867380.44	1761989.485	Channel 2	112.71	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	1.5	6	14867380.44	1761989.985	3	4/28/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-095-4	14867381.72	1761991.048	Channel 2	98.67	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.5	6	14867381.72	1761991.548	3	4/28/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-095-5-1	14867336.97	1762007.829	Channel 2	78.89	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14867336.97	1762007.829	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-095-5-2	14867336.97	1762007.829	Channel 2	78.89	White's XLT	Cultural Debris	Nail	1	Nail	0.01	3	14867336.72	1762007.829	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-095-6	14867383.86	1761974.738	Channel 2	69.63	White's XLT	Cultural Debris	Pipe	1	Pipe	1	10	14867383.86	1761973.905	0	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-095-7	14867382.8	1762027.739	Channel 2	35.46	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14867382.8	1762027.739	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-095-8	14867372.5	1762015.625	Channel 2	28.11	White's XLT	Cultural Debris	Nail	6	Nail	0.02	4	14867372.5	1762015.292	4	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-095-9	14867362.74	1761968.711	Channel 2	28.09	White's XLT	Cultural Debris	Nail	1	Nail	0.01	3	14867362.92	1761968.534	4	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-096-401	14867274.59	1761680.917	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Strap	1	Metal Strap	0.02	NA	-	-	2	4/13/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-096-402	14867264.02	1761644.616	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	2	4/13/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-096-403	14867252.59	1761664.776	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	12	4/13/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-096-404	14867262.04	1761656.056	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	6	4/13/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-097-1	14867217.98	1761955.35	Channel 2	6034.50	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	1	14867217.92	1761955.409	0	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-097-10	14867228.95	1761965.526	Channel 2	49.09	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.5	12	14867228.24	1761966.233	4	4/28/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-097-11	14867238.97	1761987.812	Channel 2	46.28	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	12	14867237.97	1761987.812	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-097-12	14867257.71	1761968.918	Channel 2	36.03	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14867257.71	1761968.918	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-097-13	14867213.09	1761955.711	Channel 2	15.82	White's XLT	Cultural Debris	Nail	1	Nail	0.01	6	14867212.59	1761955.711	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-097-14	14867194.29	1762000.003	Channel 2	14.89	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail	0.01	0	14867194.29	1762000.003	0	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-097-15	14867209.64	1761973.588	Channel 2	14.64	White's XLT	Cultural Debris	Nail	7	Nail	0.01	18	14867209.64	1761972.088	4	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-097-16	14867204.11	1761973.547	Channel 2	13.32	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit	0.01	4	14867204.44	1761973.547	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-097-17	14867218.33	1761959.615	Channel 2	12.79	White's XLT	Cultural Debris	Nail	7	Nail	0.01	2	14867218.5	1761959.615	6	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-097-18	14867207.65	1761974.759	Channel 2	12.31	White's XLT	Cultural Debris	Nail	5	Nail	0.01	12	14867207.65	1761973.759	4	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-097-19	14867204	1761971.672	Channel 2	11.72	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit	0.01	7	14867204.58	1761971.672	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-097-2	14867237.09	1761991.42	Channel 2	201.11	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	12	14867236.38	1761990.713	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-097-20	14867210.12	1761962.919	Channel 2	11.38	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit	0.01	12	14867209.41	1761963.626	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-097-21	14867206.58	1761980.996	Channel 2	10.22	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	4	14867206.91	1761980.996	6	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-097-3	14867238.92	1761989.932	Channel 2	171.82	White's XLT	Cultural Debris	Wire	1	Wire	0.01	4	14867238.68	1761990.168	0	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-097-4	14867216.39	1761957.12	Channel 2	116.02	White's XLT	Cultural Debris	Nail	1	Nail	0.01	6	14867215.89	1761957.12	0	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-097-5	14867230.3	1761991.212	Channel 2	114.99	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	12	14867229.59	1761990.505	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-097-6	14867228.19	1761967.242	Channel 2	70.42	White's XLT	Seed	2" x 8" Pipe	1	Shared with target 7	0.5	6	14867228.19	1761967.742	4	4/28/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-097-7	14867227.38	1761968.817	Channel 2	67.26	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.5	6	14867227.38	1761968.317	4	4/28/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-097-8	14867231.68	1761989.789	Channel 2	54.93	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	12	14867230.97	1761990.496	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-097-9	14867210.43	1761952.771	Channel 2	53.23	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14867210.43	1761952.771	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-098-1	14867098.61	1762908.483	Channel 2	759.87	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	7	18	14867099.67	1762909.544	8	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-10	14867105.6	1762920.632	Channel 2	193.09	White's XLT	Cultural Debris	Pipe	1	Pipe		0	14867105.6	1762920.632	4	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-098-11	14867142.13	1762887.353	Channel 2	191.86	White's XLT	Cultural Debris	Pipe	1	Pipe		12	14867143.13	1762887.353	2	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-098-12	14867133.35	1762931.226	Channel 2	153.42	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	3	14867133.53	1762931.049	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-13	14867111.98	1762909.322	Channel 2	140.15	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.5	10	14867111.39	1762908.733	8	4/29/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-098-14	14867127.84	1762899.331	Channel 2	106.57	White's XLT	Cultural Debris	Pipe	1	Shared with target 16		6	14867128.34	1762899.331	6	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-098-15	14867130.8	1762930.744	Channel 2	102.33	White's XLT	Cultural Debris	Nail Pit	1	Shared with target 17	1	12	14867131.51	1762931.451	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-16	14867129.28	1762900.181	Channel 2	95.98	White's XLT	Cultural Debris	Pipe	1	Pipe		6	14867128.78	1762900.181	6	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-098-17	14867132.45	1762934.006	Channel 2	80.59	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit	0.1	12	14867131.74	1762934.713	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-18	14867146.18	1762913.35	Channel 2	68.27	White's XLT	Cultural Debris	Nail	1	Nail	0.01	10	14867146.77	1762913.939	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-19-1	14867121.97	1762948.141	Channel 2	59.36	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14867121.97	1762948.141	0	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-098-19-2	14867121.97	1762948.141	Channel 2	59.36	White's XLT	Cultural Debris	Nail	5	Nail	0.01	4	14867121.64	1762948.141	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-2	14867098.7	1762906.334	Channel 2	689.54	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 7	2	6	14867099.2	1762906.334	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-20-1	14867095.06	1762906.016	Channel 2	56.29	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14867095.06	1762906.016	0	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-098-20-2	14867095.06	1762906.016	Channel 2	56.29	White's XLT	Cultural Debris	Pipe	1	Pipe	1	0	14867095.06	1762906.016	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-21-1	14867146.64	1762898.446	Channel 2	44.51	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit	0.01	3	14867146.82	1762898.269	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-21-2	14867146.64	1762898.446	Channel 2	44.51	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit	0.01	5	14867146.64	1762898.029	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-22	14867145.22	1762918.747	Channel 2	43.90	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	18	14867146.28	1762919.808	1	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-23	14867146.97	1762922.374	Channel 2	42.72	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0	12	14867146.26	1762923.081	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-24-1	14867136.65	1762879.002	Channel 2	39.34	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14867136.65	1762879.002	0	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-098-24-2	14867136.65	1762879.002	Channel 2	39.34	White's XLT	Small Arms	Casing	1	Casing	0.01	8	14867136.18	1762879.473	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-25	14867107.41	1762902.763	Channel 2	37.52	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	12	14867107.41	1762901.763	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-26	14867147.23	1762929.658	Channel 2	30.53	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	12	14867147.94	1762928.951	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-27	14867141.36	1762916.482	Channel 2	27.78	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	4	14867141.12	1762916.246	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-28	14867157.15	1762925.23	Channel 2	24.85	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	12	14867156.15	1762925.23	8	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-29	14867150.45	1762927.27	Channel 2	24.48	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	8	14867151.12	1762927.27	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-3	14867104.78	1762914.312	Channel 2	631.13	White's XLT	Cultural Debris	Bolt	1	Bolt	15	10	14867105.37	1762914.901	8	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-30	14867131.42	1762918.166	Channel 2	23.91	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	2	14867131.42	1762918.333	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-31	14867144.97	1762921.587	Channel 2	22.80	White's XLT	Cultural Debris	Wire	1	Wire	0.01	24	14867146.38	1762923.001	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-32	14867129.41	1762912.318	Channel 2	21.15	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	12	14867129.41	1762913.318	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-33	14867137.13	1762904.92	Channel 2	20.73	White's XLT	Cultural Debris	Wire	1	Wire	0.01	15	14867137.13	1762903.67	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-34	14867137.88	1762923.514	Channel 2	19.71	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	4	14867138.12	1762923.278	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-35	14867140.42	1762914.693	Channel 2	19.67	White's XLT	Cultural Debris	Bolt	1	Shared with target 27	0.02	12	14867141.42	1762914.693	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-36	14867118.81	1762912.052	Channel 2	19.20	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	8	14867118.81	1762912.719	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-37	14867156.59	1762918.814	Channel 2	15.16	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	8	14867157.06	1762919.285	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-38	14867135.5	1762896.441	Channel 2	12.14	White's XLT	Cultural Debris	Nail	4	Nail	0.01	8	14867136.17	1762896.441	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-39	14867134.56	1762939.978	Channel 2	10.92	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap, Lightbulb Parts	0.5	12	14867135.27	1762939.271	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-4	14867105.43	1762915.912	Channel 2	537.03	White's XLT	Cultural Debris	Bolt	1	Shared with target 3	15	12	14867106.14	1762915.205	8	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-40	14867143.08	1762905.824	Channel 2	10.17	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	2	14867143.08	1762905.657	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-41	14867144.97	1762904.598	Channel 2	9.60	White's XLT	Cultural Debris	Nail	1	Nail	0.01	8	14867144.3	1762904.598	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-42	14867139.77	1762910.361	Channel 2	9.49	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	15	14867140.65	1762911.245	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-43	14867137.01	1762885.919	Channel 2	9.21	White's XLT	Cultural Debris	Wire	1	Wire	0.01	8	14867136.54	1762885.448	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-44	14867139.24	1762908.621	Channel 2	8.34	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0	7	14867138.66	1762908.621	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-45	14867124.88	1762931.957	Channel 2	8.34	White's XLT	Cultural Debris	Bolt	1	Bolt	0.02	12	14867125.59	1762931.25	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-46	14867107.49	1762897.943	Channel 2	7.77	White's XLT	Cultural Debris	Nail	4	Nail	0.01	4	14867107.25	1762897.707	6	4/29/2012	Dan Hains	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26OR-098-5	14867112.57	1762906.569	Channel 2	504.46	White's XLT	Cultural Debris	Pipe	1	Pipe	4	6	14867112.22	1762906.215	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-6	14867098.63	1762903.818	Channel 2	464.13	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	3	18	14867097.57	1762904.879	8	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-7	14867112.2	1762904.576	Channel 2	365.88	White's XLT	Cultural Debris	Pipe	1	Shared with target 5	4	4	14867111.87	1762904.576	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-8	14867102.1	1762910.78	Channel 2	291.06	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1.5	12	14867101.39	1762911.487	6	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-098-9	14867114.16	1762912.69	Channel 2	195.34	White's XLT	Cultural Debris	Pipe	1	Pipe		0	14867114.16	1762912.69	6	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-099-1	14866598.14	1761408.696	Channel 2	66.68	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	0.5	4	14866598.38	1761408.46	8	4/28/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-099-2	14866599.97	1761410.047	Channel 2	66.02	White's XLT	Seed	2" x 8" Pipe	1	Shared with target 1	0.5	8	14866599.5	1761410.518	8	4/28/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-099-3	14866599.15	1761364.762	Channel 2	62.01	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14866599.15	1761364.762	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-099-4	14866604.24	1761434.823	Channel 2	46.53	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0	6	14866603.74	1761434.823	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-099-5	14866637.02	1761397.177	Channel 2	23.95	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14866637.02	1761397.177	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-099-6	14866567.02	1761402.926	Channel 2	20.89	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14866567.02	1761402.926	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-099-7	14866590.74	1761418.035	Channel 2	2.49	White's XLT	Cultural Debris	Horseshoe	1	Horseshoe	0.5	0	14866590.74	1761418.035	0	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-099-8	14866615.96	1761397.528	Channel 2	1.96	White's XLT	Geology	Hot rock	1	Hot rock		12	14866615.25	1761396.821	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-099-9	14866614.76	1761383.302	Channel 2	1.63	White's XLT	Cultural Debris	Nail	2	Nail	0.01	18	14866613.7	1761384.363	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-1	14866787.73	1762475.602	Channel 2	769.09	White's XLT	Cultural Debris	Pipe	1	Shared with targets 5 and 9	5	4	14866787.97	1762475.838	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-10	14866773.46	1762472.373	Channel 2	342.12	White's XLT	Cultural Debris	Metal Scrap	1	plate	0.5	8	14866772.99	1762471.902	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-11	14866792.22	1762464.193	Channel 2	319.41	White's XLT	Cultural Debris	Wire	1	Shared with targets 6, 7, 8 and 15	1	4	14866792.46	1762464.429	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-12	14866771.57	1762465.988	Channel 2	306.13	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	3	14866771.57	1762465.738	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-13	14866783.24	1762469.447	Channel 2	278.97	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 14 and 23	30	6	14866783.24	1762469.947	12	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-14	14866782.49	1762471.019	Channel 2	244.03	White's XLT	Cultural Debris	Metal Scrap	1	big wrench shared with target 13 snd 23	30	7	14866781.91	1762471.019	12	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-15	14866792.53	1762461.947	Channel 2	191.62	White's XLT	Cultural Debris	Wire	1	Shared with target 11	1	7	14866793.11	1762461.947	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-16	14866782.07	1762467.08	Channel 2	171.24	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	6	14866782.07	1762467.58	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-17	14866792.97	1762468.03	Channel 2	136.32	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	6	14866793.47	1762468.03	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-18	14866795.43	1762476.511	Channel 2	135.26	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	4	14866795.43	1762476.178	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-19	14866800.76	1762443.496	Channel 2	125.88	White's XLT	Cultural Debris	Wire	1	Shared with target 26	0.5	12	14866801.76	1762443.496	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-2	14866788.92	1762461.653	Channel 2	529.12	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit	0.01	12	14866789.63	1762462.36	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-20	14866777.64	1762458.681	Channel 2	119.43	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	1	12	14866776.64	1762458.681	4	4/29/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-100-21	14866797.1	1762442.281	Channel 2	104.45	White's XLT	Cultural Debris	Metal Scrap	1	cable pieces	0.02	15	14866796.22	1762443.165	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-22	14866783.85	1762465.234	Channel 2	99.01	White's XLT	Cultural Debris	Wire	1	Wire	0.5	18	14866782.79	1762466.295	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-23	14866780.34	1762472.802	Channel 2	95.39	White's XLT	Cultural Debris	Metal Scrap	1	Shared with targets 13 and 14	30	4	14866780.58	1762472.566	12	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-24	14866795.38	1762480.02	Channel 2	83.64	White's XLT	Cultural Debris	Pipe	1	Pipe	0.5	0	14866795.38	1762480.02	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-25	14866795.87	1762436.154	Channel 2	83.05	White's XLT	Cultural Debris	Metal Scrap	1	Shared with targets 27 and 29	3	2	14866795.99	1762436.272	1	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-26	14866799.35	1762444.478	Channel 2	75.94	White's XLT	Cultural Debris	Wire	1	wire rope	0.5	2	14866799.23	1762444.596	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-27	14866797.84	1762436.574	Channel 2	63.97	White's XLT	Cultural Debris	Metal Scrap	1	Shared with targets 25 and 29	3	2	14866797.72	1762436.692	1	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-28	14866796.91	1762482.396	Channel 2	61.33	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14866796.91	1762482.396	0	4/29/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-100-29	14866796.19	1762437.981	Channel 2	56.42	White's XLT	Cultural Debris	Metal Scrap	1	Shared with targets 25 and 27	3	5	14866796.19	1762438.398	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-3	14866772.19	1762464.205	Channel 2	446.80	White's XLT	Cultural Debris	Metal Scrap	1	plate	0.5	8	14866772.19	1762464.872	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-30	14866798.65	1762456.464	Channel 2	54.69	White's XLT	Cultural Debris	Pipe	1	Pipe	0.1	5	14866798.36	1762456.759	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-31	14866759.85	1762467.195	Channel 2	52.53	White's XLT	Cultural Debris	Metal Scrap	1	bottle opener	1	24	14866757.85	1762467.195	1	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-32	14866796.66	1762456.294	Channel 2	44.06	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0	6	14866796.31	1762456.648	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-33	14866796.67	1762446.216	Channel 2	36.59	White's XLT	Cultural Debris	Metal Scrap	1	cable	0.02	10	14866797.26	1762445.627	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-34	14866764.65	1762475.634	Channel 2	33.69	White's XLT	Cultural Debris	Wire	1	Wire	0.01	12	14866765.65	1762475.634	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-35	14866790.51	1762457.777	Channel 2	30.84	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	12	14866791.22	1762458.484	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-36	14866796.17	1762454.232	Channel 2	28.71	White's XLT	Cultural Debris	Nail	1	Nail	0.02	15	14866796.17	1762455.482	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-37	14866761.41	1762475.357	Channel 2	24.51	White's XLT	Cultural Debris	Metal Scrap	1	pad lock	0.5	12	14866760.41	1762475.357	3	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-38	14866773.67	1762452.319	Channel 2	23.56	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	6	14866773.32	1762452.673	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-39	14866762.1	1762477.403	Channel 2	21.40	White's XLT	Cultural Debris	Wire	1	Wire	0.01	12	14866762.1	1762476.403	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-4	14866789.77	1762463.482	Channel 2	442.35	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit	0.5	4	14866790.01	1762463.246	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-40	14866754.78	1762470.775	Channel 2	13.93	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	24	14866756.19	1762469.361	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-41	14866788.37	1762447.556	Channel 2	12.81	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	18	14866789.43	1762446.495	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-5	14866788.59	1762473.642	Channel 2	436.89	White's XLT	Cultural Debris	Pipe	1	Shared with targets 1 and 9	5	12	14866789.3	1762474.349	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-6	14866795.73	1762464.243	Channel 2	390.50	White's XLT	Cultural Debris	Wire	1	Shared with target 11	1	1	14866795.81	1762464.243	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-7	14866795.63	1762462.478	Channel 2	366.32	White's XLT	Cultural Debris	Wire	1	Shared with target 11	1	4	14866795.63	1762462.145	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-8	14866794.58	1762465.901	Channel 2	350.64	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	0	14866794.58	1762465.901	2	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-100-9	14866785.23	1762475.459	Channel 2	349.96	White's XLT	Cultural Debris	Pipe	1	Shared with targets 1 and 5	5	12	14866786.23	1762475.459	0	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-1	14866325.2	1761614.353	Channel 2	1270.29	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris		12	14866325.2	1761613.353	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-101-10	14866280.29	1761601.344	Channel 2	265.98	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		13	14866279.21	1761601.344	6	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-101-11	14866272.23	1761595.071	Channel 2	257.55	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	0.01	18	14866272.23	1761593.571	4	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-12	14866330.5	1761634.136	Channel 2	215.84	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	0.01	6	14866330	1761634.136	6	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-13	14866337.08	1761641.419	Channel 2	184.44	White's XLT	Cultural Debris	Wire	1	Wire	0.01	12	14866336.08	1761641.419	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-14	14866291.49	1761604.259	Channel 2	166.15	White's XLT	Cultural Debris	Nail	1	Nail	0.01	12	14866290.49	1761604.259	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-15	14866308.75	1761618.533	Channel 2	153.07	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		18	14866307.25	1761618.533	6	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-101-16	14866319.05	1761630.956	Channel 2	121.47	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post	0.5	7	14866319.46	1761630.544	6	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-17	14866332.38	1761639.643	Channel 2	120.80	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post	2	4	14866332.05	1761639.643	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-18	14866330.41	1761640.096	Channel 2	103.90	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	12	14866329.7	1761640.803	6	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-19	14866293.81	1761605.545	Channel 2	98.65	White's XLT	Cultural Debris	Nail	2	Nail	0.01	12	14866294.81	1761605.545	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-2	14866322.2	1761628.632	Channel 2	823.21	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		6	14866321.7	1761628.632	1	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-101-20	14866344.36	1761636.823	Channel 2	89.36	White's XLT	Cultural Debris	Bolt	1	Bolt	1	3	14866344.61	1761636.823	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-21	14866331.04	1761629.58	Channel 2	82.79	White's XLT	Cultural Debris	Wire	1	Wire	0.01	4	14866331.04	1761629.247	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-22	14866333.38	1761623.248	Channel 2	71.79	White's XLT	Cultural Debris	Wire	1	Wire	0.02	3	14866333.56	1761623.071	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-23	14866340.34	1761640.04	Channel 2	69.90	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post	0.01	18	14866341.4	1761638.979	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-24	14866294.72	1761607.753	Channel 2	65.39	White's XLT	Cultural Debris	Nail	1	Nail	0.01	6	14866294.72	1761607.253	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-25	14866331.99	1761659.797	Channel 2	62.74	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14866331.99	1761659.797	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-101-26	14866264.04	1761586.289	Channel 2	59.28	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post	0.1	12	14866264.04	1761587.289	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-27	14866300.67	1761625.821	Channel 2	55.51	White's XLT	Cultural Debris	Pipe	1	Pipe	0.5	18	14866299.61	1761626.882	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-28	14866288.97	1761591.185	Channel 2	51.84	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	1	2	14866288.97	1761591.352	4	4/28/2012	Dan Hains	Retained by Weston
1926 Explosion Radius	26OR-101-29	14866330.11	1761619.816	Channel 2	46.21	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post	0.02	4	14866329.87	1761619.58	0	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-3	14866306.2	1761617.216	Channel 2	655.89	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		2	14866306.2	1761617.383	6	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-101-30	14866277.59	1761598.054	Channel 2	44.92	White's XLT	Cultural Debris	Pipe	1	Pipe	0.1	6	14866278.09	1761598.054	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-31	14866294.74	1761619.597	Channel 2	41.49	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	8	14866295.21	1761619.126	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-32	14866333.96	1761626.263	Channel 2	39.63	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	1	18	14866333.96	1761624.763	0	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-33	14866302.85	1761625.751	Channel 2	37.48	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	12	14866302.14	1761626.458	4	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-34	14866276.4	1761596.77	Channel 2	36.73	White's XLT	Cultural Debris	Pipe	1	Pipe	0.1	6	14866276.9	1761596.77	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-35	14866350.93	1761642.231	Channel 2	33.10	White's XLT	Seed	2" x 8" Pipe	1	Shared with target 28	1	0	14866350.93	1761642.231	0	4/28/2012	Dan Hains	Retained by Weston

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	26OR-101-36	14866298.98	1761606.47	Channel 2	32.03	White's XLT	Cultural Debris	Wire	1	Wire	0.5	8	14866298.98	1761607.137	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-37	14866303.11	1761612.44	Channel 2	28.95	White's XLT	Cultural Debris	Nail	1	Nail	0.5	7	14866303.69	1761612.44	4	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-38	14866349.03	1761642.927	Channel 2	27.91	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	12	14866348.32	1761642.22	8	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-39	14866322.78	1761617.483	Channel 2	25.03	White's XLT	Cultural Debris	Construction Debris	1	Shared with target 1		4	14866322.45	1761617.483	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-101-4	14866293.06	1761579.708	Channel 2	623.29	White's XLT	Cultural Debris	Metal Scrap	1	metal disk	0.1	12	14866292.06	1761579.708	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-40	14866312.58	1761612.337	Channel 2	23.73	White's XLT	Cultural Debris	Nail	1	Nail	0.01	12	14866313.29	1761613.044	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-41	14866320.96	1761642.025	Channel 2	21.91	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	6	14866321.46	1761642.025	4	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-42	14866324.65	1761634.227	Channel 2	21.29	White's XLT	Cultural Debris	Wire	1	Wire		8	14866324.65	1761633.56	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-101-43	14866283.04	1761568.717	Channel 2	21.05	White's XLT	Seed	Grid Corner Nail	1	Grid Corner Nail		0	14866283.04	1761568.717	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-101-44	14866289.74	1761581.375	Channel 2	17.67	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	4	14866289.74	1761581.708	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-45	14866296.01	1761597.361	Channel 2	16.90	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	0.01	12	14866297.01	1761597.361	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-46	14866305.5	1761607.991	Channel 2	14.44	White's XLT	Cultural Debris	Asphalt	1	Asphalt	0.1	7	14866305.5	1761608.574	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-47	14866286.4	1761598.753	Channel 2	11.35	White's XLT	Cultural Debris	Nail	1	Nail	0.01	12	14866287.4	1761598.753	6	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-48	14866287.2	1761578.622	Channel 2	10.72	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	12	14866287.91	1761579.329	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-49	14866289	1761577.999	Channel 2	10.49	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	12	14866289.71	1761578.706	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-5	14866315.23	1761621.461	Channel 2	494.80	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		19	14866315.23	1761623.044	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-101-50	14866312.67	1761638.948	Channel 2	10.26	White's XLT	Cultural Debris	Concrete	1	Concrete		7	14866313.25	1761638.948	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-101-51	14866293.97	1761595.159	Channel 2	9.68	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	0.01	12	14866294.97	1761595.159	2	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-52	14866284.08	1761581.506	Channel 2	9.15	White's XLT	Cultural Debris	Nail	1	Nail	0.01	12	14866283.37	1761582.213	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-53	14866294.65	1761587.05	Channel 2	7.88	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	12	14866293.94	1761587.757	4	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-54	14866298.31	1761597.275	Channel 2	7.85	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	0.01	3	14866298.56	1761597.275	4	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-55	14866309.6	1761611.689	Channel 2	7.84	White's XLT	Cultural Debris	Metal Scrap	1	handle and metal scrap	0.5	12	14866310.6	1761611.689	4	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-56	14866297.54	1761599.013	Channel 2	7.34	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	0.01	3	14866297.79	1761599.013	4	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-57	14866296.79	1761586.426	Channel 2	7.17	White's XLT	Cultural Debris	Nail	1	Nail	0.01	18	14866297.85	1761587.487	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-6-1	14866287.88	1761606.24	Channel 2	464.49	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		18	14866286.82	1761607.301	1	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-101-6-2	14866287.88	1761606.24	Channel 2	464.49	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	3	12	14866287.88	1761607.24	1	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-7	14866304.43	1761617.911	Channel 2	397.48	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		12	14866305.14	1761617.204	6	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-101-8	14866296.13	1761612.223	Channel 2	269.41	White's XLT	Cultural Debris	Wire	1	Wire	0.01	12	14866297.13	1761612.223	3	4/28/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-101-9	14866313.15	1761624.527	Channel 2	269.01	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		18	14866313.15	1761623.027	0	4/28/2012	Dan Hains	Left in place
1926 Explosion Radius	26OR-102-401	14868311.61	1761493.633	Mag & Dig	Analog	White's XLT	Cultural Debris	2" x 8" Pipe	1	2" x 8" Pipe	0.5	NA	-	-	4	4/29/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius	26OR-102-402	14868343.42	1761485.591	Mag & Dig	Analog	White's XLT	Small Arms	Ball Ammunition	1	Ball Ammunition	0.01	NA	-	-	12	4/29/2012	Dan Hains	Transferred to PTA

Project Name:	Picatinny Arsenal	Geophysical Contractor:	WESTON
Project Location:	Picatinny, NJ	Project Geophysicist:	Ryan Steigerwalt
Date:	7/11/2012	Site Geophysicist:	Paul Novak
Coordinate System:	UTM 18N		
MRS:	1926 Explosion Radius - Off Post	USACE Geophysicist:	Megan Garrett

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius - Off Post	26OR-056-401	14872343.93	1771171.301	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-056-402	14872351.64	1771162.732	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	3	Nail	0.02	NA	-	-	3	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-057-401	14871955.02	1770711.187	Mag & Dig	Analog	White's XLT	Small Arms	Shotgun Primer	1	civilan 12 ga. shotgun shell base	0.01	NA	-	-	2	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-057-402	14871996.05	1770725.776	Mag & Dig	Analog	White's XLT	Small Arms	Shotgun Primer	1	civilan 12 ga. shotgun shell base	0.01	NA	-	-	3	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-057-403	14871958.13	1770734.743	Mag & Dig	Analog	White's XLT	Small Arms	Shotgun Primer	1	civilan 12 ga. shotgun shell base	0.01	NA	-	-	2	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-057-404	14871990.76	1770706.949	Mag & Dig	Analog	White's XLT	Small Arms	Shotgun Primer	1	civilan 12 ga. shotgun shell base	0.01	NA	-	-	4	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-057-405	14871983.17	1770697.863	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	6	Nail Pit	0.1	NA	-	-	6	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-061-401	14871688.23	1770664.397	Mag & Dig	Analog	White's XLT	Small Arms	Shotgun Primer	1	civilan 12 ga. shotgun shell base	0.01	NA	-	-	2	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-401	14866384.44	1764978.087	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.	3	NA	-	-	3	4/26/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-061-403	14871673.6	1770653.432	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-061-404	14871699.19	1770669.863	Mag & Dig	Analog	White's XLT	Small Arms	Shotgun Primer	1	civilan 12 ga. shotgun cartridge base	0.01	NA	-	-	3	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-062-401	14871773.36	1771106.369	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Body	4	NA	-	-	1	5/9/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius - Off Post	26OR-062-402	14871778.18	1771133.376	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	2	5/9/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-062-403	14871789.78	1771126.342	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	5" Base plate	5	NA	-	-	1	5/9/2012	William Sturm	Verified as MDAS/Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-401	14865589.86	1764668.326	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	penny	0.01	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-402	14865589.18	1764663.938	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	2	Nail	0.01	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-403	14865610.64	1764653.369	Mag & Dig	Analog	White's XLT	Cultural Debris	Bottle Top	1	Bottle Top	0.01	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-404	14865610.64	1764653.369	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	soda can	0.02	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-405	14865585.25	1764672.838	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	2	Nail	0.02	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-406	14865592.22	1764665.132	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	washer	0.1	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-407	14865581.59	1764670.095	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-408	14865581.57	1764664.568	Mag & Dig	Analog	White's XLT	Cultural Debris	Bottle Top	1	Bottle Top	0.01	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-409	14865570.64	1764664.627	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-410	14865613.08	1764648.319	Mag & Dig	Analog	White's XLT	Cultural Debris	Bottle Top	1	Bottle Top	0.01	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-411	14865603.33	1764647.885	Mag & Dig	Analog	White's XLT	Cultural Debris	Bottle Top	1	Bottle Top	0.02	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-412	14865599.6	1764631.328	Mag & Dig	Analog	White's XLT	Cultural Debris	Bottle Top	1	Bottle Top	0.01	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-413	14865596	1764639.636	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-414	14865585.19	1764661.787	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-415	14865581.53	1764656.284	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-416	14865570.57	1764650.816	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0.01	NA	-	-	3	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-417	14865569.76	1764637.644	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	tin can	0.01	NA	-	-	4	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-418	14865599.6	1764631.328	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	3	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-419	14865595.72	1764628.956	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	5	Nail	0.01	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-420	14865587.37	1764670.366	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.02	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-421	14865595.99	1764636.874	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-402	14866377.15	1764975.365	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	4	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-423	14865581.44	1764639.708	Mag & Dig	Analog	White's XLT	Cultural Debris	Bottle Top	1	Bottle Top	0.01	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-424	14865592.37	1764639.655	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-425	14865603.3	1764642.361	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	beer can	0.1	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-426	14865596.04	1764645.161	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0.01	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-427	14865585.12	1764647.976	Mag & Dig	Analog	White's XLT	Cultural Debris	Bottle Top	1	Bottle Top	0	NA	-	-	0	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-428	14865574.19	1764648.035	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	bb grill top	1	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-429	14865574.19	1764648.035	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-430	14865592.48	1764661.752	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	8	Nail Pit	0.1	NA	-	-	0	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-431	14865555.97	1764645.367	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0.01	NA	-	-	8	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-432	14865563.63	1764641.258	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-433	14865563.63	1764641.258	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	6	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-434	14865563.31	1764656.375	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	4	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-435	14865577.97	1764672.876	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-436	14865581.58	1764667.33	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Boyscout Knife	0.1	NA	-	-	8	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-403	14866377.15	1764975.365	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	4	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-404	14866384.41	1764972.562	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-066-401	14866299.59	1764106.712	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	4	5/2/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-066-402	14866307.08	1764141.969	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	5/2/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-066-403	14866290.29	1764129.089	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	6	5/2/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-066-404	14866310.83	1764119.432	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	4	5/2/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-066-405	14866321.67	1764102.807	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	NA	-	-	6	5/2/2012	Jan Lutz	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-067-401	14865736.87	1764409.646	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-067-402	14865700.35	1764390.498	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	3	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-067-403	14865692.6	1764397.317	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.01	NA	-	-	6	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-067-404	14865695.34	1764393.8	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	3	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-067-405	14865697.53	1764390.546	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	4	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-067-406	14865718.32	1764418.393	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	4	4/27/2012	Dan Hains	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius - Off Post	26OR-067-407	14865722.72	1764420.486	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	6	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-067-408	14865715.02	1764409.759	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-067-409	14865713.39	1764415.562	Mag & Dig	Analog	White's XLT	Cultural Debris	Horseshoe	1	Horseshoe	2	NA	-	-	3	4/27/2012	Dan Hains	Transferred to PTA Archaeologist
1926 Explosion Radius - Off Post	26OR-067-410	14865707.66	1764395.982	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	4	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-067-411	14865700.42	1764404.306	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.01	NA	-	-	3	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-067-412	14865729.52	1764398.633	Mag & Dig	Analog	White's XLT	Cultural Debris	Horseshoe	1	Horseshoe	0.5	NA	-	-	3	4/27/2012	Dan Hains	Transferred to PTA Archaeologist
1926 Explosion Radius - Off Post	26OR-067-413	14865711.3	1764395.964	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	5	Metal Scrap	0.02	NA	-	-	3	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-067-414	14865694.95	1764404.542	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	4	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-067-415	14865725.85	1764393.127	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	4	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-067-416	14865705.86	1764410.607	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	0.02	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-405	14866377.16	1764978.127	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	3	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-406	14866377.12	1764969.841	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	metal rod 12 in	0.1	NA	-	-	3	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-407	14866373.44	1764964.332	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	4	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-408	14866373.39	1764953.284	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	6	4/26/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-068-409	14866366.08	1764947.8	Mag & Dig	Analog	White's XLT	Cultural Debris	Vehicle Part	6	Vehicle Part		NA	-	-	2	4/26/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-068-410	14866358.79	1764947.835	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	3	Nail	0.01	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-411	14866362.42	1764945.054	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	1	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-412	14866366	1764933.987	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/26/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-068-413	14866362.33	1764927.424	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	4	Nail	0.1	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-414	14866351.47	1764939.586	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	2	Nail	0.01	NA	-	-	1	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-415	14866347.87	1764947.894	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-065-401	14867004.78	1764499.808	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/26/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-068-416	14866351.52	1764950.637	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	3	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-417	14866355.21	1764958.905	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-418	14866362.49	1764958.865	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	1	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-419	14866336.93	1764945.188	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.	5	NA	-	-	2	4/26/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-068-420	14866355.22	1764961.667	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-421	14866362.53	1764967.151	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-422	14866362.57	1764972.678	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-423	14866362.57	1764972.678	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-424	14866366.19	1764969.897	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-425	14866370.89	1764968.726	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-426	14866366.38	1764977.161	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/26/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-068-427	14866366.38	1764977.161	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-428	14866358.96	1764980.983	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/26/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-065-402	14866999.9	1764475.604	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/26/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-068-429	14866372.78	1764972.937	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	2	Nail	0.01	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-401	14866047.47	1766018.411	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	1	4/27/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-068-430	14866370.26	1764979.137	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	horn ring	0.1	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-431	14866366.99	1764980.856	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/26/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-072-402	14866043.8	1766012.906	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/27/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-068-432	14866351.69	1764976.836	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-433	14866351.69	1764976.836	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-434	14866358.91	1764969.932	Mag & Dig	Analog	White's XLT	Cultural Debris	Spoon	1	Spoon	0.01	NA	-	-	1	4/26/2012	Dan Hains	Transferred to PTA Archaeologist
1926 Explosion Radius - Off Post	26OR-068-435	14866355.28	1764972.713	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	0	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-436	14866355.11	1764939.57	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	3	Nail	0.01	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-437	14866351.52	1764950.637	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-438	14866344.18	1764939.627	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	2	Nail	0.01	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-439	14866344.18	1764939.627	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-440	14866344.17	1764936.865	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-441	14866344.31	1764964.483	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-442	14866344.31	1764964.483	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	2	Nail	0.02	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-443	14866351.54	1764953.397	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-444	14866355.28	1764972.713	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	3	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-445	14866355.28	1764972.713	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	3	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-446	14866355.28	1764972.713	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	6	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-447	14866355.31	1764978.237	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-448	14866355.32	1764981.002	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-449	14866358.04	1764977.231	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-450	14866358.2	1764974.924	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	4	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-451	14866362.77	1764978.071	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	5	Nail	0.02	NA	-	-	4	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-068-452	14866347.38	1764977.424	Mag & Dig	Analog	White's XLT	Cultural Debris	Rebar	1	Rebar		NA	-	-	0	4/26/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-069-401	14866855.61	1765077.824	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	4	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-070-401	14866620.04	1765463.01	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	2	Nail	0.01	NA	-	-	1	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-070-402	14866609.1	1765460.302	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	2	Nail	0.01	NA	-	-	0	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-070-403	14866601.76	1765449.294	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	1	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-070-404	14866627.21	1765440.873	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.02	NA	-	-	3	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-070-405	14866630.87	1765443.619	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	3	Nail	0.01	NA	-	-	3	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-070-406	14866620.07	1765468.531	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-070-407	14866609.03	1765446.491	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	4	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-070-408	14866619.97	1765449.199	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-070-409	14866634.5	1765440.835	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	1	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-071-401	14866424.45	1765671.181	Mag & Dig	Analog	White's XLT	Cultural Debris	Horseshoe	1	Horseshoe	1	NA	-	-	3	4/26/2012	Dan Hains	Transferred to PTA Archaeologist

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius - Off Post	26OR-071-402	14866406.22	1765668.516	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-071-403	14866417.21	1765679.508	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-071-404	14866435.32	1765660.079	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	nut	0.1	NA	-	-	3	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-071-405	14866438.17	1765687.813	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	4	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-071-406	14866431.73	1765671.146	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-071-407	14866434.57	1765666.303	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	2	Nail	0.02	NA	-	-	3	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-071-408	14866424.39	1765660.136	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	4	Nail	0.1	NA	-	-	6	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-071-409	14866420.74	1765657.39	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	2	Nail	0.01	NA	-	-	6	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-071-410	14866413.16	1765654.99	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	4	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-071-411	14866417.11	1765660.173	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-071-412	14866431.89	1765701.526	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	nut	0.1	NA	-	-	4	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-071-413	14866431.89	1765701.526	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	4	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-071-414	14866435.52	1765698.748	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-071-415	14866424.54	1765687.754	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	4	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-071-416	14866428.2	1765693.259	Mag & Dig	Analog	White's XLT	Cultural Debris	Archaeological	1	Spike	1	NA	-	-	8	4/26/2012	Dan Hains	Transferred to PTA Archaeologist
1926 Explosion Radius - Off Post	26OR-072-412	14866011.05	1766018.603	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/27/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-073-403	14865833.73	1766285.13	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/27/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-072-403	14866040.18	1766015.69	Mag & Dig	Analog	White's XLT	Cultural Debris	Cultural Feature	1	rock wall		NA	-	-	0	4/27/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-072-404	14866025.63	1766021.29	Mag & Dig	Analog	White's XLT	Cultural Debris	Cultural Feature	1	rock wall		NA	-	-	0	4/27/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-072-405	14866006.77	1766035.599	Mag & Dig	Analog	White's XLT	Cultural Debris	Cultural Feature	1	rock wall		NA	-	-	0	4/27/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-072-406	14866025.49	1765993.668	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-407	14865987.38	1766004.393	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-408	14865987.38	1766004.393	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-409	14865996.47	1766015.917	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-410	14866000.11	1766015.898	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-411	14866007.38	1766013.095	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-073-407	14865848.54	1766284.619	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	0	4/27/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-072-413	14866003.77	1766018.638	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	spike	1	NA	-	-	3	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-414	14866003.81	1766026.925	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-415	14866018.42	1766035.135	Mag & Dig	Analog	White's XLT	Cultural Debris	Horseshoe	1	Horseshoe	1.5	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA Archaeologist
1926 Explosion Radius - Off Post	26OR-072-416	14866024.18	1765983.336	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-417	14866022.07	1765982.505	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-418	14866022.07	1765982.505	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-419	14866012.6	1765991.476	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-420	14866025.48	1765990.906	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	4	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-421	14866025.68	1766029.576	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	0.02	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-422	14866000.09	1766010.374	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-423	14866014.74	1766026.871	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-424	14866011.07	1766021.365	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-425	14866025.55	1766004.717	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	0	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-426	14866025.55	1766004.717	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	0	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-427	14866010.94	1765996.506	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	0	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-428	14865992.57	1766016.224	Mag & Dig	Analog	White's XLT	Cultural Debris	Archaeological	1	Button	0	NA	-	-	3	4/27/2012	Dan Hains	Transferred to PTA Archaeologist
1926 Explosion Radius - Off Post	26OR-072-429	14866010.95	1765999.268	Mag & Dig	Analog	White's XLT	Cultural Debris	Archaeological	1	Toy gun	0.1	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA Archaeologist
1926 Explosion Radius - Off Post	26OR-072-430	14866018.29	1765985.543	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt with nut	0.5	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-431	14866014.68	1766015.822	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	0	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-432	14865992.8	1766010.409	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-433	14866003.74	1766013.114	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-434	14865989.12	1766002.144	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	3	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-435	14866021.99	1766021.306	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	4	Nail	0.02	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-436	14865996.25	1766002.14	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-072-437	14865999.4	1765998.304	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-073-401	14865855.91	1766301.157	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	4	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-073-402	14865841.14	1766262.562	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	3	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-074-401	14865483.58	1766140.12	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	6	4/27/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-073-404	14865863.02	1766267.973	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	4	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-073-405	14865852.1	1766268.027	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	4	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-073-406	14865855.64	1766248.673	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	4	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-063-422	14865581.43	1764636.949	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	3	4/27/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-073-408	14865859.53	1766295.613	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-073-409	14865881.25	1766270.64	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-073-410	14865879.15	1766266.859	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	shovel	2	NA	-	-	0	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-073-411	14865841.27	1766287.419	Mag & Dig	Analog	White's XLT	Cultural Debris	Horseshoe	1	Horseshoe	0.5	NA	-	-	6	4/27/2012	Dan Hains	Transferred to PTA Archaeologist
1926 Explosion Radius - Off Post	26OR-073-412	14865848.37	1766251.476	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	3	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-073-413	14865842.81	1766245	Mag & Dig	Analog	White's XLT	Cultural Debris	Archaeological	1	Other Archaeological Item	0.01	NA	-	-	6	4/27/2012	Dan Hains	Transferred to PTA Archaeologist
1926 Explosion Radius - Off Post	26OR-073-414	14865843.81	1766245.022	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-073-415	14865844.78	1766262.543	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	4	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-073-416	14865859.44	1766279.04	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-073-417	14865844.86	1766276.351	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-061-402	14871706.37	1770650.494	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot rock		NA	-	-	2	5/9/2012	William Sturm	Left in place
1926 Explosion Radius - Off Post	26OR-074-402	14865430.02	1766123.403	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-074-403	14865430.02	1766123.403	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-074-404	14865461.68	1766131.95	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius - Off Post	26OR-074-405	14865461.68	1766131.95	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-074-406	14865454.34	1766120.937	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-074-407	14865479.95	1766142.902	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	6	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-074-408	14865476.7	1766149.029	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	food cans	0.02	NA	-	-	6	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-074-409	14865433.22	1766119.787	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.02	NA	-	-	3	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-074-410	14865450.69	1766118.196	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	4	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-074-411	14865433.77	1766119.572	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	SODA CAN	0.01	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-074-412	14865461.63	1766120.902	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-074-413	14865461.75	1766112.407	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-074-414	14865461.75	1766112.407	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-074-415	14865461.82	1766157.592	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	TRASH PIT		NA	-	-	15	4/27/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-074-416	14865458.2	1766162.351	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Trash pit		NA	-	-	8	4/27/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-074-417	14865472.63	1766134.653	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	NA	-	-	6	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-074-418	14865468.39	1766122.242	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	4	4/27/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-074-419	14865465.32	1766131.931	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	4	4/27/2012	Dan Hains	Left in place
1926 Explosion Radius - Off Post	26OR-075-401	14865280.2	1766161.893	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0.01	NA	-	-	0	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-075-402	14865277.06	1766161.531	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	3	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-075-403	14865268.65	1766130.19	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	0	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-075-404	14865279.53	1766121.846	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	6	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-075-405	14865301.18	1766149.21	Mag & Dig	Analog	White's XLT	Cultural Debris	Bottle Top	1	Bottle Top	0.01	NA	-	-	0	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-075-406	14865290.65	1766155.458	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	exterior water tap. [faucet]	1	NA	-	-	3	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-075-407	14865294.28	1766157.679	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	cap gun	1	NA	-	-	4	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-075-408	14865304.08	1766143.143	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	metal ring	0.1	NA	-	-	4	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-075-409	14865257.75	1766135.774	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	0.5	NA	-	-	4	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-075-410	14865261.4	1766138.514	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-075-411	14865276.03	1766149.488	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	1	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-075-412	14865276.07	1766157.774	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	4	Metal Scrap	1	NA	-	-	1	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-075-413	14865305.54	1766148.375	Mag & Dig	Analog	White's XLT	Cultural Debris	Bottle Top	1	Bottle Top	0.01	NA	-	-	1	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-075-414	14865300.55	1766138.546	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	spark plug	0.1	NA	-	-	2	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-075-415	14865299.81	1766133.478	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	NA	-	-	2	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-075-416	14865279.63	1766141.185	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.1	NA	-	-	2	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-075-417	14865286.82	1766124.574	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Hot Rock		NA	-	-	3	5/10/2012	William Sturm	Left in place
1926 Explosion Radius - Off Post	26OR-075-418	14865294.11	1766124.533	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	0.1	NA	-	-	1	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-075-419	14865290.43	1766116.265	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	large piece of metal scrap		NA	-	-	8	5/10/2012	William Sturm	Left in place
1926 Explosion Radius - Off Post	26OR-075-420	14865283.33	1766152.215	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	metal rod bent in a 90 degree ale	1	NA	-	-	4	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-075-421	14865290.51	1766132.841	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-075-422	14865255.72	1766142.726	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-075-423	14865276.06	1766155.015	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	2	Foil	0.01	NA	-	-	3	5/10/2012	William Sturm	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-103-401	14866935.89	1764772.038	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	can lid	0.1	NA	-	-	2	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-103-402	14866911.28	1764732.305	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	3	Nail	0.01	NA	-	-	1	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-103-403	14866914.37	1764741.802	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0	NA	-	-	0	4/26/2012	Dan Hains	Transferred to PTA
1926 Explosion Radius - Off Post	26OR-103-404	14866904.01	1764732.017	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0	NA	-	-	1	4/26/2012	Dan Hains	Transferred to PTA

Project Name:	Picatinny Arsenal	Geophysical Contractor:	WESTON
Project Location:	Picatinny, NJ	Project Geophysicist:	Ryan Steigerwalt
Date:	11/20/2012	Site Geophysicist:	Nicole Sharkey
Coordinate System:			
MRS:	AOI Code 300 Area	USACE Geophysicist:	Megan Garrett

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
1926 Explosion Radius	Code300-01-01	14871610.87320	1759344.34334	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	2	Barbed-wire	0.1	0	-	-	3	9/24/2012	Dave McFadden	Left in place
1926 Explosion Radius	Code300-01-02	14871597.81090	1759354.34927	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	0	-	-	6	9/24/2012	Dave McFadden	Verified as MDAS/Transferred for disposal
1926 Explosion Radius	Code300-01-03	14871618.91150	1759349.55069	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	0.01	0	-	-	2	9/24/2012	Dave McFadden	Verified as MDAS/Transferred for disposal
1926 Explosion Radius	Code300-01-04	14871627.15480	1759322.44690	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable	1	0	-	-	0	9/24/2012	Dave McFadden	Verified as MDAS/Transferred for disposal
1926 Explosion Radius	Code300-02-01	14871260.52460	1759274.82012	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Debris too large to clear.	4.5	0	-	-	0	9/24/2012	Dave McFadden	Left in place
1926 Explosion Radius	Code300-02-02	14871232.94990	1759296.22014	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Debris too large to clear.	0	0	-	-	0	9/24/2012	Dave McFadden	Left in place
1926 Explosion Radius	Code300-02-03	14871228.88120	1759283.53684	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Debris too large to clear.	0	0	-	-	0	9/24/2012	Dave McFadden	Left in place
1926 Explosion Radius	Code300-02-04	14871288.16170	1759266.12314	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Debris too large to clear.	0	0	-	-	0	9/24/2012	Dave McFadden	Left in place
1926 Explosion Radius	Code300-02-05	14871237.24150	1759280.18177	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Debris too large to clear.	0	0	-	-	0	9/24/2012	Dave McFadden	Left in place
1926 Explosion Radius	Code300-02-06	14871230.67360	1759277.72867	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Debris too large to clear.	0	0	-	-	0	9/24/2012	Dave McFadden	Left in place
1926 Explosion Radius	Code300-02-07	14871155.19820	1759260.70215	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Debris too large to clear.	0	0	-	-	0	9/24/2012	Dave McFadden	Left in place
1926 Explosion Radius	Code300-02-08	14871191.23110	1759255.83006	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Debris too large to clear.	0	0	-	-	0	9/24/2012	Dave McFadden	Left in place
1926 Explosion Radius	Code300-02-09	14871171.21360	1759258.69019	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Debris too large to clear.	0	0	-	-	0	9/24/2012	Dave McFadden	Left in place
1926 Explosion Radius	Code300-02-10	14871171.97870	1759266.14275	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Metal Scrap	0.1	0	-	-	2	9/24/2012	Dave McFadden	Verified as MDAS/Transferred for disposal
1926 Explosion Radius	Code300-02-11	14871241.67170	1759292.31097	Mag & Dig	Analog	White's XLT	Munitions Debris	Projectile	1	105mm Projectile empty shell; located outside of grid	20	0	-	-	0	9/24/2012	Dave McFadden	Verified as MDAS/Transferred for disposal
1926 Explosion Radius	Code300-03-01	14873513.58020	1761773.22926	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	20	Metal Scrap	30	0	-	-	0	9/26/2012	Dave McFadden	Verified as MDAS/Transferred for disposal
1926 Explosion Radius	Code300-04-01	14872344.91160	1759005.48529	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	1	0	-	-	1	9/25/2012	Dave McFadden	Verified as MDAS/Transferred for disposal
1926 Explosion Radius	Code300-05-01	14872969.90850	1759673.15797	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	7	Metal Scrap	1.5	0	-	-	0	9/26/2012	Dave McFadden	Verified as MDAS/Transferred for disposal
1926 Explosion Radius	Code300-06-01	14874156.52440	1760484.62877	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	0	-	-	0	9/25/2012	Dave McFadden	Verified as MDAS/Transferred for disposal
1926 Explosion Radius	Code300-07-01	14874770.04680	1763415.62198	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	20	Metal Scrap	4.5	0	-	-	0	9/26/2012	Dave McFadden	Verified as MDAS/Transferred for disposal
1926 Explosion Radius	Code300-08-01	14875748.29220	1762333.53745	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	2	0	-	-	0	9/25/2012	Dave McFadden	Verified as MDAS/Transferred for disposal
1926 Explosion Radius	Code300-11-01	14873853.88730	1761364.50291	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	1.5	0	-	-	0	9/27/2012	Dave McFadden	Left in place
Inactive Munitions Waste Pit	Code300-12-01	14878082.31820	1764860.87039	Mag & Dig	Analog	White's XLT	Munitions Debris	Other MD	1	M42 Body, Empty	0.5	0	-	-	3	9/26/2012	Dave McFadden	Verified as MDAS/Transferred for disposal
Inactive Munitions Waste Pit	Code300-12-02	14878070.50460	1764900.68717	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	12	Metal Scrap	10	0	-	-	0	9/26/2012	Dave McFadden	Left in place
Inactive Munitions Waste Pit	Code300-12-03	14878081.07500	1764902.28913	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	10	0	-	-	0	9/26/2012	Dave McFadden	Left in place
Former Operational Areas	Code300-13-01	14870365.54280	1757611.71662	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	0.1	0	-	-	0	9/27/2012	Dave McFadden	Verified as MDAS/Transferred for disposal

Project Name:	Picatinny Arsenal	Geophysical Contractor:	WESTON
Project Location:	Picatinny, NJ	Project Geophysicist:	Ryan Steigerwalt
Date:	7/11/2012	Site Geophysicist:	Paul Novak
Coordinate System:	UTM 18N		
MRS:	Former Operational Area	USACE Geophysicist:	Megan Garrett

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	2024-0-1	14863699.38	1755595.95	Channel 2	78.40	White's XLT	Munitions Debris	Grenade	1	Rifle Grenade, Functioned	1	0	14863699.38	1755595.95	8	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-0-2	14863699.38	1755595.95	Channel 2	78.40	White's XLT	Munitions Debris	Flare	1	Flare, Expended, Functioned	0.1	0	14863699.38	1755595.95	8	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-1	14863702.35	1755593.73	Channel 2	99.66	White's XLT	Munitions Debris	Flare	1	Flare, Expended, Red Star Cluster, expended	1	0	14863702.35	1755593.73	8	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-10	14863772.17	1755516.2	Channel 2	8.39	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.5	0	14863772.17	1755516.2	8	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-100	14863718.06	1755220.06	Channel 2	27.60	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863718.06	1755220.06	0	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-101	14863722.47	1755205.95	Channel 2	11.58	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863722.47	1755205.95	0	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-102	14863723.9	1755190.81	Channel 2	10.00	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14863723.9	1755190.81	6	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-103	14863728.4	1755176.6	Channel 2	41.78	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		0	14863728.4	1755176.6	6	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-104	14863738.88	1755144.48	Channel 2	55.57	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		0	14863738.88	1755144.48	6	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-105-1	14863739	1755134.29	Channel 2	48.46	White's XLT	Munitions Debris	Flare	1	Flare, Expended with tail boom	0.1	0	14863739	1755134.29	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-105-2	14863739	1755134.29	Channel 2	48.46	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		0	14863739	1755134.29	6	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-106	14863739.67	1755122.35	Channel 2	23.88	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863739.67	1755122.35	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-107	14863740.83	1755116.75	Channel 2	11.30	White's XLT	Geology	Hot Rock	5	Hot Rock. Debris too large to clear.		0	14863740.83	1755116.75	6	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-108-1	14863747	1755094.02	Channel 2	784.92	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863747	1755094.02	0	5/17/2012	Eric Kidder	Left in place
Former Operational Area	2024-108-2	14863747	1755094.02	Channel 2	784.92	White's XLT	Cultural Debris	Foil	1	Foil	0.01	0	14863747	1755094.02	2	5/17/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-109	14864423.87	1755224.21	Channel 2	25.34	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	1	14864423.93	1755224.269	3	5/4/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-11	14863781.7	1755500.33	Channel 2	47.75	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14863781.7	1755500.33	6	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-110	14864402.78	1755212.47	Channel 2	29.29	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	2	14864402.9	1755212.588	2	5/4/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-111-1	14864394.42	1755205.17	Channel 2	22.29	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	2	14864394.54	1755205.288	9	5/4/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-111-2	14864394.42	1755205.17	Channel 2	22.29	White's XLT	Cultural Debris	Metal Scrap	1	nut	0.1	23	14864395.78	1755206.525	6	5/4/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-112	14864388.06	1755200.45	Channel 2	44.49	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.5	0	14864388.06	1755200.45	1	5/4/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-113	14864377.18	1755192.08	Channel 2	88.04	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.5	0	14864377.18	1755192.08	1	5/4/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-114	14864363.97	1755176.03	Channel 2	14.80	White's XLT	Cultural Debris	Metal Scrap	1	washer	0.01	2	14864364.09	1755176.148	3	5/4/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-115	14864348.84	1755172	Channel 2	11.43	White's XLT	Small Arms	Casing	1	Casing	0.01	6	14864348.84	1755172.5	4	5/4/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-116	14863769.81	1755626.06	Channel 2	33.27	White's XLT	Munitions Debris	Canister	1	40mm, Illumination, expended	0.1	0	14863769.81	1755626.06	1	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-117	14863772.44	1755609.23	Channel 2	34.88	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14863772.44	1755609.23	3	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-118	14863790.48	1755597.05	Channel 2	19.09	White's XLT	UXO	SubMunition	1	M32/38/40 Blu 26b Submunition	0.1	0	14863790.48	1755597.05	3	5/13/2012	Eric Kidder	EOD Response and Disposition
Former Operational Area	2024-119	14863794.96	1755593.5	Channel 2	13.96	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14863794.96	1755593.5	2	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-12-1	14863787.63	1755490.63	Channel 2	26.33	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14863787.63	1755490.63	8	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-12-2	14863787.63	1755490.63	Channel 2	26.33	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		0	14863787.63	1755490.63	8	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-120-1	14863823.04	1755578.14	Channel 2	48.32	White's XLT	UXO	Mortar	1	Fuzed 60mm, White Phosphorous, Projectile	2	0	14863823.04	1755578.14	3	5/13/2012	Eric Kidder	EOD Response and Disposition
Former Operational Area	2024-120-2	14863823.04	1755578.14	Channel 2	48.32	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14863823.04	1755578.14	1	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-121	14863850.39	1755565.84	Channel 2	10.93	White's XLT	Munitions Debris	Flare	1	Illumination, Tail Boom	0.1	0	14863850.39	1755565.84	3	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-122	14863861	1755551.43	Channel 2	12.89	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	0.1	0	14863861	1755551.43	3	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-123	14863864.32	1755547.27	Channel 2	20.20	White's XLT	UXO	Mortar	1	Fuzed M438 81mm, Practice, Body	7	0	14863864.32	1755547.27	4	5/13/2012	Eric Kidder	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	2024-124	14863869.09	1755538.47	Channel 2	34.26	White's XLT	Geology	Hot Rock	3	Hot Rock. .Debris too large to clear.		0	14863869.09	1755538.47	4	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-125	14863872.27	1755531.78	Channel 2	151.83	White's XLT	Munitions Debris	Other MD	1	Lifting Lug off Projectile	1	0	14863872.27	1755531.78	2	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-126-1	14863873.37	1755526.67	Channel 2	95.93	White's XLT	Munitions Debris	Frag	1	40mm, Fragmentation, Components	0.1	0	14863873.37	1755526.67	2	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-126-2	14863873.37	1755526.67	Channel 2	95.93	White's XLT	Geology	Hot Rock	5	Hot Rock. Debris too large to clear.		0	14863873.37	1755526.67	4	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-126-3	14863873.37	1755526.67	Channel 2	95.93	White's XLT	UXO	Mortar	1	Fuzed M43 81mm mortar, Practice	7	0	14863873.37	1755526.67	6	5/13/2012	Eric Kidder	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	2024-127	14863886.86	1755504.31	Channel 2	116.46	White's XLT	Munitions Debris	Canister	1	ammunition container lid	1	0	14863886.86	1755504.31	4	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-128	14863888.68	1755500.83	Channel 2	21.27	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14863888.68	1755500.83	3	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-129	14863890.77	1755495.17	Channel 2	137.72	White's XLT	UXO	Mortar	1	Fuzed M43 81mm mortar, Practice	7	0	14863890.77	1755495.17	3	5/13/2012	Eric Kidder	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	2024-13	14863791.15	1755484.22	Channel 2	9.88	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.5	0	14863791.15	1755484.22	8	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-130	14863896.96	1755482.94	Channel 2	118.60	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14863896.96	1755482.94	3	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-131	14863900.54	1755476	Channel 2	34.70	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863900.54	1755476	4	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-132	14863905.5	1755467.61	Channel 2	36.40	White's XLT	UXO	Mortar	1	Fuzed M43 81mm mortar, Practice	7	0	14863905.5	1755467.61	6	5/13/2012	Eric Kidder	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	2024-133	14863923.3	1755439.52	Channel 2	824.61	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14863923.3	1755439.52	4	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-134	14863985.05	1755513.82	Channel 2	45.51	White's XLT	Munitions Debris	Flare	1	Illumination, Tail Boom	0.1	0	14863985.05	1755513.82	4	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-135	14863980.97	1755528.72	Channel 2	8.67	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14863980.97	1755528.72	4	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-136	14863972.4	1755542.49	Channel 2	14.59	White's XLT	Munitions Debris	Mortar	1	60mm, Illumination, Tail Boom	0.5	0	14863972.4	1755542.49	12	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-137	14863968.09	1755552.71	Channel 2	68.26	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14863968.09	1755552.71	8	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-138	14863964.01	1755561.32	Channel 2	28.76	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		0	14863964.01	1755561.32	2	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-139	14863950.35	1755584.06	Channel 2	84.18	White's XLT	Cultural Debris	Metal Scrap	2	Scrap Metal. Debris too large to clear.		0	14863950.35	1755584.06	6	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-14	14863797.19	1755476.34	Channel 2	112.52	White's XLT	Geology	Hot Rock	1	hot rock / hot soil		0	14863797.19	1755476.34	15	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-140	14863948.26	1755590.43	Channel 2	7.30	White's XLT	Cultural Debris	Can	1	Can		0	14863948.26	1755590.43	3	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-141	14863945.54	1755598.63	Channel 2	11.59	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14863945.54	1755598.63	3	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-142	14863941.13	1755610.8	Channel 2	37.78	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14863941.13	1755610.8	2	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-143	14863909.55	1755636.4	Channel 2	46.28	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14863909.55	1755636.4	4	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-144	14863905.1	1755647.84	Channel 2	554.26	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863905.1	1755647.84	3	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-145	14863899.66	1755656.81	Channel 2	77.68	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14863899.66	1755656.81	4	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-146	14863891.85	1755672.11	Channel 2	29.66	White's XLT	Cultural Debris	Foil	1	Foil		0	14863891.85	1755672.11	3	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-147	14863890.44	1755674.01	Channel 2	27.78	White's XLT	Munitions Debris	Mortar	1	60mm, Illumination, expended	0.5	0	14863890.44	1755674.01	3	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-148	14863886.49	1755679.13	Channel 2	243.83	White's XLT	Munitions Debris	Mortar	1	60mm, Illumination, expended	0.5	0	14863886.49	1755679.13	3	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-149	14863881.31	1755684.63	Channel 2	114.16	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14863881.31	1755684.63	0	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-15-1	14863802.1	1755469.56	Channel 2	156.74	White's XLT	UXO	Mortar	1	Fuzed 60mm Mortar	2	0	14863802.1	1755469.56	8	5/16/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	2024-15-2	14863802.1	1755469.56	Channel 2	156.74	White's XLT	Cultural Debris	Metal Scrap	4	Metal Scrap	1	0	14863802.1	1755469.56	8	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-15-3	14863802.1	1755469.56	Channel 2	156.74	White's XLT	Geology	Hot Rock	3	Geology		0	14863802.1	1755469.56	8	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-154	14863853.98	1755731.32	Channel 2	14.86	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863853.98	1755731.32	0	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-150	14863878.54	1755688.61	Channel 2	310.26	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14863878.54	1755688.61	0	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-151	14863872.42	1755698.69	Channel 2	37.41	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14863872.42	1755698.69	2	5/13/2012	Eric Kidder	Left in place

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	2024-152	14863863.61	1755710.74	Channel 2	47.43	White's XLT	Cultural Debris	Foil	1	Foil		0	14863863.61	1755710.74	3	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-153	14863859.19	1755719.2	Channel 2	23.63	White's XLT	Cultural Debris	Foil	1	Foil		0	14863859.19	1755719.2	0	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-15-4	14863802.1	1755469.56	Channel 2	156.74	White's XLT	Munitions Debris	Projectile	1	30mm, empty	0.5	0	14863802.1	1755469.56	8	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-155	14863905.36	1755825.32	Channel 2	30.55	White's XLT	Cultural Debris	Aluminum	1	Aluminum. Debris too large to clear.		0	14863905.36	1755825.32	6	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-156	14863913.11	1755818.27	Channel 2	30.97	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863913.11	1755818.27	8	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-157	14863923.48	1755804.45	Channel 2	18.50	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14863923.48	1755804.45	3	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-158	14863928.8	1755799.98	Channel 2	11.74	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863928.8	1755799.98	6	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-159	14863940.46	1755781.36	Channel 2	107.82	White's XLT	Munitions Debris	Mortar	1	4.2", Practice Mortar, expended	25	0	14863940.46	1755781.36	1	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-16-1	14863806.13	1755463.04	Channel 2	444.85	White's XLT	Cultural Debris	Metal Scrap	8	Metal Scrap	0.5	0	14863806.13	1755463.04	8	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-16-2	14863806.13	1755463.04	Channel 2	444.85	White's XLT	Munitions Debris	Other MD	2	Two Lug Lift Plugs	1.5	0	14863806.13	1755463.04	8	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-163	14863965.79	1755739.04	Channel 2	180.59	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863965.79	1755739.04	6	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-16-3	14863806.13	1755463.04	Channel 2	444.85	White's XLT	Munitions Debris	Other MD	2	unknown md	0.1	0	14863806.13	1755463.04	8	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-160	14863943.17	1755770.38	Channel 2	28.64	White's XLT	Cultural Debris	Metal Scrap	1	Too big to remove		0	14863943.17	1755770.38	6	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-161	14863944.63	1755767.3	Channel 2	23.44	White's XLT	Cultural Debris	Aluminum	1	Aluminum		0	14863944.63	1755767.3	12	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-162	14863958.93	1755744.71	Channel 2	2015.38	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14863958.93	1755744.71	0	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-164	14863971.63	1755731.84	Channel 2	26.08	White's XLT	Munitions Debris	Mortar	1	60mm, Illumination, Tail Boom	1	0	14863971.63	1755731.84	4	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-16-4	14863806.13	1755463.04	Channel 2	444.85	White's XLT	Munitions Debris	Other MD	1	Other MD. Debris too large to clear. Left in place with Corps approval		0	14863806.13	1755463.04	8	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-165	14863972.62	1755726.13	Channel 2	19.84	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14863972.62	1755726.13	4	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-166	14863974.71	1755718.49	Channel 2	166.46	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14863974.71	1755718.49	6	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-167	14863978.52	1755711.57	Channel 2	72.54	White's XLT	Cultural Debris	Aluminum	1	Aluminum		0	14863978.52	1755711.57	3	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-168	14863982.54	1755706.67	Channel 2	35.50	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14863982.54	1755706.67	4	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-169	14863990.67	1755695.39	Channel 2	10.99	White's XLT	Geology	Hot Rock	1	Geology		0	14863990.67	1755695.39	6	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-17	14863814.96	1755447.66	Channel 2	208.75	White's XLT	UXO	Mortar	1	Fuzed M438 81mm, Practice Mortar, Body	7	0	14863814.96	1755447.66	8	5/16/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	2024-170	14863995.9	1755690.57	Channel 2	46.76	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14863995.9	1755690.57	4	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-171	14864005.98	1755678.79	Channel 2	42.71	White's XLT	Munitions Debris	Fuze	1	Tail Boom	0.5	0	14864005.98	1755678.79	6	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-172	14864017.07	1755654.34	Channel 2	100.03	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14864017.07	1755654.34	2	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-173	14864021.79	1755645.61	Channel 2	17.94	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14864021.79	1755645.61	2	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-174	14864024.86	1755638.9	Channel 2	41.84	White's XLT	Munitions Debris	Mortar	1	60mm, Illumination, Tail Boom	1	0	14864024.86	1755638.9	4	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-175	14864033.92	1755623.44	Channel 2	140.89	White's XLT	Munitions Debris	Frag	1	Unknown MD	3	0	14864033.92	1755623.44	12	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-176	14864061.27	1755590.31	Channel 2	10.72	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14864061.27	1755590.31	4	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-177	14864043.33	1755609.69	Channel 2	31.10	White's XLT	Small Arms	Blank Ammunition	1	Blank Ammunition	0.01	0	14864043.33	1755609.69	4	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-178	14864103.98	1755648.57	Channel 2	30.51	White's XLT	Munitions Debris	Grenade	1	40mm, White Cluster Illumination, expended	0.1	0	14864103.98	1755648.57	4	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-179	14864088.09	1755664.19	Channel 2	18.27	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		0	14864088.09	1755664.19	6	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-18-1	14863818.94	1755439.2	Channel 2	67.07	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14863818.94	1755439.2	8	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-18-2	14863818.94	1755439.2	Channel 2	67.07	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		0	14863818.94	1755439.2	8	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-180	14864075.16	1755681.08	Channel 2	11.66	White's XLT	Cultural Debris	Nail	1	Nail	0.01	0	14864075.16	1755681.08	9	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-181	14864066.12	1755691.5	Channel 2	9.87	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14864066.12	1755691.5	9	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-182	14864061.7	1755701.51	Channel 2	40.75	White's XLT	Munitions Debris	Mortar	1	81mm, Illumination, Tail Boom	2	0	14864061.7	1755701.51	8	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-183	14864059.44	1755708.44	Channel 2	30.29	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14864059.44	1755708.44	4	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-184	14864055.38	1755721.89	Channel 2	47.70	White's XLT	Munitions Debris	Mortar	1	60mm, Illumination, expended	1.5	0	14864055.38	1755721.89	6	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-185	14864052.14	1755730.73	Channel 2	30.74	White's XLT	Small Arms	Blank Ammunition	1	Blank Ammunition	0.1	0	14864052.14	1755730.73	2	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-186	14864029.54	1755779.45	Channel 2	213.24	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1.5	0	14864029.54	1755779.45	6	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-187	14864012.18	1755813.13	Channel 2	40.76	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14864012.18	1755813.13	4	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-188	14864007.07	1755821.65	Channel 2	17.00	White's XLT	Munitions Debris	Mortar	1	60mm, Illumination, expended	2	0	14864007.07	1755821.65	3	5/13/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-189	14863997.87	1755832.68	Channel 2	19.64	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14863997.87	1755832.68	4	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-19-1	14863823.56	1755427.88	Channel 2	52.83	White's XLT	Munitions Debris	Flare	1	Body and tail	0.5	0	14863823.56	1755427.88	8	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-19-2	14863823.56	1755427.88	Channel 2	52.83	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14863823.56	1755427.88	8	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-19-3	14863823.56	1755427.88	Channel 2	52.83	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14863823.56	1755427.88	8	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-190	14863993.07	1755838.32	Channel 2	35.45	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14863993.07	1755838.32	4	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-191	14863983.95	1755848.54	Channel 2	15.88	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14863983.95	1755848.54	3	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-192	14863978.63	1755855.43	Channel 2	47.60	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14863978.63	1755855.43	6	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-193	14863975.87	1755858.32	Channel 2	26.08	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863975.87	1755858.32	3	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-194	14863967.97	1755871.04	Channel 2	7.48	White's XLT	Cultural Debris	Wire	1	Wire	0.1	0	14863967.97	1755871.04	3	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-195	14863691.05	1755604.37	Channel 2	10.91	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14863691.05	1755604.37	3	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-196	14863756.39	1755537.354	Channel 2	6.61	White's XLT	Cultural Debris	Pipe	1	Shared with target 9		0	14863756.39	1755537.354	3	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-197	14863784.98	1755495.18	Channel 2	11.50	White's XLT	Geology	Hot Rock	1	Geology		0	14863784.98	1755495.18	6	5/13/2012	Eric Kidder	Left in place
Former Operational Area	2024-198	14864390.06	1755124.531	Channel 2	16.34	White's XLT	No Contact		1	No Contact						5/13/2012	Eric Kidder	NA
Former Operational Area	2024-199	14864345.21	1755171.112	Channel 2	5.33	White's XLT	Cultural Debris	Nail	1	Nail	0.1	0	14864345.21	1755171.112	2	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-20	14863829.41	1755416.97	Channel 2	33.49	White's XLT	Munitions Debris	Grenade	1	Rifle Grenade, expended	2.5	0	14863829.41	1755416.97	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-2-2	14863709.09	1755590.55	Channel 2	53.46	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14863709.09	1755590.55	8	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-21	14863846.1	1755386.4	Channel 2	67.28	White's XLT	Munitions Debris	Mortar	1	Tail End of 81 mm Mortar	1	0	14863846.1	1755386.4	8	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-200	14863909.69	1755463.056	Channel 2	8.79	White's XLT	No Contact		1	No Contact						5/13/2012	Eric Kidder	NA
Former Operational Area	2024-201	14863846.05	1755746.44	Channel 2	699.04	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	0	14863846.05	1755746.44	0	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-202	14864015.56	1755809.258	Channel 2	7.06	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14864015.56	1755809.258	4	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-203	14864010.03	1755817.226	Channel 2	8.72	White's XLT	No Contact		1	No Contact						5/13/2012	Eric Kidder	NA
Former Operational Area	2024-204	14863987.01	1755845.78	Channel 2	10.04	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14863987.01	1755845.78	0.1	5/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	2024-205	14864361.49	1755150.177	Channel 2	4.38	White's XLT	No Contact		1	No Contact						5/13/2012	Eric Kidder	NA
Former Operational Area	2024-206	14864339.61	1755169.872	Channel 2	4.62	White's XLT	No Contact		1	No Contact						5/13/2012	Eric Kidder	NA
Former Operational Area	2024-207	14864413	1755219.109	Channel 2	3.28	White's XLT	No Contact		1	No Contact						5/13/2012	Eric Kidder	NA
Former Operational Area	2024-208	14863677.92	1755296.183	Channel 2	4.64	White's XLT	No Contact		1	No Contact						5/13/2012	Eric Kidder	NA
Former Operational Area	2024-209	14863879.25	1755517.979	Channel 2	6.31	White's XLT	No Contact		1	No Contact						5/13/2012	Eric Kidder	NA
Former Operational Area	2024-2-1	14863709.09	1755590.55	Channel 2	53.46	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.5	0	14863709.09	1755590.55	8	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-210	14864057.46	1755713.159	Channel 2	5.93	White's XLT	No Contact		1	No Contact						5/13/2012	Eric Kidder	NA
Former Operational Area	2024-211	14864039.42	1755758.204	Channel 2	2.26	White's XLT	No Contact		1	No Contact						5/13/2012	Eric Kidder	NA
Former Operational Area	2024-22	14863848.49	1755382.14	Channel 2	29.87	White's XLT	Munitions Debris	Fuze	1	Part of F2 Mortar	0.1	0	14863848.49	1755382.14	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-23	14863850.84	1755378.01	Channel 2	148.91	White's XLT	Cultural Debris	Metal Scrap	1	tin	0.1	0	14863850.84	1755378.01	8	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-24	14863863.11	1755353.22	Channel 2	8.63	White's XLT	Munitions Debris	Other MD	1	Base of Unknown MD	1	0	14863863.11	1755353.22	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-25	14864402.3	1755073.49	Channel 2	168.40	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	3	4	14864402.54	1755073.726	3	5/4/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-26	14864412.17	1755082.03	Channel 2	17.60	White's XLT	Cultural Debris	Metal Scrap	1	nut	0.02	2	14864412.29	1755082.148	3	5/4/2012	Rick Shellenbarger	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	2024-27	14864423.69	1755091.04	Channel 2	18.91	White's XLT	Cultural Debris	Metal Scrap	1	washer	0.01	3	14864423.87	1755091.217	4	5/4/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-28	14864450.97	1755103.01	Channel 2	49.03	White's XLT	Cultural Debris	Metal Scrap	1	washer		2	14864451.09	1755103.128	3	5/4/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-29-1	14863863.26	1755328.02	Channel 2	382.61	White's XLT	DMM	Mortar	1	Fuzed 60mm, High Explosive	4	0	14863863.26	1755328.02	8	5/16/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	2024-29-2	14863863.26	1755328.02	Channel 2	382.61	White's XLT	Munitions Debris	Catridge	12	Twelve 40mm Casings	0.1	0	14863863.26	1755328.02	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-29-3	14863863.26	1755328.02	Channel 2	382.61	White's XLT	Cultural Debris	Wire	1	Wire. Debris too large to clear.		0	14863863.26	1755328.02	8	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-30-1	14863862.47	1755323.21	Channel 2	191.15	White's XLT	DMM	Projectile	1	Fuzed 40mm, High Explosive	2	0	14863862.47	1755323.21	8	5/16/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	2024-3-2	14863717.05	1755588.04	Channel 2	44.27	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14863717.05	1755588.04	6	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-31	14863862.33	1755321.63	Channel 2	196.86	White's XLT	Munitions Debris	Flare	1	Body	0.1	0	14863862.33	1755321.63	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-30-2	14863862.47	1755323.21	Channel 2	191.15	White's XLT	Cultural Debris	Metal Scrap	1	Bounding Fragment	1	0	14863862.47	1755323.21	8	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-3-1	14863717.05	1755588.04	Channel 2	44.27	White's XLT	Munitions Debris	Flare	1	Piece of a Flare, Expended body	0.5	0	14863717.05	1755588.04	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-32	14863862.6	1755316.8	Channel 2	16.13	White's XLT	Munitions Debris	Flare	2	Tail	0.1	0	14863862.6	1755316.8	8	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-33-1	14863861.58	1755312.13	Channel 2	48.81	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	0	14863861.58	1755312.13	8	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-33-2	14863861.58	1755312.13	Channel 2	48.81	White's XLT	Cultural Debris	Metal Scrap	1	board with nails. Debris too large to clear.		0	14863861.58	1755312.13	18	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-34-1	14863861.56	1755310.42	Channel 2	45.61	White's XLT	Cultural Debris	Metal Scrap	4	Metal Scrap	1	0	14863861.56	1755310.42	12	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-34-2	14863861.56	1755310.42	Channel 2	45.61	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863861.56	1755310.42	8	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-4	14863728.63	1755578.4	Channel 2	53.11	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	1	0	14863728.63	1755578.4	6	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-42	14864481.7	1755164.19	Channel 2	24.38	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14864481.7	1755164.19	6	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-43	14864454.96	1755152.2	Channel 2	161.34	White's XLT	Munitions Debris	Mortar	1	81mm, Illumination Mortar, expended	10	7	14864455.37	1755152.612	15	5/4/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-44	14864412.42	1755131.76	Channel 2	20.73	White's XLT	Munitions Debris	Flare	1	Illumination, Empty Casing	0.5	18	14864413.48	1755132.821	6	5/4/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-45	14864403.24	1755128.02	Channel 2	54.32	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	24	14864401.24	1755128.02	6	5/4/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-46-1	14863816.57	1755262.46	Channel 2	13.68	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	1	0	14863816.57	1755262.46	6	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-46-2	14863816.57	1755262.46	Channel 2	13.68	White's XLT	Munitions Debris	Canister	1	40mm Smoke Canister, expended	1	0	14863816.57	1755262.46	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-46-3	14863816.57	1755262.46	Channel 2	13.68	White's XLT	Munitions Debris	Other MD	1	Unknown MD	0.1	0	14863816.57	1755262.46	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-46-4	14863816.57	1755262.46	Channel 2	13.68	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863816.57	1755262.46	6	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-47	14863814.7	1755269.08	Channel 2	70.12	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863814.7	1755269.08	1	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-48-1	14863813.66	1755271.45	Channel 2	59.98	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863813.66	1755271.45	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-48-2	14863813.66	1755271.45	Channel 2	59.98	White's XLT	Munitions Debris	Canister	2	40mm Smoke Canister, expended	0.1	0	14863813.66	1755271.45	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-48-3	14863813.66	1755271.45	Channel 2	59.98	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863813.66	1755271.45	6	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-49	14863805.47	1755287.36	Channel 2	44.56	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863805.47	1755287.36	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-50-2	14863801.21	1755296.27	Channel 2	55.81	White's XLT	Munitions Debris	Canister	1	40mm Smoke Canister	0.5	0	14863801.21	1755296.27	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-5-2	14863729.63	1755575.67	Channel 2	67.34	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14863729.63	1755575.67	6	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-50-1	14863801.21	1755296.27	Channel 2	55.81	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	1	0	14863801.21	1755296.27	6	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-51	14863798.78	1755302.47	Channel 2	39.58	White's XLT	Munitions Debris	Flare	1	Flare, Expended	0.1	0	14863798.78	1755302.47	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-5-1	14863729.63	1755575.67	Channel 2	67.34	White's XLT	Munitions Debris	Canister	1	Smoke Canister, expended	2	0	14863729.63	1755575.67	8	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-52	14863793.65	1755309.18	Channel 2	14.53	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863793.65	1755309.18	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-54	14863786.74	1755318.32	Channel 2	15.75	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863786.74	1755318.32	4	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-56	14863778.48	1755326.17	Channel 2	21.92	White's XLT	Munitions Debris	Projectile	1	40mm Illumination unit Flare, expended	0.1	0	14863778.48	1755326.17	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-55	14863782.6	1755323.31	Channel 2	37.80	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		0	14863782.6	1755323.31	6	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-57-1	14863773.06	1755330.64	Channel 2	26.99	White's XLT	Munitions Debris	Canister	1	40mm Smoke Canister, expended	0.5	0	14863773.06	1755330.64	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-57-2	14863773.06	1755330.64	Channel 2	26.99	White's XLT	Munitions Debris	Flare	2	Flare, Expended, expended	0.1	0	14863773.06	1755330.64	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-58	14863761.39	1755342.02	Channel 2	92.85	White's XLT	Munitions Debris	Canister	2	40mm Smoke Canister, expended	0.1	0	14863761.39	1755342.02	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-59	14863755.88	1755349.86	Channel 2	80.93	White's XLT	Munitions Debris	Flare	1	tail boom.	0.1	0	14863755.88	1755349.86	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-62-1	14863749.75	1755360	Channel 2	355.36	White's XLT	Munitions Debris	Flare	1	Flare, Expended	0.1	0	14863749.75	1755360	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-6	14863735.4	1755566.55	Channel 2	8.43	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14863735.4	1755566.55	12	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-60-1	14863752.78	1755354.26	Channel 2	176.44	White's XLT	Cultural Debris	Metal Scrap	4	Metal Scrap	0.5	0	14863752.78	1755354.26	24	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-60-2	14863752.78	1755354.26	Channel 2	176.44	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863752.78	1755354.26	24	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-61	14863751.27	1755356.47	Channel 2	167.14	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14863751.27	1755356.47	6	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-67-2	14863741.4	1755396.92	Channel 2	237.69	White's XLT	Munitions Debris	Other MD	2	Unknown MD	1	0	14863741.4	1755396.92	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-62-2	14863749.75	1755360	Channel 2	355.36	White's XLT	Cultural Debris	Metal Scrap	1	railroad tie. Debris too large to clear.		0	14863749.75	1755360	0	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-63	14863746.46	1755373.1	Channel 2	55.40	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		0	14863746.46	1755373.1	4	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-64	14863746.09	1755377.81	Channel 2	81.69	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14863746.09	1755377.81	6	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-65-1	14863745.75	1755387.79	Channel 2	45.39	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.5	0	14863745.75	1755387.79	6	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-65-2	14863745.75	1755387.79	Channel 2	45.39	White's XLT	Geology	Hot Rock	2	Hot Rock. Debris too large to clear.		0	14863745.75	1755387.79	8	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-66-1	14863742.2	1755395.9	Channel 2	237.80	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		0	14863742.2	1755395.9	6	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-66-2	14863742.2	1755395.9	Channel 2	237.80	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14863742.2	1755395.9	6	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-67-1	14863741.4	1755396.92	Channel 2	237.69	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.1	0	14863741.4	1755396.92	6	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-68	14863733.28	1755402.61	Channel 2	31.36	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863733.28	1755402.61	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-69	14863724.23	1755410.55	Channel 2	25.09	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863724.23	1755410.55	4	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-70	14863724.62	1755421	Channel 2	42.08	White's XLT	Munitions Debris	Casing	1	40mm, Empty Casing	0.1	0	14863724.62	1755421	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-7	14863740.56	1755560.15	Channel 2	8.35	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14863740.56	1755560.15	8	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-71	14863725.23	1755429.43	Channel 2	31.68	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863725.23	1755429.43	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-72	14863725.46	1755433.67	Channel 2	53.40	White's XLT	Munitions Debris	Flare	2	Flare, Expended, expended	0.1	0	14863725.46	1755433.67	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-73	14863725.59	1755438.78	Channel 2	447.50	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863725.59	1755438.78	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-76-1	14864360.65	1755129.38	Channel 2	168.12	White's XLT	UXO	Mortar	1	Fuzed M50 60mm Mortar, Practice	5	0	14864360.65	1755129.38	6	5/4/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	2024-74	14863703.54	1755481.26	Channel 2	29.03	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863703.54	1755481.26	0	5/17/2012	Eric Kidder	Left in place
Former Operational Area	2024-75	14863698.28	1755495.24	Channel 2	399.62	White's XLT	Cultural Debris	Metal Scrap	3	Metal scrap. Debris too large to clear.		0	14863698.28	1755495.24	0	5/17/2012	Eric Kidder	Left in place
Former Operational Area	2024-76-2	14864360.65	1755129.38	Channel 2	168.12	White's XLT	Munitions Debris	Catridge	4	XM66L Flare, Expended Cartridges	0.1	0	14864360.65	1755129.38	6	5/4/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-80-1	14864376.24	1755158.69	Channel 2	15.98	White's XLT	Munitions Debris	Flare	1	Flare, Expended Cap	0.1	0	14864376.24	1755158.69	4	5/4/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-76-3	14864360.65	1755129.38	Channel 2	168.12	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14864360.65	1755129.38	4	5/4/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-76-4	14864360.65	1755129.38	Channel 2	168.12	White's XLT	Cultural Debris	Metal Scrap	1	trash pit.	1	0	14864360.65	1755129.38	4	5/4/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-77	14864355.79	1755135.34	Channel 2	326.33	White's XLT	Cultural Debris	Metal Scrap	1	springs from mattress. Debris too large to clear.		0	14864355.79	1755135.34	4	5/4/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-78	14864355.91	1755141.37	Channel 2	196.08	White's XLT	Cultural Debris	Metal Scrap	1	springs from spring mattress. Debris too large to clear.		0	14864355.91	1755141.37	4	5/4/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-79	14864368.44	1755153.8	Channel 2	25.38	White's XLT	Cultural Debris	Metal Scrap	1	springs from spring matress. Debris too large to clear.		0	14864368.44	1755153.8	3	5/4/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-8	14863747.36	1755553.71	Channel 2	8.65	White's XLT	Cultural Debris	Metal Scrap	1	lid	0.1	0	14863747.36	1755553.71	8	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-80-2	14864376.24	1755158.69	Channel 2	15.98	White's XLT	Munitions Debris	Casing	2	XM662 Flare, Expended Cases	0.1	0	14864376.24	1755158.69	2	5/4/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-80-3	14864376.24	1755158.69	Channel 2	15.98	White's XLT	Munitions Debris	Casing	1	Flare, Expended Casing Base	0.1	0	14864376.24	1755158.69	4	5/4/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-80-4	14864376.24	1755158.69	Channel 2	15.98	White's XLT	Munitions Debris	Spacer	1	Flare, Expended Spacer	0.1	0	14864376.24	1755158.69	3	5/4/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-81	14864383.42	1755163.65	Channel 2	11.17	White's XLT	Munitions Debris	Catridge	2	MS831A1 Flare, Expended Casing	0.1	0	14864383.42	1755163.65	2	5/4/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T05-916	14862779.77	1759838.412	Mag & Dig	Analog	White's XLT	Munitions Debris	Other MD	1	M1 Clip	0.1	NA	-	-	3	4/20/2012	Jason Leseiko	Verified as MDAS/Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	2024-82-1	14864392.96	1755168.8	Channel 2	41.08	White's XLT	Munitions Debris	Catridge	1	MS831A1- Flare, Expended Casing	0.1	0	14864392.96	1755168.8	3	5/4/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-82-2	14864392.96	1755168.8	Channel 2	41.08	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit. Debris too large to clear.		0	14864392.96	1755168.8	6	5/4/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-83	14864399.04	1755172.7	Channel 2	71.94	White's XLT	Munitions Debris	Canister	1	Smoke Canister, expended	0.5	0	14864399.04	1755172.7	6	5/4/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-84-1	14864406.81	1755177.5	Channel 2	31.14	White's XLT	Munitions Debris	Catridge	1	MS83A1 Flare, Expended Cartridge	0.1	0	14864406.81	1755177.5	0	5/4/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-84-2	14864406.81	1755177.5	Channel 2	31.14	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14864406.81	1755177.5	1	5/4/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-85	14864413.19	1755185.43	Channel 2	67.11	White's XLT	Cultural Debris	Metal Scrap	1	metal trash.	0.1	0	14864413.19	1755185.43	4	5/4/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-86	14863621.23	1755382.71	Channel 2	27.01	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863621.23	1755382.71	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-87	14863625.93	1755378.87	Channel 2	36.58	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863625.93	1755378.87	0	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-88	14863635.69	1755368	Channel 2	13.33	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14863635.69	1755368	4	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-89	14863640.93	1755358.23	Channel 2	35.48	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863640.93	1755358.23	4	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-9	14863752.41	1755544.5	Channel 2	333.55	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14863752.41	1755544.5	3	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-90	14863647.49	1755345.55	Channel 2	86.27	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863647.49	1755345.55	0	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-91	14863650.63	1755340.62	Channel 2	112.26	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863650.63	1755340.62	0	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-92	14863662.79	1755326.63	Channel 2	116.36	White's XLT	Munitions Debris	Projectile	1	105mm, Illumination, expended	2	0	14863662.79	1755326.63	8	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T07-905	14864865	1761256.78	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	2	Fragment	1	NA	-	-	1	4/25/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-94	14863685.62	1755260.26	Channel 2	82.83	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14863685.62	1755260.26	6	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	2024-93	14863670.99	1755311	Channel 2	23.81	White's XLT	Munitions Debris	Other MD	2	Other MD	0.1	0	14863670.99	1755311	4	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-95	14863692.08	1755250.69	Channel 2	62.19	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863692.08	1755250.69	1	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-96	14863696.74	1755246.81	Channel 2	57.44	White's XLT	Munitions Debris	Canister	1	40mm Yellow Smoke Parachute	0.1	0	14863696.74	1755246.81	2	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-98	14863712.39	1755230.09	Channel 2	26.99	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		0	14863712.39	1755230.09	6	5/16/2012	Rick Shellenbarger	Left in place
Former Operational Area	2024-97	14863707.71	1755237.2	Channel 2	63.54	White's XLT	Munitions Debris	Flare	1	Flare, Expended, expended	0.1	0	14863707.71	1755237.2	0	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-99-2	14863716.51	1755224.59	Channel 2	27.61	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14863716.51	1755224.59	6	5/16/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-01-10	14876501.25	1767671	Channel 2	16.79	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14876501.25	1767671	0	5/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-01-11	14876501.25	1767704.25	Channel 2	10.20	White's XLT	Cultural Debris	Nail	1	Nail	0.01	0	14876501.25	1767704.25	2	5/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-01-12	14876501.75	1767666.75	Channel 2	11.65	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	0	14876501.75	1767666.75	2	5/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-01-13	14876501.41	1767680.04	Channel 2	10.10	White's XLT	Cultural Debris	Nail	1	Nail	0.02	0	14876501.41	1767680.04	1	5/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-01-15	14876503.5	1767704.5	Channel 2	13.48	White's XLT	Cultural Debris	Metal Scrap	3	nail and scrap metal	0.02	0	14876503.5	1767704.5	2	5/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-01-16	14876504.75	1767683.25	Channel 2	7.25	White's XLT	Cultural Debris	Wire	1	Wire		0	14876504.75	1767683.25	0	5/25/2012	Eric Kidder	Left in place
Former Operational Area	FOA-01-17	14876506	1767679.5	Channel 2	7.62	White's XLT	Cultural Debris	Wire	1	Wire		0	14876506	1767679.5	0	5/25/2012	Eric Kidder	Left in place
Former Operational Area	FOA-01-19	14876507.5	1767701	Channel 2	8.92	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14876507.5	1767701	1	5/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-01-21	14876508.25	1767679.75	Channel 2	7.21	White's XLT	Cultural Debris	Wire	1	Wire		0	14876508.25	1767679.75	1	5/25/2012	Eric Kidder	Left in place
Former Operational Area	FOA-01-23	14876510.75	1767665.75	Channel 2	11.70	White's XLT	Cultural Debris	Nail	1	Nail	0.01	0	14876510.75	1767665.75	1	5/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-01-24	14876512.5	1767666	Channel 2	11.56	White's XLT	Cultural Debris	Nail	1	Nail	0.01	0	14876512.5	1767666	2	5/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-01-26	14876513.79	1767672.49	Channel 2	15.21	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14876513.79	1767672.49	0	5/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-01-27	14876514.75	1767687.5	Channel 2	91.15	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	2	0	14876514.75	1767687.5	3	5/25/2012	Eric Kidder	Retained by Weston
Former Operational Area	FOA-01-28	14876516.25	1767666.25	Channel 2	8.86	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1.5	0	14876516.25	1767666.25	3	5/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-01-3	14876495.5	1767701.25	Channel 2	8.23	White's XLT	Cultural Debris	Nail	1	Nail	0.5	0	14876495.5	1767701.25	2	5/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-01-30	14876518	1767666.5	Channel 2	8.87	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0	0	14876518	1767666.5	2	5/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-01-31	14876519	1767686	Channel 2	68.06	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14876519	1767686	1	5/25/2012	Eric Kidder	Left in place
Former Operational Area	FOA-01-32	14876519.25	1767690.25	Channel 2	41.22	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14876519.25	1767690.25	1	5/25/2012	Eric Kidder	Left in place
Former Operational Area	FOA-01-34	14876524	1767674.25	Channel 2	70.00	White's XLT	Cultural Debris	Chain	1	Chain	0.5	0	14876524	1767674.25	2	5/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-01-35	14876527.5	1767714.75	Channel 2	27.08	White's XLT	Cultural Debris	Pipe	2	Pipe	1	0	14876527.5	1767714.75	2	5/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-01-37	14876530.03	1767717.92	Channel 2	22.12	White's XLT	Cultural Debris	Nail	1	Nail	0.5	0	14876530.03	1767717.92	2	5/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-01-38	14876533.02	1767680.36	Channel 2	14.16	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14876533.02	1767680.36	1	5/25/2012	Eric Kidder	Left in place
Former Operational Area	FOA-01-40	14876534.45	1767711.56	Channel 2	24.76	White's XLT	Cultural Debris	Pipe	1	Pipe	1	0	14876534.45	1767711.56	1	5/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-01-42	14876536	1767688.5	Channel 2	10.23	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14876536	1767688.5	1	5/25/2012	Eric Kidder	Left in place
Former Operational Area	FOA-01-43	14876517.64	1767708.78	Channel 2	6.89	White's XLT	No Contact		1	No Contact						5/25/2012	Eric Kidder	NA
Former Operational Area	FOA-01-44	14876506.49	1767713.408	Channel 2	5.63	White's XLT	No Contact		1	No Contact						5/25/2012	Eric Kidder	NA
Former Operational Area	FOA-01-45	14876489.9	1767715.11	Channel 2	5.82	White's XLT	No Contact		1	No Contact						5/25/2012	Eric Kidder	NA
Former Operational Area	FOA-01-46	14876488.18	1767714.848	Channel 2	5.85	White's XLT	No Contact		1	No Contact						5/25/2012	Eric Kidder	NA
Former Operational Area	FOA-01-47	14876519.66	1767704.92	Channel 2	4.92	White's XLT	No Contact		1	No Contact						5/25/2012	Eric Kidder	NA
Former Operational Area	FOA-01-48	14876488.7	1767712.833	Channel 2	6.75	White's XLT	No Contact		1	No Contact						5/25/2012	Eric Kidder	NA
Former Operational Area	FOA-01-5	14876499.19	1767708.25	Channel 2	10.33	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	0	14876499.19	1767708.25	2	5/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-01-6	14876499.5	1767684.75	Channel 2	7.44	White's XLT	Cultural Debris	Nail Pit	3	Nail Pit		0	14876499.5	1767684.75	1	5/25/2012	Eric Kidder	Left in place
Former Operational Area	FOA-01-7	14876499.5	1767702	Channel 2	8.55	White's XLT	Cultural Debris	Nail	1	Nail	0.01	0	14876499.5	1767702	2	5/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-02-1	14878207.5	1769241	Channel 2	19.67	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14878207.5	1769241	2	5/24/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-02-10	14878251.19	1769223.172	Channel 2	3.29	White's XLT	No Contact		1	No Contact						5/24/2012	Eric Kidder	NA
Former Operational Area	FOA-02-11	14878248.26	1769224.323	Channel 2	3.58	White's XLT	No Contact		1	No Contact						5/24/2012	Eric Kidder	NA
Former Operational Area	FOA-02-12	14878259.35	1769231.938	Channel 2	3.51	White's XLT	No Contact		1	No Contact						5/24/2012	Eric Kidder	NA
Former Operational Area	FOA-02-13	14878244.37	1769262.762	Channel 2	3.56	White's XLT	No Contact		1	No Contact						5/24/2012	Eric Kidder	NA
Former Operational Area	FOA-02-2	14878211.25	1769240	Channel 2	14.31	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14878211.25	1769240	4	5/24/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-02-3-1	14878227.67	1769250.55	Channel 2	68.09	White's XLT	Geology	Hot Rock	1	Geology		0	14878227.67	1769250.55	1	5/24/2012	Eric Kidder	Left in place
Former Operational Area	FOA-02-3-2	14878227.67	1769250.55	Channel 2	68.09	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	2	0	14878227.67	1769250.55	2	5/24/2012	Eric Kidder	Retained by Weston
Former Operational Area	FOA-02-5	14878250.5	1769229.25	Channel 2	96.89	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14878250.5	1769229.25	1	5/24/2012	Eric Kidder	Left in place
Former Operational Area	FOA-02-6	14878255	1769241.25	Channel 2	16.66	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14878255	1769241.25	2	5/24/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-02-7	14878255.5	1769243	Channel 2	16.93	White's XLT	Cultural Debris	Wire	1	Wire		0	14878255.5	1769243	2	5/24/2012	Eric Kidder	Left in place
Former Operational Area	FOA-02-8	14878217.15	1769208.684	Channel 2	8.04	White's XLT	No Contact		1	No Contact						5/24/2012	Eric Kidder	NA
Former Operational Area	FOA-02-9	14878250.33	1769220.831	Channel 2	3.43	White's XLT	No Contact		1	No Contact						5/24/2012	Eric Kidder	NA
Former Operational Area	FOA-03-1	14877729.25	1767905.25	Channel 2	15.17	White's XLT	Cultural Debris	Wire	1	Wire		0	14877729.25	1767905.25	1	5/24/2012	Eric Kidder	Left in place
Former Operational Area	FOA-03-11	14877754.25	1767882.5	Channel 2	200.24	White's XLT	Cultural Debris	Nail Pit	1	Nails in Board		0	14877754.25	1767882.5	0	5/24/2012	Eric Kidder	Left in place
Former Operational Area	FOA-03-13	14877767.25	1767913	Channel 2	13.64	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14877767.25	1767913	2	5/24/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-03-14	14877768.5	1767888.5	Channel 2	10.22	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14877768.5	1767888.5	1	5/24/2012	Eric Kidder	Left in place
Former Operational Area	FOA-03-18	14877771.75	1767903	Channel 2	11.13	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14877771.75	1767903	2	5/24/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-03-19	14877773	1767885.25	Channel 2	8.34	White's XLT	Geology	Hot Rock	1	Geology		0	14877773	1767885.25	1	5/24/2012	Eric Kidder	Left in place
Former Operational Area	FOA-03-2	14877729.5	1767903	Channel 2	13.78	White's XLT	Cultural Debris	Wire	1	Wire		0	14877729.5	1767903	1	5/24/2012	Eric Kidder	Left in place
Former Operational Area	FOA-03-20-1	14877775.75	1767903.75	Channel 2	12.92	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14877775.75	1767903.75	2	5/24/2012	Eric Kidder	Left in place
Former Operational Area	FOA-03-20-2	14877775.75	1767903.75	Channel 2	12.92	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14877775.75	1767903.75	1	5/24/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-03-21	14877776.25	1767884.5	Channel 2	9.34	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14877776.25	1767884.5	1	5/24/2012	Eric Kidder	Left in place
Former Operational Area	FOA-03-22	14877752.24	1767884.969	Channel 2	11.32	White's XLT	No Contact		1	No Contact						5/24/2012	Eric Kidder	NA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	FOA-03-23	14877726.97	1767911.63	Channel 2	3.79	White's XLT	No Contact		1	No Contact						5/24/2012	Eric Kidder	NA
Former Operational Area	FOA-03-24	14877765.59	1767897.897	Channel 2	5.34	White's XLT	No Contact		1	No Contact						5/24/2012	Eric Kidder	NA
Former Operational Area	FOA-03-25	14877771.27	1767909.523	Channel 2	5.33	White's XLT	No Contact		1	No Contact						5/24/2012	Eric Kidder	NA
Former Operational Area	FOA-03-3	14877735.75	1767890.75	Channel 2	152.63	White's XLT	Munitions Debris	Mortar	1	60 mm Mortar Tailboom	2	0	14877735.75	1767890.75	0	5/24/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-03-4	14877744.25	1767884	Channel 2	13.82	White's XLT	Cultural Debris	Nail Pit	3	Nail Pit		0	14877744.25	1767884	1	5/24/2012	Eric Kidder	Left in place
Former Operational Area	FOA-03-5	14877746.05	1767906.85	Channel 2	91.45	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	2	0	14877746.05	1767906.85	4	5/24/2012	Eric Kidder	Retained by Weston
Former Operational Area	FOA-03-6	14877746	1767891.5	Channel 2	14.62	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	0	14877746	1767891.5	2	5/24/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-03-8	14877748.5	1767883.75	Channel 2	18.12	White's XLT	Cultural Debris	Nail	1	Nail	0.01	0	14877748.5	1767883.75	1	5/24/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-03-9	14877749.94	1767887.76	Channel 2	13.95	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		0	14877749.94	1767887.76	2	5/24/2012	Eric Kidder	Left in place
Former Operational Area	FOA-04-1	14867385.5	1757949.75	Channel 2	18.06	White's XLT	Munitions Debris	Grenade	1	7" Grenade Hand, Smoke, expended	0.5	24	14867386.91	1757948.336	18	4/21/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-04-10	14867406	1757939.9	Channel 2	83.06	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	1.5	2	14867405.88	1757939.782	6	4/21/2012	Rick Shellenbarger	Retained by Weston
Former Operational Area	FOA-04-12	14867414.75	1757972.25	Channel 2	18.02	White's XLT	Munitions Debris	Mortar	1	60mm, Illumination, expended	0.5	24	14867414.75	1757970.25	0	4/21/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-04-15	14867436.5	1757970.75	Channel 2	6978.78	White's XLT	Cultural Debris	Other	1	sign on surface		3	14867436.5	1757971	0	4/21/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-04-16	14867438	1757963.5	Channel 2	15.14	White's XLT	Cultural Debris	Wire	1	buried cables		24	14867440	1757963.5	6	4/21/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-04-17	14867388.61	1757968.664	Channel 2	6.97	White's XLT	No Contact		1	No Contact						4/21/2012	Rick Shellenbarger	NA
Former Operational Area	FOA-04-18	14867435.89	1757962.22	Channel 2	5.97	White's XLT	No Contact		1	No Contact						4/21/2012	Rick Shellenbarger	NA
Former Operational Area	FOA-04-19	14867416.3	1757961.017	Channel 2	6.77	White's XLT	No Contact		1	No Contact						4/21/2012	Rick Shellenbarger	NA
Former Operational Area	FOA-04-2	14867388	1757943.5	Channel 2	101.21	White's XLT	Cultural Debris	Nail	1	Square Nails	0.1	24	14867389.41	1757944.914	4	4/21/2012	Rick Shellenbarger	Transferred to PTA Archaeologist
Former Operational Area	FOA-04-20	14867412.32	1757918.932	Channel 2	4.75	White's XLT	No Contact		1	No Contact						4/21/2012	Rick Shellenbarger	NA
Former Operational Area	FOA-04-21	14867400.34	1757921.576	Channel 2	5.00	White's XLT	No Contact		1	No Contact						4/21/2012	Rick Shellenbarger	NA
Former Operational Area	FOA-04-22	14867408.53	1757931.726	Channel 2	5.91	White's XLT	No Contact		1	No Contact						4/21/2012	Rick Shellenbarger	NA
Former Operational Area	FOA-04-5-1	14867397.5	1757923.75	Channel 2	10.46	White's XLT	Cultural Debris	Nail	1	Square Nail	0.1	24	14867398.91	1757925.164	15	4/21/2012	Rick Shellenbarger	Transferred to PTA Archaeologist
Former Operational Area	FOA-04-5-2	14867397.5	1757923.75	Channel 2	10.46	White's XLT	Small Arms	Other	1	shotgun shell	0.01	24	14867398.91	1757925.164	4	4/21/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-04-9	14867403.64	1757964.89	Channel 2	73.39	White's XLT	Munitions Debris	Grenade	1	Grenade Hand, Smoke, Body	0.5	24	14867402.23	1757963.476	0	4/21/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-05-1	14867498.75	1756820.25	Channel 2	46.56	White's XLT	Cultural Debris	Other	1	lock	1	24	14867496.75	1756820.25	6	4/21/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-05-10	14867536.75	1756854.5	Channel 2	12.11	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14867536.75	1756854.5	8	4/21/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-05-11	14867539.75	1756852.75	Channel 2	13.10	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2.5	0	14867539.75	1756852.75	24	4/21/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-05-12	14867505.64	1756840.538	Channel 2	4.39	White's XLT	No Contact		1	No Contact						4/22/2012	Rick Shellenbarger	NA
Former Operational Area	FOA-05-2	14867500.25	1756822.25	Channel 2	13.00	White's XLT	Cultural Debris	Other	1	Shared with target 1		24	14867502.25	1756822.25	6	4/21/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-05-3	14867517.25	1756829.25	Channel 2	93.65	White's XLT	Seed	2" x 8" Pipe	1	Shared with target 4	1.5	0	14867517.25	1756829.25	8	4/21/2012	Rick Shellenbarger	Retained by Weston
Former Operational Area	FOA-05-4	14867518.5	1756827.75	Channel 2	78.83	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	1.5	5	14867518.5	1756828.167	8	4/21/2012	Rick Shellenbarger	Retained by Weston
Former Operational Area	FOA-05-5	14867519	1756831.75	Channel 2	113.43	White's XLT	Seed	2" x 8" Pipe	1	Shared with target 4	1.5	0	14867519	1756831.75	8	4/21/2012	Rick Shellenbarger	Retained by Weston
Former Operational Area	FOA-05-6-1	14867533.13	1756863.15	Channel 2	148.33	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14867533.13	1756863.15	8	4/21/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-05-6-2	14867533.13	1756863.15	Channel 2	148.33	White's XLT	Cultural Debris	Metal Scrap	1	scrap under root		0	14867533.13	1756863.15	4	4/21/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-05-6-3	14867533.13	1756863.15	Channel 2	148.33	White's XLT	Cultural Debris	Other	1	Old Grinder	2	0	14867533.13	1756863.15	6	4/21/2012	Rick Shellenbarger	Transferred to PTA Archaeologist
Former Operational Area	FOA-05-6-4	14867533.13	1756863.15	Channel 2	148.33	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14867533.13	1756863.15	3	4/21/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-05-8	14867534	1756840.5	Channel 2	310.28	White's XLT	Cultural Debris	Metal Scrap	14	broken bucket	3	0	14867534	1756840.5	12	4/21/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-06-2	14866848.25	1756633	Channel 2	8.00	White's XLT	No Contact		1	No Contact						4/21/2012	Rick Shellenbarger	NA
Former Operational Area	FOA-06-3	14866862.5	1756628	Channel 2	134.50	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	1.5	0	14866862.5	1756628	8	4/21/2012	Rick Shellenbarger	Retained by Weston
Former Operational Area	FOA-06-4	14866863.5	1756594	Channel 2	11.78	White's XLT	No Contact		1	No Contact						4/21/2012	Rick Shellenbarger	NA
Former Operational Area	FOA-06-7	14866871.5	1756639	Channel 2	8.89	White's XLT	No Contact		1	No Contact						4/21/2012	Rick Shellenbarger	NA
Former Operational Area	FOA-06-8	14866865.71	1756595.103	Channel 2	5.80	White's XLT	No Contact		1	No Contact						4/21/2012	Rick Shellenbarger	NA
Former Operational Area	FOA-06-9	14866846.63	1756630.215	Channel 2	6.90	White's XLT	No Contact		1	No Contact						4/21/2012	Rick Shellenbarger	NA
Former Operational Area	FOA-07-10	14866007.5	1756364.5	Channel 2	7.40	White's XLT	No Contact		1	No Contact						4/21/2012	Rick Shellenbarger	NA
Former Operational Area	FOA-07-12	1756388.024	14865967.19	Channel 2	8.06	White's XLT	No Contact		1	No Contact						4/21/2012	Rick Shellenbarger	NA
Former Operational Area	FOA-07-13	1756368.725	14866006.16	Channel 2	5.99	White's XLT	No Contact		1	No Contact						4/21/2012	Rick Shellenbarger	NA
Former Operational Area	FOA-07-14	1756375.319	14866011.67	Channel 2	5.08	White's XLT	No Contact		1	No Contact						4/21/2012	Rick Shellenbarger	NA
Former Operational Area	FOA-07-15	1756401.106	14865998.64	Channel 2	5.41	White's XLT	No Contact		1	No Contact						4/21/2012	Rick Shellenbarger	NA
Former Operational Area	FOA-07-2	14865967.19	1756388.024	Channel 2	7.62	White's XLT	No Contact		1	No Contact						4/21/2012	Rick Shellenbarger	NA
Former Operational Area	FOA-07-3	14866006.16	1756368.725	Channel 2	151.97	White's XLT	No Contact		1	No Contact						4/21/2012	Rick Shellenbarger	NA
Former Operational Area	FOA-07-4	14866011.67	1756375.319	Channel 2	101.52	White's XLT	Seed	2" x 8" Pipe	1	2" x 8" Pipe	1.5	0	14865995.25	1756378.5	8	4/21/2012	Rick Shellenbarger	Retained by Weston
Former Operational Area	FOA-07-6	14865998.64	1756401.106	Channel 2	7.56	White's XLT	No Contact		1	No Contact						4/21/2012	Rick Shellenbarger	NA
Former Operational Area	FOA-07-8	14866006	1756391	Channel 2	9.68	White's XLT	No Contact		1	No Contact						4/21/2012	Rick Shellenbarger	NA
Former Operational Area	FOA-07-9	14866007	1756371.75	Channel 2	20.09	White's XLT	No Contact		1	No Contact						4/21/2012	Rick Shellenbarger	NA
Former Operational Area	FOA-N-0	14876249.15	1766148.99	Channel 2	117.37	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14876249.15	1766148.99	0	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1103	14877682.15	1769086.14	Channel 2	28.92	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14877682.15	1769086.14	2	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1104	14877677.24	1769076.6	Channel 2	97.63	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14877677.24	1769076.6	2	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1105	14877674.86	1769073.9	Channel 2	43.81	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14877674.86	1769073.9	2	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1106	14877661.73	1769058.28	Channel 2	73.79	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14877661.73	1769058.28	3	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1107	14877622.65	1769016.61	Channel 2	23.10	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14877622.65	1769016.61	4	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1108	14877592.75	1768995.27	Channel 2	377.57	White's XLT	Cultural Debris	Wire	1	Wire		0	14877592.75	1768995.27	0	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1109	14877565.75	1768991.52	Channel 2	26.62	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14877565.75	1768991.52	1	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1110	14877507.3	1768928.32	Channel 2	38.45	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	0	14877507.3	1768928.32	4	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1111	14877505.32	1768927.55	Channel 2	28.22	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14877505.32	1768927.55	2	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1112	14877502.76	1768926.02	Channel 2	57.04	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14877502.76	1768926.02	1	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1113	14877440.92	1768879.54	Channel 2	10.12	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	0	14877440.92	1768879.54	2	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1114	14877431.46	1768876.47	Channel 2	51.83	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14877431.46	1768876.47	3	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1115	14877421.06	1768874.38	Channel 2	218.88	White's XLT	Cultural Debris	Chain	1	Chain		0	14877421.06	1768874.38	1	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1116	14877414.56	1768870.17	Channel 2	93.68	White's XLT	Cultural Debris	Wire	1	Wire	0.1	0	14877414.56	1768870.17	2	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1117	14877408.13	1768862.23	Channel 2	14.32	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit	0.01	0	14877408.13	1768862.23	3	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1118	14877304.9	1768750.82	Channel 2	24.28	White's XLT	Geology	Hot Rock	1	Hot Rock		0	14877304.9	1768750.82	0	5/10/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-N-1128	14877153.66	1768582.06	Channel 2	9.15	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14877153.66	1768582.06	2	5/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1129	14877115.64	1768512.05	Channel 2	16.13	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14877115.64	1768512.05	0	5/10/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-N-1130	14877085.08	1768513.12	Channel 2	30.88	White's XLT	Cultural Debris	Wire	1	Wire	0.1	0	14877085.08	1768513.12	2	5/10/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-N-1131	14877065.18	1768516.01	Channel 2	15.37	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	0	14877065.18	1768516.01	4	5/10/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-N-1132	14877053.32	1768514.83	Channel 2	30.23	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14877053.32	1768514.83	3	5/10/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-N-1142	14877376.48	1767598.96	Channel 2	23.81	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	0	14877376.48	1767598.96	2	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1143	14877496.67	1767622.38	Channel 2	184.55	White's XLT	Cultural Debris	Horseshoe	1	Horseshoe	3	0	14877496.67	1767622.38	1	5/19/2012	Eric Kidder	Transferred to PTA Archaeologist
Former Operational Area	FOA-N-1155	14877645.49	1767677.11	Channel 2	25.98	White's XLT	Cultural Debris	Nail	1	Nail	0.5	0	14877645.49	1767677.11	1	5/19/2012	Eric Kidder	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	FOA-N-1156	14877655.97	1767689.91	Channel 2	11.65	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14877655.97	1767689.91	2	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1157	14877669.33	1767705.75	Channel 2	43.20	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1.5	0	14877669.33	1767705.75	6	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1158	14877686.18	1767725.43	Channel 2	9.07	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	0	14877686.18	1767725.43	1	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1159	14877719.61	1767772.32	Channel 2	8.17	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	0.01	0	14877719.61	1767772.32	1	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1160	14877756.1	1767795.34	Channel 2	17.48	White's XLT	Cultural Debris	Wire	1	Wire	0.1	0	14877756.1	1767795.34	2	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1161	14877766.16	1767826.46	Channel 2	8.55	White's XLT	Cultural Debris	Wire	1	Wire	0.01	0	14877766.16	1767826.46	1	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1162	14877787.57	1767878.55	Channel 2	12.90	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14877787.57	1767878.55	1	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1165	14878190.89	1769238.32	Channel 2	210.84	White's XLT	Cultural Debris	Pipe	1	Pipe		0	14878190.89	1769238.32	0	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1166	14878239.13	1769278.21	Channel 2	2454.95	White's XLT	Cultural Debris	Pipe	1	Pipe		0	14878239.13	1769278.21	0	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1167	14878292.6	1769333.56	Channel 2	5048.18	White's XLT	Cultural Debris	Concrete	1	reinforced concrete and large rocks to large to clear		0	14878292.6	1769333.56	2	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1194	14875944.01	1767133.37	Channel 2	46.59	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14875944.01	1767133.37	4	5/10/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-N-1195	14875954.63	1767150.12	Channel 2	49.78	White's XLT	Cultural Debris	Nail	1	Nail	0.02	0	14875954.63	1767150.12	3	5/10/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-N-1196	14875961.73	1767162.83	Channel 2	15.21	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	0	14875961.73	1767162.83	4	5/10/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-N-1197	14875972.02	1767182.55	Channel 2	11.78	White's XLT	Cultural Debris	Nail	1	Nail	0.02	0	14875972.02	1767182.55	2	5/10/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-N-12	14876302.46	1766215.43	Channel 2	240.73	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1.5	0	14876302.46	1766215.43	6	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-121	14878594.28	1769019.91	Channel 2	32.82	White's XLT	Cultural Debris	Cable	1	Cable		0	14878594.28	1769019.91	1	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-122	14878579.19	1768995.63	Channel 2	12.36	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14878579.19	1768995.63	2	5/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-123	14878572.25	1768991.97	Channel 2	32.91	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	0	14878572.25	1768991.97	2	5/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-124	14878563.82	1768987.18	Channel 2	9.08	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	0	14878563.82	1768987.18	2	5/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-125	14878558.27	1768982.08	Channel 2	22.20	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	0	14878558.27	1768982.08	2	5/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-126	14878545.12	1768968.93	Channel 2	38.98	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14878545.12	1768968.93	2	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1266	14876426.05	1767532.98	Channel 2	14.15	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14876426.05	1767532.98	1	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1267	14876444.08	1767566.62	Channel 2	7.59	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14876444.08	1767566.62	1	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1268	14876453.47	1767607.77	Channel 2	35.31	White's XLT	Cultural Debris	Nail	1	Nail		0	14876453.47	1767607.77	2	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1269	14876463.24	1767614.09	Channel 2	13.87	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		0	14876463.24	1767614.09	3	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-127	14878527.24	1768957.63	Channel 2	8.50	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14878527.24	1768957.63	2	5/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1270	14876570.61	1767662.49	Channel 2	63.33	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	0	14876570.61	1767662.49	2	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1271	14876574.22	1767665.49	Channel 2	42.17	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	0	14876574.22	1767665.49	2	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1272	14876626.07	1767726.59	Channel 2	114.05	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14876626.07	1767726.59	0	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1273	14876627.17	1767733.8	Channel 2	10.12	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14876627.17	1767733.8	0	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1274	14876678.51	1767834.17	Channel 2	8.35	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14876678.51	1767834.17	2	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1275	14876695.1	1767846.16	Channel 2	47.46	White's XLT	Cultural Debris	Wire	1	Wire		0	14876695.1	1767846.16	1	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1276	14876720.9	1767863.22	Channel 2	15.64	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14876720.9	1767863.22	2	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1277	14876786.41	1767927.54	Channel 2	40.91	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14876786.41	1767927.54	2	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1278	14876805.15	1767958.88	Channel 2	15.81	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14876805.15	1767958.88	3	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1279	14876822.94	1767992.93	Channel 2	8.79	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	5	0	14876822.94	1767992.93	3	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1285	14878028.51	1769152.6	Channel 2	108.86	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	0	14878028.51	1769152.6	2	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1286	14877972.63	1769059.02	Channel 2	11.77	White's XLT	Cultural Debris	Cable	1	Cable. Debris too large to clear.		0	14877972.63	1769059.02	1	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1287	14877972.62	1769049.87	Channel 2	55.04	White's XLT	Geology	Hot Rock	1	Hot Rock		0	14877972.62	1769049.87	2	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1290	14877852.33	1768947.56	Channel 2	23.16	White's XLT	Cultural Debris	Cable	1	Cable. Debris too large to clear.		0	14877852.33	1768947.56	3	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1291	14877832.37	1768927.18	Channel 2	15.55	White's XLT	Cultural Debris	Cable	1	Cable. Debris too large to clear.		0	14877832.37	1768927.18	4	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1296	14877747.29	1768826.09	Channel 2	30.78	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	0	14877747.29	1768826.09	2	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1297	14877645.43	1768761.79	Channel 2	157.51	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14877645.43	1768761.79	6	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1298	14877598.95	1768722.57	Channel 2	25.02	White's XLT	Cultural Debris	Asphalt	1	Asphalt		0	14877598.95	1768722.57	0	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1299	14877565.19	1768710.05	Channel 2	27.76	White's XLT	Geology	Hot Rock	1	Hot Rock		0	14877565.19	1768710.05	0	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-13	14876308.76	1766223.17	Channel 2	264.68	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14876308.76	1766223.17	3	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1300	14877481.93	1768606.6	Channel 2	23.85	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14877481.93	1768606.6	3	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1304	14877352.39	1768476.32	Channel 2	62.33	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14877352.39	1768476.32	3	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1305	14877345.28	1768470.52	Channel 2	23.65	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14877345.28	1768470.52	2	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1306	14877332.45	1768456.71	Channel 2	61.25	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14877332.45	1768456.71	1	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1307	14877328.35	1768453.64	Channel 2	104.17	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14877328.35	1768453.64	4	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1308	14877286.14	1768416.93	Channel 2	91.02	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14877286.14	1768416.93	2	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1309	14877278.1	1768406.62	Channel 2	3919.30	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14877278.1	1768406.62	2	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1310	14877275.06	1768402.23	Channel 2	24.63	White's XLT	Cultural Debris	Nail	4	Nails in Boards		0	14877275.06	1768402.23	0	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1311	14877255.92	1768399.81	Channel 2	15.68	White's XLT	Cultural Debris	Can	1	Can	0.01	0	14877255.92	1768399.81	3	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1312	14877245.97	1768381.84	Channel 2	19.33	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14877245.97	1768381.84	3	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1313	14877245.74	1768373.34	Channel 2	777.67	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14877245.74	1768373.34	0	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1314	14877249.25	1768363.71	Channel 2	19.61	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14877249.25	1768363.71	0	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-132	14878473.44	1768900.36	Channel 2	12.30	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14878473.44	1768900.36	2	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1330	14877006.33	1768139.68	Channel 2	24.31	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	1.5	0	14877006.33	1768139.68	3	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1331	14876999.24	1768133.78	Channel 2	21.37	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14876999.24	1768133.78	2	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1332	14876990.52	1768130.28	Channel 2	21.62	White's XLT	Cultural Debris	Foil	1	Foil		0	14876990.52	1768130.28	3	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1333	14876981.59	1768128.14	Channel 2	18.27	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14876981.59	1768128.14	3	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1334	14876970.41	1768119.65	Channel 2	27.58	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	0	14876970.41	1768119.65	3	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1335	14876936.73	1768104.22	Channel 2	28.95	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	0	14876936.73	1768104.22	2	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1336	14876933.84	1768103.37	Channel 2	27.43	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14876933.84	1768103.37	3	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1337	14876930.11	1768101.91	Channel 2	37.40	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14876930.11	1768101.91	3	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1338	14876916.6	1768086.19	Channel 2	25.84	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14876916.6	1768086.19	1	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1339	14876871.22	1768062.16	Channel 2	230.62	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14876871.22	1768062.16	2	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-134	14878447.67	1768887.67	Channel 2	207.26	White's XLT	Cultural Debris	Slag	1	Slag		0	14878447.67	1768887.67	2	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1340	14876726.58	1767872.19	Channel 2	13.99	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14876726.58	1767872.19	3	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1341	14876722.21	1767866.15	Channel 2	20.06	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		0	14876722.21	1767866.15	2	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1342	14876712.73	1767859.43	Channel 2	14.79	White's XLT	Cultural Debris	Rebar	1	Rebar. Debris too large to clear.		0	14876712.73	1767859.43	1	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1343	14876698.96	1767848.76	Channel 2	96.31	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14876698.96	1767848.76	1	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1344	14876668.34	1767828.22	Channel 2	284.78	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14876668.34	1767828.22	0	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-135	14878435.17	1768881.94	Channel 2	22.04	White's XLT	Cultural Debris	Slag	1	Slag		0	14878435.17	1768881.94	3	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-136	14878428.29	1768878.93	Channel 2	70.59	White's XLT	Cultural Debris	Bolt	1	Bolt		0	14878428.29	1768878.93	2	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-137	14878413.01	1768867.33	Channel 2	26.66	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14878413.01	1768867.33	2	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-138	14878411.79	1768864.42	Channel 2	29.72	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14878411.79	1768864.42	2	5/20/2012	Eric Kidder	Left in place

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	FOA-N-139	14878405.82	1768857.26	Channel 2	41.40	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14878405.82	1768857.26	2	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-14	14876316.99	1766230.38	Channel 2	34.57	White's XLT	Cultural Debris	Bolt	1	Bolt	0.02	0	14876316.99	1766230.38	4	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-140	14878401.32	1768852.1	Channel 2	29.11	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14878401.32	1768852.1	2	5/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-141	14878393.64	1768847.74	Channel 2	48.47	White's XLT	Cultural Debris	Can	1	Can	0.01	0	14878393.64	1768847.74	2	5/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-142	14878381.78	1768850.38	Channel 2	30.90	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14878381.78	1768850.38	2	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-143	14878373.09	1768845.94	Channel 2	19.34	White's XLT	Cultural Debris	Rebar	1	Rebar		0	14878373.09	1768845.94	2	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-144	14878369.49	1768845.72	Channel 2	53.01	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14878369.49	1768845.72	0	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-1449	14875660.68	1767126.17	Channel 2	66.73	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		0	14875660.68	1767126.17	2	5/10/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-N-145	14878359.63	1768839.6	Channel 2	20.27	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	0.02	0	14878359.63	1768839.6	2	5/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1450	14875676.75	1767145.18	Channel 2	29.72	White's XLT	Cultural Debris	Other	1	glass chicken wire		0	14875676.75	1767145.18	3	5/10/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-N-146	14878323.31	1768815.67	Channel 2	146.11	White's XLT	Cultural Debris	Foil	1	Foil	0.01	0	14878323.31	1768815.67	2	5/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1466-1	14875876.53	1767298.58	Channel 2	8.09	White's XLT	Cultural Debris	Wire	1	Wire	0.1	0	14875876.53	1767298.58	4	5/10/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-N-1466-2	14875876.53	1767298.58	Channel 2	8.09	White's XLT	Cultural Debris	Chain	1	Chain		0	14875876.53	1767298.58	6	5/10/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-N-1467	14875912.46	1767329.71	Channel 2	12.98	White's XLT	Cultural Debris	Other	1	Other		0	14875912.46	1767329.71	3	5/10/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-N-1468	14875917.88	1767334.34	Channel 2	12.48	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14875917.88	1767334.34	4	5/10/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-N-1469	14875936.65	1767345.52	Channel 2	15.39	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		0	14875936.65	1767345.52	3	5/10/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-N-147	14878264.15	1768782.75	Channel 2	8.52	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14878264.15	1768782.75	1	5/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1470	14875942.08	1767357.48	Channel 2	34.58	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		0	14875942.08	1767357.48	2	5/10/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-N-1471	14875961.97	1767376.86	Channel 2	19.36	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		0	14875961.97	1767376.86	2	5/10/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-N-1472	14875979.07	1767372.88	Channel 2	14.54	White's XLT	Cultural Debris	Other	1	Other		0	14875979.07	1767372.88	4	5/10/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-N-1473	14876041.86	1767423.35	Channel 2	76.38	White's XLT	Cultural Debris	Rebar	1	Rebar		0	14876041.86	1767423.35	6	5/10/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-N-148	14878217.68	1768752.03	Channel 2	23.90	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14878217.68	1768752.03	2	5/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-149	14878203.42	1768735.28	Channel 2	14.41	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14878203.42	1768735.28	2	5/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-15	14876327.44	1766242.03	Channel 2	22.57	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14876327.44	1766242.03	2	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-150	14878147.65	1768653.89	Channel 2	14.92	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14878147.65	1768653.89	2	5/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1506	14876554.02	1767968.71	Channel 2	27.23	White's XLT	Cultural Debris	Aluminum	1	Aluminum	0.1	0	14876554.02	1767968.71	2	5/10/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-N-151	14878138.14	1768644.56	Channel 2	21.71	White's XLT	Geology	Hot Rock	1	Geology		0	14878138.14	1768644.56	3	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-152	14877863.73	1768341.93	Channel 2	29.43	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	0	14877863.73	1768341.93	3	5/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-153	14877825.61	1768337.07	Channel 2	12.30	White's XLT	Geology	Hot Rock	1	Geology		0	14877825.61	1768337.07	6	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-154	14877658.47	1768121.18	Channel 2	69.67	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14877658.47	1768121.18	1	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-155	14877649.08	1768079.44	Channel 2	15.81	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14877649.08	1768079.44	2	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1553	14876900.92	1768304.14	Channel 2	7.30	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14876900.92	1768304.14	3	5/10/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-N-1554	14876994.35	1768345.56	Channel 2	25.48	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14876994.35	1768345.56	3	5/10/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-N-1555	14877109.73	1768505.19	Channel 2	56.25	White's XLT	Cultural Debris	Bottle Top	1	Bottle Top	2	0	14877109.73	1768505.19	4	5/10/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-N-1556	14877152.65	1768578.14	Channel 2	8.69	White's XLT	Cultural Debris	Nail	1	Nail	0.1	0	14877152.65	1768578.14	4	5/10/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-N-165	14877563.13	1767905.79	Channel 2	71.40	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14877563.13	1767905.79	1	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-1658	14878394.46	1769832.74	Channel 2	7.69	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14878394.46	1769832.74	3	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-166	14877558.87	1767905.01	Channel 2	40.40	White's XLT	Cultural Debris	Metal Scrap	1	downed light poll with big light and cable		0	14877558.87	1767905.01	0	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-168	14877471.14	1767807.29	Channel 2	7.43	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14877471.14	1767807.29	2	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-169	14877377.14	1767748.02	Channel 2	8.72	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14877377.14	1767748.02	2	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-17	14876337.13	1766257.28	Channel 2	24.17	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14876337.13	1766257.28	1	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-170	14877152.21	1767657.16	Channel 2	40.01	White's XLT	Cultural Debris	Metal Scrap	1	Scrap Metal	0.01	0	14877152.21	1767657.16	2	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-179	14877054.72	1767616.68	Channel 2	13.79	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14877054.72	1767616.68	2	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-18	14876344.01	1766264.56	Channel 2	295.91	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14876344.01	1766264.56	3	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-180	14876927.41	1767233.14	Channel 2	17.81	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	0	14876927.41	1767233.14	2	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-19	14876351.99	1766270.07	Channel 2	510.04	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14876351.99	1766270.07	4	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-191	14876772.46	1767045.33	Channel 2	19.19	White's XLT	Cultural Debris	Cable	1	Cable		0	14876772.46	1767045.33	2	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-192	14876767.97	1767034.9	Channel 2	41.80	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14876767.97	1767034.9	2	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-193	14876759.15	1767032.7	Channel 2	17.51	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14876759.15	1767032.7	1	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-22	14876371.76	1766285.36	Channel 2	32.92	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14876371.76	1766285.36	1	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-224	14877917.93	1769405.02	Channel 2	308.29	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14877917.93	1769405.02	0	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-225	14877972.41	1769603.13	Channel 2	946.45	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14877972.41	1769603.13	0	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-226	14877973.63	1769603.69	Channel 2	775.14	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14877973.63	1769603.69	0	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-227	14876698.06	1767044.77	Channel 2	40.48	White's XLT	Cultural Debris	Bolt	1	Bolt	1	0	14876698.06	1767044.77	3	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-228	14876697.62	1767048.54	Channel 2	43.63	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14876697.62	1767048.54	2	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-23	14876378.5	1766290.15	Channel 2	22.15	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14876378.5	1766290.15	1	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-24	14876388.29	1766300.62	Channel 2	214.19	White's XLT	Cultural Debris	Metal Scrap	1	rolls of wire and rail road spikes in metal plates		0	14876388.29	1766300.62	0	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-26	14876398.37	1766322.84	Channel 2	38.21	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14876398.37	1766322.84	0	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-27	14876412.89	1766327	Channel 2	39.42	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	0	14876412.89	1766327	2	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-28	14876418.45	1766328.19	Channel 2	39.01	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14876418.45	1766328.19	2	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-29	14876427.56	1766333.85	Channel 2	39.75	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14876427.56	1766333.85	2	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-3	14876266.92	1766171.36	Channel 2	454.78	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14876266.92	1766171.36	0	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-30	14876432.61	1766335.72	Channel 2	28.02	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14876432.61	1766335.72	3	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-32	14876441.37	1766366.7	Channel 2	126.85	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14876441.37	1766366.7	1	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-33	14876443.98	1766373.61	Channel 2	15.63	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14876443.98	1766373.61	1	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-34	14876453.59	1766381.26	Channel 2	43.25	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	0	14876453.59	1766381.26	3	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-35	14876464.37	1766390.92	Channel 2	32.27	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14876464.37	1766390.92	3	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-36	14876472.97	1766402.82	Channel 2	272.52	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14876472.97	1766402.82	3	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-37	14876480.91	1766411.64	Channel 2	63.46	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14876480.91	1766411.64	1	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-38	14876493.62	1766420.27	Channel 2	63.33	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	0	14876493.62	1766420.27	1	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-39	14876512.55	1766421.77	Channel 2	65.53	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14876512.55	1766421.77	1	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-4	14876285.01	1766189.15	Channel 2	613.27	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14876285.01	1766189.15	0	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-40	14876529.84	1766413.43	Channel 2	12.96	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14876529.84	1766413.43	2	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-41	14876552.07	1766431.75	Channel 2	80.87	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14876552.07	1766431.75	4	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-42	14876554.05	1766435.64	Channel 2	85.48	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14876554.05	1766435.64	4	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-43	14876555.88	1766438.47	Channel 2	69.39	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14876555.88	1766438.47	4	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-44	14876559.18	1766446.14	Channel 2	298.41	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14876559.18	1766446.14	1	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-45	14876565.95	1766462.64	Channel 2	24.33	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14876565.95	1766462.64	1	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-46	14876579.34	1766471.26	Channel 2	46.69	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14876579.34	1766471.26	1	5/19/2012	Eric Kidder	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	FOA-N-47	14876590.11	1766480.35	Channel 2	26.71	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14876590.11	1766480.35	1	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-48	14876593.15	1766484.17	Channel 2	41.22	White's XLT	Cultural Debris	Bolt	1	Bolt		0	14876593.15	1766484.17	3	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-49	14876597.71	1766488.81	Channel 2	89.92	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	1.5	0	14876597.71	1766488.81	1	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-492	14877783.5	1768513.99	Channel 2	9.13	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	0	14877783.5	1768513.99	2	5/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-493	14877792.53	1768523.31	Channel 2	13.80	White's XLT	Cultural Debris	Wire	1	Wire	0.02	0	14877792.53	1768523.31	1	5/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-50	14876605.91	1766493.74	Channel 2	46.55	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14876605.91	1766493.74	2	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-51	14876608	1766495.69	Channel 2	37.19	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14876608	1766495.69	2	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-52	14876615.78	1766499.91	Channel 2	42.08	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	0	14876615.78	1766499.91	1	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-53	14876622.85	1766505.35	Channel 2	10.85	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14876622.85	1766505.35	2	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-54	14876630.43	1766509.2	Channel 2	47.34	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	0	14876630.43	1766509.2	2	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-55	14876638.83	1766512.79	Channel 2	46.26	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14876638.83	1766512.79	2	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-56	14876648.35	1766522.6	Channel 2	28.72	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14876648.35	1766522.6	0	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-57	14876650.4	1766526.97	Channel 2	66.92	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14876650.4	1766526.97	0	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-570	14878294.87	1769091.93	Channel 2	28.37	White's XLT	Geology	Hot Rock	1	Geology		0	14878294.87	1769091.93	1	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-576	14878445.59	1769206.04	Channel 2	1670.47	White's XLT	Cultural Debris	Pipe	1	Pipe		0	14878445.59	1769206.04	2	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-578	14878452.39	1769211.54	Channel 2	1523.14	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris		0	14878452.39	1769211.54	1	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-579	14878468.48	1769227.79	Channel 2	7502.20	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris		0	14878468.48	1769227.79	0	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-58	14876656.66	1766541.2	Channel 2	21.92	White's XLT	Cultural Debris	Wire	1	Wire	0.01	0	14876656.66	1766541.2	1	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-580	14878609.82	1769358.2	Channel 2	7.31	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14878609.82	1769358.2	2	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-72	14878987.43	1769541.09	Channel 2	33.17	White's XLT	Munitions Debris	Frag	1	Fragment	1	0	14878987.43	1769541.09	2	5/20/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-N-582	14878664.71	1769487.33	Channel 2	160.78	White's XLT	Cultural Debris	Asphalt	1	Asphalt		0	14878664.71	1769487.33	0	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-583	14878675.96	1769496.32	Channel 2	383.23	White's XLT	Geology	Hot Rock	1	Geology		0	14878675.96	1769496.32	0	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-581	14878646.5	1769434.13	Channel 2	12.19	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	0	14878646.5	1769434.13	2	5/20/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-N-585	14878745.19	1769546.06	Channel 2	8.36	White's XLT	Cultural Debris	Cable	1	Cable		0	14878745.19	1769546.06	1	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-586	14878766.42	1769601.19	Channel 2	14.81	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14878766.42	1769601.19	3	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-587	14878766.01	1769616.1	Channel 2	11.97	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14878766.01	1769616.1	1	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-588	14878785.07	1769685.41	Channel 2	12.98	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		0	14878785.07	1769685.41	2	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-589	14878786.67	1769691.65	Channel 2	30.33	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14878786.67	1769691.65	1	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-59	14876661.08	1766560.46	Channel 2	10.73	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14876661.08	1766560.46	2	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-584	14878738.58	1769530.07	Channel 2	14.57	White's XLT	Munitions Debris	Fuze	1	Fuze Part	0.5	0	14878738.58	1769530.07	2	5/20/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-N-598	14878896.78	1769784.65	Channel 2	19.68	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14878896.78	1769784.65	2	5/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-599	14878917.24	1769798.59	Channel 2	17.19	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14878917.24	1769798.59	3	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-60	14876673.15	1766613.58	Channel 2	7.20	White's XLT	Cultural Debris	Can	1	Can	0.02	0	14876673.15	1766613.58	1	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-600	14878989.14	1769931.25	Channel 2	47.47	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14878989.14	1769931.25	2	5/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-597	14878862.82	1769760.06	Channel 2	298.47	White's XLT	Munitions Debris	Frag	1	Fragment	2	0	14878862.82	1769760.06	2	5/20/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-N-602	14878986.97	1770004.31	Channel 2	10.36	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14878986.97	1770004.31	1	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-603	14878974.46	1770038.88	Channel 2	7.71	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14878974.46	1770038.88	3	5/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-604	14878960.95	1770088.32	Channel 2	19.94	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14878960.95	1770088.32	2	5/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-605	14878958.37	1770098.52	Channel 2	9.76	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14878958.37	1770098.52	2	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-601	14878988.05	1769940.49	Channel 2	7.91	White's XLT	Munitions Debris	Fuze	1	Munitions Debris	0.5	0	14878988.05	1769940.49	2	5/20/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-N-64	14876759.33	1766739.29	Channel 2	15.84	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	0	14876759.33	1766739.29	3	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-65	14876754.45	1766746.44	Channel 2	9.73	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14876754.45	1766746.44	1	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-66	14876758.1	1766759.85	Channel 2	7.83	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14876758.1	1766759.85	2	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-67	14876759.64	1766804.28	Channel 2	18.93	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14876759.64	1766804.28	1	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-68	14876765.2	1766824.87	Channel 2	10.54	White's XLT	Cultural Debris	Pipe	1	Pipe	0.5	0	14876765.2	1766824.87	4	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-69	14876773.99	1766847.87	Channel 2	11.16	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14876773.99	1766847.87	1	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-70	14876780.06	1766899.55	Channel 2	9.16	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	0	14876780.06	1766899.55	1	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-71	14876831.6	1767021.85	Channel 2	13.56	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14876831.6	1767021.85	2	5/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-606	14878956.78	1770118.99	Channel 2	10.35	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	0	14878956.78	1770118.99	2	5/20/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-N-772	14877917.91	1769406.53	Channel 2	258.43	White's XLT	Cultural Debris	Metal Scrap	4	Metal Scrap		0	14877917.91	1769406.53	2	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-773	14878022.16	1769563.24	Channel 2	32.41	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14878022.16	1769563.24	4	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-774	14878080.36	1769577.22	Channel 2	37.57	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire		0	14878080.36	1769577.22	2	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-775	14878081.61	1769578.26	Channel 2	38.55	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire. Debris too large to clear.		0	14878081.61	1769578.26	2	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-776	14878089.62	1769584.84	Channel 2	9.10	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire. Debris too large to clear.		0	14878089.62	1769584.84	3	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-777	14878300.65	1769778.69	Channel 2	48.12	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14878300.65	1769778.69	1	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-778	14878311.9	1769779.08	Channel 2	18.95	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14878311.9	1769779.08	0	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-779	14876848.16	1767061.09	Channel 2	11.06	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14876848.16	1767061.09	1	5/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-796	14877284.91	1767476.49	Channel 2	26.71	White's XLT	Munitions Debris	Projectile	1	40 mm Armor Piercing	1	0	14877284.91	1767476.49	2	5/19/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-N-797	14878410.63	1769611.39	Channel 2	7.25	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	0	14878410.63	1769611.39	2	5/20/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-N-798	14878134.75	1769472.05	Channel 2	20.01	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14878134.75	1769472.05	6	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-799	14878128.64	1769463.19	Channel 2	69.55	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire. Debris too large to clear.		0	14878128.64	1769463.19	2	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-800	14878111.32	1769437.47	Channel 2	229.16	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14878111.32	1769437.47	3	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-801	14878030.61	1769373.7	Channel 2	12.91	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		0	14878030.61	1769373.7	1	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-802	14878027.84	1769366.76	Channel 2	129.36	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14878027.84	1769366.76	2	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-803	14878026.92	1769362.67	Channel 2	59.14	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14878026.92	1769362.67	2	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-804	14878027.27	1769354.2	Channel 2	168.28	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14878027.27	1769354.2	3	5/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-805	14878027.8	1769350.87	Channel 2	51.51	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14878027.8	1769350.87	3	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-806	14878028.54	1769348.42	Channel 2	81.45	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14878028.54	1769348.42	2	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-807	14878031.23	1769343.64	Channel 2	47.96	White's XLT	Cultural Debris	Metal Scrap	1	10x10 AREA SCRAP METAL BY ROASD		0	14878031.23	1769343.64	2	5/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-808	14878944.91	1770172.25	Channel 2	13.91	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	0	14878944.91	1770172.25	2	5/20/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-N-809	14878883.8	1770150.74	Channel 2	183.69	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		0	14878883.8	1770150.74	0	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-810	14878849.55	1770127.74	Channel 2	536.12	White's XLT	Cultural Debris	Other	1	10 x 10 slag area		0	14878849.55	1770127.74	1	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-823	14878762.92	1769886.29	Channel 2	7.42	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14878762.92	1769886.29	2	5/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-N-829	14878512.75	1769727.29	Channel 2	2891.70	White's XLT	Cultural Debris	Slag	1	10x10 slag area		0	14878512.75	1769727.29	2	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-83	14878844.52	1769470.17	Channel 2	153.49	White's XLT	Cultural Debris	Cable	1	Cable		0	14878844.52	1769470.17	0	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-830	14878503.44	1769718.01	Channel 2	41.70	White's XLT	Cultural Debris	Slag	1	Slag		0	14878503.44	1769718.01	1	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-831	14878494.07	1769701.6	Channel 2	23.51	White's XLT	Cultural Debris	Slag	1	Slag		0	14878494.07	1769701.6	2	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-832	14878490.22	1769693.46	Channel 2	12.89	White's XLT	Cultural Debris	Slag	1	Slag		0	14878490.22	1769693.46	1	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-N-833	14878487.54	1769681.62	Channel 2	22.85	White's XLT	Cultural Debris	Slag	1	Slag		0	14878487.54	1769681.62	6	5/20/2012	Eric Kidder	Left in place

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	FOA-N-834	14878483.02	1769663.57	Channel 2	41.92	White's XLT	Cultural Debris	Slag	1	Slag		0	14878483.02	1769663.57	2	5/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1354	14865485.66	1755464.04	Channel 2	115.83	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post. Debris too large to clear.		0	14865485.66	1755464.04	1	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1356	14865527.63	1755481.14	Channel 2	1676.02	White's XLT	Cultural Debris	Other	1	Monitoring Well		0	14865527.63	1755481.14	0	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1357	14865914.97	1755923.65	Channel 2	1531.43	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing. Debris too large to clear.		0	14865914.97	1755923.65	0	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1358	14865920.86	1755982.74	Channel 2	10.66	White's XLT	Cultural Debris	Other	1	hot soil		0	14865920.86	1755982.74	0	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1359	14866138.23	1756147.52	Channel 2	30.41	White's XLT	Cultural Debris	Nail Pit	3	Nail Pit		0	14866138.23	1756147.52	2	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1360	14866194.31	1756190.64	Channel 2	10.03	White's XLT	Geology	Hot Rock	3	Hot Rock. Debris too large to clear.		0	14866194.31	1756190.64	4	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1385	14866498.1	1756516.58	Channel 2	24.48	White's XLT	Cultural Debris	Nail Pit	3	Nail Pit		0	14866498.1	1756516.58	4	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1386	14866512.04	1756518.29	Channel 2	24.09	White's XLT	Cultural Debris	Nail	1	Nail	0.1	0	14866512.04	1756518.29	4	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1387	14866521.63	1756523.32	Channel 2	294.92	White's XLT	Cultural Debris	Nail	1	Angie Iron. Debris too large to clear.		0	14866521.63	1756523.32	3	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1388	14866524.71	1756527.83	Channel 2	32.80	White's XLT	Cultural Debris	Nail	1	Nail	0.1	0	14866524.71	1756527.83	3	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1425-1	14866879.14	1756909.35	Channel 2	12.66	White's XLT	Cultural Debris	Concrete	1	Concrete. Debris too large to clear.		0	14866879.14	1756909.35	0	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1425-2	14866879.14	1756909.35	Channel 2	12.66	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post	0.1	0	14866879.14	1756909.35	4	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1426	14866884.83	1756913.61	Channel 2	11.86	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		0	14866884.83	1756913.61	0	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1427	14866899.28	1756924.82	Channel 2	10.45	White's XLT	Cultural Debris	Nail	1	Nail	0.1	0	14866899.28	1756924.82	6	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1428	14866910.65	1756932.19	Channel 2	11.02	White's XLT	Cultural Debris	Aluminum	1	Aluminum	0.1	0	14866910.65	1756932.19	0	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1429	14866915.7	1756935.11	Channel 2	15.97	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap		0	14866915.7	1756935.11	3	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1436	14867182.97	1757212.86	Channel 2	168.38	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post. Debris too large to clear.		0	14867182.97	1757212.86	0	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1592	14867481.82	1757342.13	Channel 2	19.42	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire		0	14867481.82	1757342.13	2	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1593	14867512.56	1757337.74	Channel 2	318.46	White's XLT	Cultural Debris	Wire	1	Shared with target 1594		0	14867512.56	1757337.74	0	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1594	14867521.34	1757336.47	Channel 2	259.04	White's XLT	Cultural Debris	Wire	1	Shared with target 1593		0	14867521.34	1757336.47	0	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1595	14867526.67	1757319.48	Channel 2	342.24	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		0	14867526.67	1757319.48	2	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1596	14867526.11	1757302.26	Channel 2	196.87	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		0	14867526.11	1757302.26	2	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1597	14867525.15	1757294.84	Channel 2	19.97	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		0	14867525.15	1757294.84	3	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1598	14867525.41	1757283.24	Channel 2	664.84	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14867525.41	1757283.24	4	4/22/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1599	14867534.13	1757283.35	Channel 2	106.95	White's XLT	Cultural Debris	Metal Scrap	1	pot pie foil.	0.02	0	14867534.13	1757283.35	6	4/22/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1600	14867545.94	1757289.74	Channel 2	97.07	White's XLT	Cultural Debris	Asphalt	1	Asphalt. Debris too large to clear.		0	14867545.94	1757289.74	0	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1651	14867476.6	1757530.71	Channel 2	18.58	White's XLT	Cultural Debris	Nail	1	Nail	0.1	0	14867476.6	1757530.71	2	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1741	14867686.83	1758048.87	Channel 2	44.14	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		0	14867686.83	1758048.87	4	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1742	14867684.45	1758048.21	Channel 2	37.89	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post. Debris too large to clear.		0	14867684.45	1758048.21	0	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1743	14867658.89	1758045.94	Channel 2	21.21	White's XLT	Cultural Debris	Cable	1	Cable	0.1	0	14867658.89	1758045.94	2	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-723	14865213.36	1756656.12	Channel 2	55.58	White's XLT	Munitions Debris	Mortar	1	60mm, Illumination, Expended	2	0	14865213.36	1756656.12	6	4/22/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-S-1745	14867649.91	1758045.84	Channel 2	133.91	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14867649.91	1758045.84	4	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1744	14867653.68	1758046.49	Channel 2	40.10	White's XLT	Munitions Debris	Flare	1	Flare, Expended	0.5	0	14867653.68	1758046.49	6	4/29/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-S-1747	14867638.21	1758044.9	Channel 2	62.86	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14867638.21	1758044.9	2	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1748	14867546.4	1757952.97	Channel 2	8.96	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14867546.4	1757952.97	4	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1749	14867490.49	1757899.82	Channel 2	8859.96	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14867490.49	1757899.82	0	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1746	14867642.13	1758046.94	Channel 2	16.09	White's XLT	Munitions Debris	Mortar	1	60mm, Tail Boom Assembly	0.5	0	14867642.13	1758046.94	0	4/29/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-S-1751	14867324.48	1757747.7	Channel 2	45.01	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14867324.48	1757747.7	0	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1752	14867322.62	1757745.6	Channel 2	52.69	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14867322.62	1757745.6	2	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1753	14867314.59	1757737.42	Channel 2	42.99	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	0	14867314.59	1757737.42	1	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1828	14867051.37	1757439.17	Channel 2	179.95	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14867051.37	1757439.17	0	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1870	14866404.21	1756685.57	Channel 2	147.65	White's XLT	No Contact		1	No Contact						4/29/2012	Eric Kidder	NA
Former Operational Area	FOA-S-1871	14865937.72	1756308.54	Channel 2	19.16	White's XLT	Cultural Debris	Wire	3	Wire	0.1	0	14865937.72	1756308.54	4	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1872	14865908.19	1756286.83	Channel 2	16.40	White's XLT	Cultural Debris	Nail	4	Nail. Debris too large to clear.		0	14865908.19	1756286.83	0	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1873	14865861.16	1756235.22	Channel 2	11.63	White's XLT	Geology	Hot Rock	4	Hot Rock. Debris too large to clear.		0	14865861.16	1756235.22	2	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1874	14865825.93	1756179.82	Channel 2	378.41	White's XLT	Cultural Debris	Can	1	Can	0.01	0	14865825.93	1756179.82	1	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1875	14865825.15	1756178.81	Channel 2	364.84	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14865825.15	1756178.81	1	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1876	14865818.21	1756162.81	Channel 2	112.02	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14865818.21	1756162.81	0	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1896	14865578.26	1755907.85	Channel 2	41.27	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	0	14865578.26	1755907.85	6	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1897	14865576.91	1755906.13	Channel 2	30.90	White's XLT	Cultural Debris	Metal Scrap	1	Shared with target 1896	2	0	14865576.91	1755906.13	6	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1750	14867413.61	1757830.76	Channel 2	47.70	White's XLT	Munitions Debris	Flare	1	Flare, Expended	0.1	0	14867413.61	1757830.76	0	4/29/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-S-1901	14865376.26	1755727.22	Channel 2	7.31	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14865376.26	1755727.22	4	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1902	14865336.49	1755681.34	Channel 2	9204.63	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14865336.49	1755681.34	0	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1924	14865234.39	1755935.62	Channel 2	4283.84	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	0	14865234.39	1755935.62	6	4/22/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1926	14865462.32	1756306.42	Channel 2	142.86	White's XLT	Cultural Debris	Metal Scrap	1	telephone pole. Debris too large to clear.		0	14865462.32	1756306.42	4	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1927	14865440.18	1756347.81	Channel 2	18.61	White's XLT	Cultural Debris	Wire	1	Wire. Debris too large to clear.		0	14865440.18	1756347.81	0	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1946	14865994.56	1756660.4	Channel 2	1721.46	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14865994.56	1756660.4	0	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1947	14866056.06	1756713.02	Channel 2	11.66	White's XLT	Cultural Debris	Bolt	1	Bolt. Debris too large to clear.		0	14866056.06	1756713.02	0	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1948	14866089.99	1756770.61	Channel 2	36.91	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14866089.99	1756770.61	6	4/22/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1949	14866103.61	1756790.14	Channel 2	1128.51	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14866103.61	1756790.14	0	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1950	14866108.72	1756807.3	Channel 2	25.29	White's XLT	Cultural Debris	Rebar	1	Rebar. Debris too large to clear.		0	14866108.72	1756807.3	0	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1951	14866108.95	1756817.22	Channel 2	14.70	White's XLT	Cultural Debris	Metal Scrap	1	banding	0.02	0	14866108.95	1756817.22	1	4/22/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1952	14866104.15	1756829.1	Channel 2	108.46	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14866104.15	1756829.1	1	4/22/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-1953	14866102.93	1756832.89	Channel 2	95.64	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14866102.93	1756832.89	1	4/22/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-2115	14866916.7	1757549.02	Channel 2	14.02	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	0	14866916.7	1757549.02	3	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-2116	14866880.08	1757588.03	Channel 2	20.78	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14866880.08	1757588.03	3	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-2168	14866868.7	1757607.24	Channel 2	19.17	White's XLT	Cultural Debris	Nail	1	Nail	0.1	0	14866868.7	1757607.24	4	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-2169	14867075.62	1757821.96	Channel 2	11.35	White's XLT	Cultural Debris	Wire	1	Wire	0.1	0	14867075.62	1757821.96	2	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-2170	14867195.56	1757946.03	Channel 2	41.02	White's XLT	Cultural Debris	Wire	3	Wire. Debris too large to clear.		0	14867195.56	1757946.03	2	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-2171	14867255.38	1757984.99	Channel 2	25.17	White's XLT	Cultural Debris	Wire	2	Wire. Debris too large to clear.		0	14867255.38	1757984.99	1	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-2172	14867303.25	1758022.49	Channel 2	9.09	White's XLT	Cultural Debris	Wire	1	Wire. Debris too large to clear.		0	14867303.25	1758022.49	1	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-2173	14867308.82	1758027.6	Channel 2	10.25	White's XLT	Cultural Debris	Wire	1	Wire. Debris too large to clear.		0	14867308.82	1758027.6	1	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-2174	14867399.2	1758112.11	Channel 2	3504.93	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14867399.2	1758112.11	0	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-2233	14867018.01	1758124.41	Channel 2	180.12	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post	0.1	0	14867018.01	1758124.41	1	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-2234	14866718.49	1757820.89	Channel 2	12.58	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14866718.49	1757820.89	1	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-2247	14865986.75	1757051.08	Channel 2	16.48	White's XLT	Cultural Debris	Metal Scrap	1	slag.	1	0	14865986.75	1757051.08	6	4/22/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-2249	14865940.53	1757010.01	Channel 2	55.80	White's XLT	Cultural Debris	Pipe	1	Pipe	0.5	0	14865940.53	1757010.01	8	4/22/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-2250	14865902.07	1756972.9	Channel 2	12.94	White's XLT	No Contact		1	No Contact						4/22/2012	Eric Kidder	NA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	FOA-S-2251	14865901.15	1756968.3	Channel 2	39.86	White's XLT	No Contact		1	No Contact						4/22/2012	Eric Kidder	NA
Former Operational Area	FOA-S-2252	14865897.52	1756962.86	Channel 2	18.81	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14865897.52	1756962.86	6	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-2253	14865867.49	1756951.96	Channel 2	1612.00	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14865867.49	1756951.96	6	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-2254	14865859.04	1756944.61	Channel 2	176.41	White's XLT	Cultural Debris	Bolt	1	Bolt	0.02	0	14865859.04	1756944.61	4	4/22/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-2255	14865856.09	1756926.96	Channel 2	629.50	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14865856.09	1756926.96	6	4/22/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-2256	14865852.14	1756909.7	Channel 2	142.73	White's XLT	Cultural Debris	Metal Scrap	1	plank and spade. Debris too large to clear.		0	14865852.14	1756909.7	0	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-2257	14865850.4	1756907.25	Channel 2	145.11	White's XLT	Cultural Debris	Can	1	Can		0	14865850.4	1756907.25	4	4/22/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-2375	14865370.92	1756426.19	Channel 2	12.64	White's XLT	Geology	Hot Rock	1	Hot Rock		0	14865370.92	1756426.19	4	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-2376	14865318.51	1756381.36	Channel 2	13.03	White's XLT	Geology	Hot Rock	1	Hot Rock		0	14865318.51	1756381.36	4	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-690	14867339.63	1756678.91	Channel 2	54.61	White's XLT	Cultural Debris	Pipe	4	Pipe	1	0	14867339.63	1756678.91	6	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-691-1	14867389.72	1756715.85	Channel 2	298.92	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14867389.72	1756715.85	3	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-691-2	14867389.72	1756715.85	Channel 2	298.92	White's XLT	Cultural Debris	Wire	1	Wire	0.5	0	14867389.72	1756715.85	2	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-692	14867485.47	1756789.67	Channel 2	48.52	White's XLT	Cultural Debris	Wire	1	Wire	0.1	0	14867485.47	1756789.67	3	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-693	14867486.06	1756792.22	Channel 2	54.01	White's XLT	Cultural Debris	Wire	1	Wire	0.5	0	14867486.06	1756792.22	2	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-694	14867524.64	1756859.51	Channel 2	155.33	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14867524.64	1756859.51	2	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-695	14867689.28	1756995.71	Channel 2	196.09	White's XLT	No Contact		1	No Contact						4/29/2012	Eric Kidder	NA
Former Operational Area	FOA-S-705	14867876.69	1757292.59	Channel 2	38.73	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14867876.69	1757292.59	0	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-710	14867895.51	1757326.85	Channel 2	182.57	White's XLT	Cultural Debris	Bolt	1	Bolt		0	14867895.51	1757326.85	0	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-719-1	14864970.15	1756379.87	Channel 2	18.77	White's XLT	Cultural Debris	Metal Scrap	1	banding	0.1	0	14864970.15	1756379.87	0	4/22/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-719-2	14864970.15	1756379.87	Channel 2	18.77	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14864970.15	1756379.87	4	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-720	14865003.77	1756406.72	Channel 2	12.30	White's XLT	Cultural Debris	Metal Scrap	1	cap.	0.01	0	14865003.77	1756406.72	6	4/22/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-721	14865155.04	1756586.57	Channel 2	379.59	White's XLT	Cultural Debris	55 Gallon Drum	1	Fence post. Debris too large to clear.		0	14865155.04	1756586.57	6	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-722	14865196.8	1756614.51	Channel 2	48.67	White's XLT	Cultural Debris	Wire	1	Wire. Debris too large to clear.		0	14865196.8	1756614.51	6	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-1900	14865433.14	1755819.33	Channel 2	121.85	White's XLT	Munitions Debris	Mortar	1	60mm, Illumination, Body, Expended	1	0	14865433.14	1755819.33	4	4/29/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-S-730	14865548.61	1756996.43	Channel 2	35.32	White's XLT	Cultural Debris	Metal Scrap	1	metal flag. metal cap.	0.1	0	14865548.61	1756996.43	8	4/22/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-731	14865795.36	1757226.44	Channel 2	24.94	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14865795.36	1757226.44	2	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-732	14866611.31	1758053.9	Channel 2	35.04	White's XLT	Cultural Debris	Wire	1	Wire	0.1	0	14866611.31	1758053.9	1	4/29/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-733	14866856.65	1758297.97	Channel 2	272.10	White's XLT	Cultural Debris	Aluminum	1	Aluminum		0	14866856.65	1758297.97	0	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-965	14867396.53	1757082.15	Channel 2	36.22	White's XLT	Cultural Debris	Nail Pit	4	Nail Pit		0	14867396.53	1757082.15	4	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-966	14867394.75	1757080.78	Channel 2	35.12	White's XLT	Cultural Debris	Rebar	1	Rebar. Debris too large to clear.		0	14867394.75	1757080.78	0	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-967	14867390.4	1757074.44	Channel 2	124.46	White's XLT	Cultural Debris	Nail	2	Nail	0.02	0	14867390.4	1757074.44	4	4/22/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-969	14867287.5	1756947.34	Channel 2	44.15	White's XLT	Cultural Debris	Metal Scrap	1	rod with washer.	2	0	14867287.5	1756947.34	6	4/22/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-970	14867151.85	1756816.37	Channel 2	7.30	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14867151.85	1756816.37	2	4/22/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-971	14867130.01	1756816.04	Channel 2	32.72	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	0	14867130.01	1756816.04	6	4/22/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-972	14866947.02	1756648.16	Channel 2	332.46	White's XLT	Cultural Debris	Pipe	1	elbow Debris too large to clear.		0	14866947.02	1756648.16	4	4/22/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-973	14866937.1	1756642.05	Channel 2	10.44	White's XLT	Cultural Debris	Nail	4	Nail	0.01	0	14866937.1	1756642.05	8	4/22/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-974	14866925.04	1756627.2	Channel 2	35.98	White's XLT	Cultural Debris	Nail	1	Nail	0.01	0	14866925.04	1756627.2	2	4/22/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-975	14866922.21	1756623.53	Channel 2	44.58	White's XLT	Cultural Debris	Nail	1	Nail	0.01	0	14866922.21	1756623.53	6	4/22/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-S-976	14866898.42	1756605.73	Channel 2	341.41	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14866898.42	1756605.73	6	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-977	14866896.67	1756604.82	Channel 2	351.03	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14866896.67	1756604.82	6	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-978	14866895.58	1756604.05	Channel 2	345.06	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14866895.58	1756604.05	6	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-979	14866894.19	1756602.42	Channel 2	334.38	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14866894.19	1756602.42	6	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-980	14866887.18	1756598.32	Channel 2	438.94	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14866887.18	1756598.32	6	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-981	14866885.74	1756597.14	Channel 2	464.88	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14866885.74	1756597.14	0	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-982	14866884.56	1756595.78	Channel 2	458.68	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14866884.56	1756595.78	6	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-983	14866883.4	1756594.57	Channel 2	509.20	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14866883.4	1756594.57	6	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-984	14866881.28	1756592.83	Channel 2	628.34	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14866881.28	1756592.83	6	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-985	14866870.75	1756574.33	Channel 2	9682.56	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post. Debris too large to clear.		0	14866870.75	1756574.33	0	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-986	14866860.33	1756552.61	Channel 2	61.15	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post. Debris too large to clear.		0	14866860.33	1756552.61	0	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-987	14866841.33	1756543.46	Channel 2	388.80	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post. Debris too large to clear.		0	14866841.33	1756543.46	0	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-988	14866818.65	1756528.75	Channel 2	78.94	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post. Debris too large to clear.		0	14866818.65	1756528.75	0	4/22/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-989	14866576.88	1756226.39	Channel 2	7.26	White's XLT	Cultural Debris	Slag	1	Slag		0	14866576.88	1756226.39	3	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-990	14866558.06	1756220.43	Channel 2	7.28	White's XLT	Cultural Debris	Slag	1	Slag		0	14866558.06	1756220.43	3	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-991	14866552.73	1756216.67	Channel 2	7.81	White's XLT	Cultural Debris	Slag	1	Slag		0	14866552.73	1756216.67	2	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-S-999	14866328.32	1755986.74	Channel 2	33.54	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14866328.32	1755986.74	2	4/29/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T18-1001-1	14864727.66	1756800.985	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	4	Iron Ore Veins in Rocks.		NA	-	-	8	4/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T18-1002-1	14864745.94	1756814.711	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Soda Can	0.5	NA	-	-	18	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1001	14864728.74	1756797.112	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	4	Hot rock, left next to dig location.		NA	-	-	18	4/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T19-1002	14864743.36	1756807.818	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Soda Can	0.01	NA	-	-	24	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1003	14864742.65	1756812.517	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot rock, left next to dig location.		NA	-	-	9	4/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T19-1004	14864761.26	1756819.883	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot rock, left next to dig location.		NA	-	-	15	4/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T19-1005	14864759.87	1756833.152	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Scrap Aluminum	1	NA	-	-	0	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1006	14864765.3	1756827.325	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Steel Locking Ring	0.5	NA	-	-	15	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1007	14864733.89	1756808.692	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Soda Can	0.01	NA	-	-	6	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1008	14864745.23	1756817.751	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Water pipe, attached to spigot		NA	-	-	0	4/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T19-1009	14864737.93	1756815.026	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Water Pipe		NA	-	-	8	4/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T09-1008	14861724.8	1757337.043	Mag & Dig	Analog	White's XLT	Munitions Debris	Canister	1	Smoke Canister, expended	0.01	NA	-	-	4	4/19/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T19-1011	14864896.14	1756995.472	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Small Wire	0	NA	-	-	4	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1012	14864950.67	1757049.074	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Small Piece of Sheet Metal	0.02	NA	-	-	12	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1030	14865168.85	1760840.916	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	3	NA	-	-	1	4/25/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T11-1014	14863829.6	1758764.432	Mag & Dig	Analog	White's XLT	Munitions Debris	Flare	1	Flare, Expended	1	NA	-	-	2	4/20/2012	Jason Leseiko	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T12-1012	14864408.83	1759016.562	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	5	NA	-	-	4	4/20/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T19-1016	14865212.1	1757336.19	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Soda Can	0.01	NA	-	-	12	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1017	14865224.84	1757335.853	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0	NA	-	-	4	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1018	14865222.1	1757369.845	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	3 Inch Pipe	0.5	NA	-	-	4	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1019	14865233.77	1757373.655	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Scrap Aluminum Gutter	0.01	NA	-	-	3	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1020	14865236.33	1757375.853	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	0	4/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T19-1021	14864713.08	1756798.572	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Small Scrap Aluminum	0.01	NA	-	-	3	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1022	14864717.42	1756791.366	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Small piece of iron.	1	NA	-	-	4	4/5/2012	Rick Shellenbarger	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	FOA-T19-1023	14864702.01	1756768.239	Mag & Dig	Analog	White's XLT	Cultural Debris	Scrap	1	Ordinance Shipping Container Lid	1	NA	-	-	4	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1024	14864530.54	1756631.224	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Well Opening		NA	-	-	0	4/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T19-1025	14864522.12	1756623.803	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	0.02	NA	-	-	3	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1026	14864542.93	1756632.543	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post	4	NA	-	-	1	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1027	14864535.26	1756629.544	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Can	0.01	NA	-	-	3	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1028	14864550.62	1756642.453	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	NA	-	-	3	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1029	14864555.74	1756644.638	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Piece of Steel	3.5	NA	-	-	15	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1030	14864569.24	1756649.819	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	3	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1031	14864575.04	1756645.65	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	Expended Blank Ammunition	0.01	NA	-	-	4	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1032	14864574.35	1756652.007	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	End Cap of Fence Post	0.5	NA	-	-	3	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1033	14864603.63	1756683.081	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		NA	-	-	3	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1034	14864608.48	1756707.087	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	1.5	NA	-	-	4	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1035	14864603.29	1756687.778	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	2	Bolt	0.5	NA	-	-	6	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1036	14864625.21	1756702.587	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	6	Metal Scrap	0.5	NA	-	-	15	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1037	14864624.45	1756695.961	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	5	Hot Rock		NA	-	-	6	4/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T19-1038	14864607.69	1756693.558	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	2	Bolt	0.5	NA	-	-	24	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1039	14864636.52	1756707.231	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Spike	1	NA	-	-	8	4/5/2012	Rick Shellenbarger	Transferred to PTA Archaeologist
Former Operational Area	FOA-T19-1040	14864614.28	1756702.642	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Drum Lid	5	NA	-	-	12	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1041	14864665.46	1756741.068	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Piece of Steel	3	NA	-	-	21	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1042	14864630.77	1756723.001	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Bracket	0.01	NA	-	-	8	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1043	14864653.81	1756743.332	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	14	Small Rusted Pieces of Debris	1.5	NA	-	-	39	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1044	14864660.04	1756748.826	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0	NA	-	-	6	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T19-1045	14864656.05	1756753.265	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	9	Metal scrap. Debris too large to clear.	0.5	NA	-	-	15	4/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T19-1046	14864660.44	1756757.388	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	5	NA	-	-	9	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T18-1001-2	14864727.66	1756800.985	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	2	Piping sticking out of ground.		NA	-	-	0	4/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T18-1002-2	14864745.94	1756814.711	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire. Debris too large to clear.	0.5	NA	-	-	6	4/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T18-1003	14863832.98	1756231.261	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Large Steel Scrap	15	NA	-	-	2	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T18-1004	14863861.79	1756239.686	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Steel Scrap	1.5	NA	-	-	8	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T18-1005	14863847.92	1756233.955	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Steel Slag	0.5	NA	-	-	12	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T18-1006	14863957.09	1756290.058	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	6ft pipe		NA	-	-	2	4/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T18-1007	14864028.09	1756360.162	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2.5	NA	-	-	4	4/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T18-1008	14864017.44	1756343.359	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Granite Slab with Ore Veins		NA	-	-	33	4/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T18-1009	14864037.65	1756378.624	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot rock		NA	-	-	30	4/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T13-1001	14863976.29	1758150.735	Mag & Dig	Analog	White's XLT	Munitions Debris	Mortar	1	81mm, Tail Boom	0.1	NA	-	-	0	4/11/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T13-1004	14863930.84	1758167.528	Mag & Dig	Analog	White's XLT	Munitions Debris	Mortar	1	81mm, Tail Boom	0.1	NA	-	-	0	4/11/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T13-903	14864351	1758587.296	Mag & Dig	Analog	White's XLT	DMM	Mortar	1	Fuzed M302 60mm White Phosphorus		NA	-	-	3	4/11/2012	Rick Shellenbarger	EOD Response and Disposition
Former Operational Area	FOA-T13-904	14864447.15	1758661.962	Mag & Dig	Analog	White's XLT	Munitions Debris	Other MD	1	Fragmentation	2	NA	-	-	4	4/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T14-1103	14864376.41	1758269.774	Mag & Dig	Analog	White's XLT	Munitions Debris	Mortar	1	Illumination, 60mm, expended	0.02	NA	-	-	2	4/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T14-1105	14863952.59	1757847.533	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Fuzed M43 81mm mortar, Practice	3.5	NA	-	-	3	4/11/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T18-1101	14864632.92	1757092.319	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Water Pipe		NA	-	-	0	4/6/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T16-1102	14864251.8	1757361.832	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	More than 100' of wire, covered by roots		NA	-	-		4/6/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T14-1106	14863691.88	1757633.884	Mag & Dig	Analog	White's XLT	Munitions Debris	Mortar	1	Illumination, 60mm, expended	0.5	NA	-	-	6	4/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T14-1109	14862440.08	1756273.854	Mag & Dig	Analog	White's XLT	Munitions Debris	Fuze	1	M57, Fuze, expended	0.5	NA	-	-	18	4/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T14-1117	14865650.39	1759529.214	Mag & Dig	Analog	White's XLT	Munitions Debris	Projectile	1	105 mm Unknown, empty	20	NA	-	-	1	4/27/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T15-1003	14864651.13	1758143.027	Mag & Dig	Analog	White's XLT	Munitions Debris	Mortar	1	Illumination, 60mm, expended	0.02	NA	-	-	2	4/11/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T15-1006	14864004.98	1757535.405	Mag & Dig	Analog	White's XLT	Munitions Debris	SubCal	3	22mm subcaliber, empty	0.02	NA	-	-	3	4/11/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T15-1007	14863995.39	1757510.034	Mag & Dig	Analog	White's XLT	Munitions Debris	SubCal	2	22mm, Subcal tail section	0.02	NA	-	-	2	4/11/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T16-1107	14863854.25	1757093.867	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	12	7.62x51 saa	0.02	NA	-	-	6	4/6/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T15-1008	14863980.51	1757520.606	Mag & Dig	Analog	White's XLT	Munitions Debris	SubCal	1	Smoke, 22mm, Tail Boom	0.01	NA	-	-	2	4/11/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T16-1001	14864684.49	1757964.414	Mag & Dig	Analog	White's XLT	Munitions Debris	Mortar	1	Illumination, 60mm, Tail Boom	0.1	NA	-	-	4	4/6/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T16-1110	14864331.1	1757417.525	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Permanent water pipe		NA	-	-		4/6/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T16-1103	14864211.37	1757360.094	Mag & Dig	Analog	White's XLT	Munitions Debris	Spacer	1	Illumination candle spacer	0.1	NA	-	-	4	4/6/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T13-901	14864055.95	1758280.18	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	4	4/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T13-902	14864335.4	1758599.529	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other. Debris too large to clear.		NA	-	-	0	4/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T16-1104	14864018.54	1757176.225	Mag & Dig	Analog	White's XLT	Munitions Debris	SubCal	1	22mm subcaliber, empty	0.1	NA	-	-	3	4/6/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T16-1105	14864049.1	1757169.447	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Fuzed M50 60mm Mortar, Practice	2.5	NA	-	-	6	4/6/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T12-901	14863878.95	1758430.491	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Culvert		NA	-	-	6	4/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T12-902	14863901.97	1758445.296	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	1	4/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T12-903	14863995.25	1758529.094	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	3	4/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T12-904	14864002.89	1758527.396	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Buried infrastructure		NA	-	-	12	4/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T18-1102	14864513.43	1756936.27	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	0	4/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T18-1103	14864516.32	1756931.837	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	0	4/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T18-1104	14864515.53	1756918.857	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	0	4/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T15-1001	14864324.07	1757769.213	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	0	4/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T18-1105	14864237.2	1756600.865	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	2	Steel fence posts	10	NA	-	-	8	4/11/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T15-1002	14864584.2	1758085.064	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	Blank Ammunition	0.01	NA	-	-	12	4/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T16-1106	14863978.03	1757160.399	Mag & Dig	Analog	White's XLT	Munitions Debris	SubCal	1	22mm subcaliber, empty	0.1	NA	-	-	3	4/6/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T16-1108	14863997.15	1757122.458	Mag & Dig	Analog	White's XLT	Munitions Debris	Mine	1	Fragmentation Mine, M26 AP Mine, Wax Filled	1.5	NA	-	-	6	4/6/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T17-1001	14863993.51	1756819.165	Mag & Dig	Analog	White's XLT	Munitions Debris	SubCal	5	22mm subcaliber, empty	0.5	NA	-	-	3	4/6/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T15-1004	14864200.55	1757758.484	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable too long to remove		NA	-	-	4	4/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T15-1005	14864151.4	1757686.351	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable too long to remove		NA	-	-	0	4/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T17-1002	14864005.11	1756808.06	Mag & Dig	Analog	White's XLT	Munitions Debris	Fuze	2	60mm mortar Point Detonating Fuze, expended	0.02	NA	-	-	3	4/6/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T17-1003	14863966.04	1756787.251	Mag & Dig	Analog	White's XLT	Munitions Debris	SubCal	2	22mm subcaliber, empty	0.1	NA	-	-	3	4/6/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T18-1010	14864055.45	1756369.423	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Fuzed M43 81mm mortar, Practice	2.5	NA	-	-	18	4/5/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T18-1011	14864058.05	1756381.841	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Fuzed M43 81mm mortar, Practice	2.5	NA	-	-	8	4/5/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T18-1012	14864057.4	1756397.59	Mag & Dig	Analog	White's XLT	UXO	Mortar	2	Fuzed M43 81mm mortar, Practice	2.5	NA	-	-	8	4/5/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T18-1013	14864065.8	1756401.417	Mag & Dig	Analog	White's XLT	UXO	Mortar	2	Fuzed M43 81mm mortar, Practice	2.5	NA	-	-	12	4/5/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T12-905	14862668.02	1756563.933	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	3	Trash Dump		NA	-	-	0	4/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T14-1101	14864161.87	1758042.373	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Permanent Pipe		NA	-	-	0	4/11/2012	Rick Shellenbarger	Left in place

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	FOA-T15-1009	14863651.17	1757124.406	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	2	Blank Ammunition	0.01	NA	-	-	3	4/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T15-1010	14863616.83	1757103.303	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	6	Blank Ammunition	0.01	NA	-	-	4	4/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T14-1102	14864452.95	1758357.52	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe too large to remove		NA	-	-	0	4/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T15-1011	14863644.06	1757085.213	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	3	Blank Ammunition	0.01	NA	-	-	2	4/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T18-1014	14864065.8	1756401.417	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Fuzed M43 81mm mortar, Practice	2.5	NA	-	-	6	4/5/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T15-1012	14863418.08	1756899.563	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	9	Junk pile of aluminum, asphalt, and other debris		NA	-	-	0	4/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T14-1104	14863967.28	1757871.774	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	2 wells and coiled cable		NA	-	-	0	4/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T18-1015	14864078.17	1756399.148	Mag & Dig	Analog	White's XLT	UXO	Mortar	2	Fuzed M43 81mm mortar, Practice	2.5	NA	-	-	8	4/5/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T15-1013	14863357.66	1756833.276	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Sheet metal, construction debris, and 20'x20' scrap metal		NA	-	-	2	4/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T16-1111	14864403.14	1757627.116	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Unknown	0.5	NA	-	-	2	4/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T11-901	14862134.2	1756965.702	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	6	Nail Pit		NA	-	-	6	4/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T18-1106	14864216.86	1756536.322	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Fuzed M50 60mm mortar, Practice	2.5	NA	-	-	9	4/11/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T18-1107	14864158	1756490.2	Mag & Dig	Analog	White's XLT	Munitions Debris	Casing	1	20mm, Empty Casing	0.02	NA	-	-	3	4/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T18-1108	14864101.57	1756417.817	Mag & Dig	Analog	White's XLT	UXO	Mortar	4	Fuzed M43 81mm mortar, Practice	3.5	NA	-	-	9	4/11/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T13-1002	14863964.45	1758187.254	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	U Shaped engineering picket/stake	10	NA	-	-	0	4/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T13-1003	14863944.92	1758140.388	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable. Debris too large to clear.		NA	-	-	0	4/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T18-1109	14864093.55	1756416.474	Mag & Dig	Analog	White's XLT	UXO	Mortar	3	Fuzed M43 81mm mortar, Practice	3.5	NA	-	-	8	4/11/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T14-1107	14863325.21	1756900.837	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	20	Other. Debris too large to clear.		NA	-	-	0	4/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T13-1005	14863155.41	1757412.447	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other. Debris too large to clear.		NA	-	-	0	4/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T13-1006	14862953.61	1757253.75	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire. Debris too large to clear.		NA	-	-	0	4/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T13-1007	14862730.43	1756970.835	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T14-1108	14862483.38	1756340.222	Mag & Dig	Analog	White's XLT	Cultural Debris	55 Gallon Drum	1	55 Gallon Drum		NA	-	-	0	4/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T18-1110	14864076.78	1756412.411	Mag & Dig	Analog	White's XLT	UXO	Mortar	2	Fuzed M43 81mm mortar, Practice	3.5	NA	-	-	12	4/11/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T13-1008	14862170.39	1756312.995	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	10	Other. Debris too large to clear.		NA	-	-	0	4/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T11-1001	14861112.52	1755889.014	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	0	4/11/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T11-1002	14861971.74	1756885.261	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	6" wide pipe flange	0.1	NA	-	-	3	4/11/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T11-902	14862079.44	1756938.34	Mag & Dig	Analog	White's XLT	Cultural Debris	Spoon	1	Old Spoon	0.01	NA	-	-	6	4/12/2012	Rick Shellenbarger	Transferred to PTA Archaeologist
Former Operational Area	FOA-T11-903	14862586.95	1757426.25	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire. Debris too large to clear.		NA	-	-	6	4/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T11-904	14862628.06	1757490.692	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	8	4/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T23-901	14864947.27	1755658.818	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire. Debris too large to clear.		NA	-	-	0	4/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T23-902	14864947.27	1755658.818	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	6	4/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T23-903	14864624.6	1755357.331	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire. Debris too large to clear.		NA	-	-	0	4/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T13-1009	14861523.77	1755747.807	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	3	4/12/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T12-1001	14861072.74	1755641.386	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	NA	-	-	4	4/12/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T12-1002	14861167.89	1755659.719	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.02	NA	-	-	6	4/12/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T23-906	14864361.92	1755109.688	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	0	4/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T18-1111	14864087.66	1756403.795	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Fuzed M43 81mm mortar, Practice	3.5	NA	-	-	6	4/11/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-1-3	14863364.52	1756645.15	Channel 2	153.76	White's XLT	Munitions Debris	Mortar	1	60 mm Mortar Fin	1	0	14863364.52	1756645.15	6	5/10/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T11-1003	14860961.15	1755765.134	Mag & Dig	Analog	White's XLT	Cultural Debris	Vehicle Part	1	Vehicle Part	0.1	NA	-	-	6	4/12/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T16-1112	14862548.13	1755333.227	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	PVC well piping protruding from ground		NA	-	-	0	4/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T11-1004	14860896.68	1755764.892	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire. Debris too large to clear.	0.5	NA	-	-	0	4/12/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T24-901	14864269.46	1754580.581	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	0	4/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T18-1112	14863331.34	1755824.264	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Water Pipe		NA	-	-	0	4/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T24-902	14865309.02	1755678.641	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	0	4/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T23-905	14864361.92	1755109.688	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other. Debris too large to clear.		NA	-	-	0	4/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T25-901	14865416.38	1755431.733	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.02	NA	-	-	0	4/12/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T25-902	14865416.38	1755431.733	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other. Debris too large to clear.		NA	-	-	0	4/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T25-903	14865379.17	1755418.099	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	0.05	NA	-	-	0	4/12/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T25-904	14865379.01	1755386.06	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.05	NA	-	-		4/12/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T25-905	14865231.55	1755164.396	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	2	4/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T25-906	14864889.45	1754756.37	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	0	4/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T25-907	14864837.23	1754728.165	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	0	4/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T25-908	14864695.78	1754622.209	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	0	4/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T25-909	14864683.24	1754589.123	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	1	4/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T25-910	14864610.89	1754539.74	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	2 cans and a washer	1	NA	-	-	0	4/12/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T18-1115	14864039.82	1756376.956	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Fuzed M43 81mm mortar, Practice	3.5	NA	-	-	6	4/29/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T25-912	14864585.74	1754534.886	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1.5	NA	-	-	1	4/12/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T25-913	14864554.36	1754522.604	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Hatchet head	5	NA	-	-	4	4/12/2012	Rick Shellenbarger	Transferred to PTA Archaeologist
Former Operational Area	FOA-T25-914	14864507.46	1754462.333	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Washer	0.02	NA	-	-	1	4/12/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T17-1004	14862114.12	1754744.644	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt. Debris too large to clear.	0.02	NA	-	-	6	4/12/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T19-1047	14862581.96	1754632.477	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	0.02	NA	-	-	3	4/12/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T20-1101	14862748.54	1754430.023	Mag & Dig	Analog	White's XLT	Cultural Debris	55 Gallon Drum	1	55 Gallon Drum		NA	-	-	0	4/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T20-1102	14862748.54	1754430.023	Mag & Dig	Analog	White's XLT	Cultural Debris	Link	1	roll of steel fencing		NA	-	-	0	4/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T18-1116	14864036.22	1756385.258	Mag & Dig	Analog	White's XLT	UXO	Mortar	2	Fuzed M43 81mm mortar, Practice	3.5	NA	-	-	12	4/29/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T19-1049	14863530.82	1755648.726	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other		NA	-	-		4/12/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T19-1050	14863530.82	1755648.726	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-		4/12/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T20-1103	14863363.63	1755262.497	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	propane tank	4	NA	-	-	8	4/12/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T25-915	14863906.46	1753910.196	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	12	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T25-916	14863906.57	1753932.298	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	0.1	NA	-	-	6	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T25-917	14863905.54	1753947.22	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Steel Banding		NA	-	-	3	4/13/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T25-918	14863942.06	1753968.869	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock		NA	-	-	0	4/13/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T25-919	14864038.47	1754023.387	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock		NA	-	-	0	4/13/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T25-920	14864128.87	1754116.334	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	4	Metal Scrap		NA	-	-	3	4/13/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T25-921	14864131.11	1754127.649	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Metal Tie Down	0.01	NA	-	-	1	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T25-922	14864140.25	1754136.167	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron scrap. Debris too large to clear.	5	NA	-	-	4	4/13/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T26-1102	14864821.04	1754463.059	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire. Debris too large to clear.		NA	-	-	0	4/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T25-923	14864151.95	1754145.231	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Large Pipe. Debris too large to clear.		NA	-	-	6	4/13/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T26-1101	14864364.71	1753926.278	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Part of metal drum. Debris too large to clear.		NA	-	-	0	4/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T25-924	14864140.62	1754136.444	Mag & Dig	Analog	White's XLT	Cultural Debris	Concrete	1	Concrete. Debris too large to clear.		NA	-	-	3	4/13/2012	Eric Kidder	Left in place

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	FOA-T25-925	14864147.17	1754134.201	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	0.1	NA	-	-	3	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T25-926	14864153.75	1754141.907	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	NA	-	-	3	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T25-927	14864149.02	1754141.377	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	5	NA	-	-	4	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T26-1103	14864851.55	1754520.648	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	0	4/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T25-928	14864149.79	1754150.763	Mag & Dig	Analog	White's XLT	Cultural Debris	Rebar	1	Rebar	3.5	NA	-	-	3	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T26-1104	14864935.1	1754629.091	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot rock.		NA	-	-	6	4/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T25-929	14864155.21	1754142.729	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	10	NA	-	-	8	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T26-1105	14864933.76	1754654.784	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	0	4/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T25-930	14864193.6	1754095.035	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	8	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T25-931	14864233.08	1754125.785	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T25-932	14864226.54	1754129.134	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1.5	NA	-	-	4	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T26-1106	14865102.45	1754744.316	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Scrap Metal, possible MD.	0.5	NA	-	-	2	4/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T26-1107	14865153.58	1754775.011	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	NA	-	-	2	4/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T25-933	14864235.24	1754121.632	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	1	NA	-	-	6	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T25-934	14864236.04	1754136.548	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	0.5	NA	-	-	4	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T25-935	14864240.05	1754135.973	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	3	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T25-936	14864244.8	1754140.097	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	0.1	NA	-	-	4	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T26-1108	14865162.08	1754800.105	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	7	Nail Pit	0.01	NA	-	-	8	4/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T27-1101	14865741.82	1754937.407	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Banding	0.5	NA	-	-	0	4/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T28-1001	14864591.64	1753544.285	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	3	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1002	14864609.96	1753567.124	Mag & Dig	Analog	White's XLT	Small Arms	Primer	1	Shotgun Primer	0.01	NA	-	-	4	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1003	14864607.5	1753586.474	Mag & Dig	Analog	White's XLT	Cultural Debris	Chain	1	Chain	0.01	NA	-	-	4	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1004	14864663.14	1753646.154	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	6	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1005	14864655.15	1753650.614	Mag & Dig	Analog	White's XLT	Cultural Debris	Animal Trap	1	Animal Trap	0.5	NA	-	-	6	4/13/2012	Eric Kidder	Transferred to PTA Archaeologist
Former Operational Area	FOA-T28-1006	14864679.99	1753666.792	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	5	5' metal banding	0.5	NA	-	-	3	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1007	14864675.3	1753676.758	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	2	Wire	0.5	NA	-	-	3	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1008	14864691.91	1753723.364	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	0.1	NA	-	-	3	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1009	14864695.37	1753762.02	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock		NA	-	-	0	4/13/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T28-1010	14864800.52	1753740.536	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	2	Construction Debris	0.1	NA	-	-	3	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1011	14864852.84	1753790.286	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Aluminum	0.01	NA	-	-	2	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1012	14864843.74	1753791.986	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	3	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1013	14864865.22	1753788.297	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	2	NA	-	-	3	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1014	14864879.08	1753793.204	Mag & Dig	Analog	White's XLT	Cultural Debris	Bottle Top	1	Bottle Top	0.01	NA	-	-	3	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1015	14864883.19	1753815.836	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	4	Iron Scrap	0.5	NA	-	-	3	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1016	14864889.06	1753825.197	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	3	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1017	14864912.1	1753845.254	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.1	NA	-	-	2	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1018	14864932.8	1753831.621	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	NA	-	-	3	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1019	14864970.36	1753842.497	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	3	NA	-	-	1	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1020	14864982.5	1753867.853	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Small nut from bolt	0.01	NA	-	-	6	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1021	14864980	1753880.016	Mag & Dig	Analog	White's XLT	Cultural Debris	Vehicle Part	1	Vehicle Part	0.01	NA	-	-	3	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1022	14864991.45	1753911.456	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	1	NA	-	-	2	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1023	14864990.67	1753901.791	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.02	NA	-	-	1	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1024	14865133.88	1754072.932	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	6	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1025	14865158.47	1754112.038	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	NA	-	-	4	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1026	14865408.15	1754385.986	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	3	Nail	0.01	NA	-	-	4	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1027	14865399.09	1754395.973	Mag & Dig	Analog	White's XLT	Cultural Debris	Dog Tag	1	Dog tag chain.	0.01	NA	-	-	3	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1028	14865425.34	1754400.542	Mag & Dig	Analog	White's XLT	Small Arms	Primer	1	Shotgun Primer	0.01	NA	-	-	3	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T29-1101	14865244.49	1753739.282	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Tin Plate	0.02	NA	-	-	0	4/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T29-1102	14865516.46	1754107.041	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	12x12 sheet of scrap metal	0.5	NA	-	-	1	4/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T28-1029	14865552.25	1754514.3	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	3	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T30-1001	14865811.82	1754028.033	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Two 2'x2' pieces of sheet metal		NA	-	-	9	4/13/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T30-1002	14865815.9	1754042.651	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.1	NA	-	-	3	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T30-1003	14865814.53	1754061.993	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/13/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T30-1004	14865872.94	1754089.343	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other. Debris too large to clear.		NA	-	-	0	4/13/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T30-1005	14865842.01	1754095.565	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	3	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T30-1006	14865889.27	1754154.175	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	2	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T30-1007	14866329.44	1754584.931	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/13/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T30-1008	14866644.24	1754919.594	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire. Debris too large to clear.		NA	-	-	3	4/13/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T30-1009	14866664.01	1754939.661	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/13/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T30-1010	14866652.78	1754952.423	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.1	NA	-	-	4	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T30-1011	14866700.24	1754976.781	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	4	Barbed-wire. Debris too large to clear.		NA	-	-	3	4/13/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T30-1012	14866730.53	1754988.787	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	0	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T30-1013	14866742.62	1755004.474	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	2	Barbed-wire. Debris too large to clear.		NA	-	-	2	4/13/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T30-1014	14866766.29	1755004.088	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	4	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T30-1015	14866794.4	1755017.765	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	3	Construction Staples	0.01	NA	-	-	3	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T30-1016	14866898.55	1755091.295	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	2	Barbed-wire	0.1	NA	-	-	4	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T30-1017	14866863.96	1755093.116	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	3	Barbed-wire. Debris too large to clear.		NA	-	-	3	4/13/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T30-1018	14867047.21	1755182.563	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	2.5	NA	-	-	4	4/13/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T31-1101	14867103.46	1754986.193	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock		NA	-	-	0	4/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T31-1102	14867712.59	1755557.794	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Metal Stand	9	NA	-	-	0	4/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T26-1109	14865180.12	1754840.075	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	8	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T26-1110	14865184.39	1754897.232	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	piece of aluminum.	0.01	NA	-	-	3	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T26-1111	14865222.47	1754940.143	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	8	4/14/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T26-1112	14865259.69	1754954.333	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Drainage Ditch		NA	-	-	0	4/14/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T26-1113	14865263.79	1754975.306	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.1	NA	-	-	3	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T26-1114	14865273.52	1754953.438	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	4	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T26-1116	14865383.86	1755027.493	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	4	4/14/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T26-1117	14865383.86	1755027.493	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	5	NA	-	-	6	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T26-1118	14865381.77	1755047.394	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	8	4/14/2012	Rick Shellenbarger	Left in place

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	FOA-T26-1119	14865633.11	1755283.474	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	4	NA	-	-	4	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T26-1120	14865633.11	1755283.474	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	4	4/14/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T26-1121	14865633.11	1755283.474	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	3	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T26-1115	14865345.9	1755008.614	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.	40	NA	-	-	3	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T25-937	14864465.81	1754435.179	Mag & Dig	Analog	White's XLT	Cultural Debris	Horseshoe	1	Horse Shoe	1	NA	-	-	4	4/14/2012	Rick Shellenbarger	Transferred to PTA Archaeologist
Former Operational Area	FOA-T25-938	14864433.62	1754406.879	Mag & Dig	Analog	White's XLT	Cultural Debris	Horseshoe	1	Horse Shoe	1	NA	-	-	4	4/14/2012	Rick Shellenbarger	Transferred to PTA Archaeologist
Former Operational Area	FOA-T25-939	14864423.7	1754388.144	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	3	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T25-940	14864380.58	1754357.683	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	0	4/14/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T25-941	14864371.57	1754376.788	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	2	Blank Ammunition	0.01	NA	-	-	2	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T25-942	14864369.33	1754365.747	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Slag	10	NA	-	-	4	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T25-943	14864327.35	1754345.782	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Slag		NA	-	-	1	4/14/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T25-944	14864327.35	1754345.782	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Slag	6.5	NA	-	-	2	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T25-945	14864339.3	1754332.19	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Lead weights	15	NA	-	-	0	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T25-946	14864318.96	1754343.885	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	4	4/14/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T25-947	14864299.48	1754305.583	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Slag	2	NA	-	-	2	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T25-948	14864259.65	1754276.765	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	4	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T22-1001	14863749.31	1754799.062	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	10	50'x100' Trash Pit. Debris too large to clear.		NA	-	-	0	4/14/2012	Eric Kidder	Left in place
Former Operational Area	WBA-22-10	14863223.96	1756526.96	Channel 2	946.54	White's XLT	Munitions Debris	Projectile	1	20mm Projectile, Practice	0.1	0	14863223.96	1756526.96	30	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T22-1003	14863435.72	1754488.66	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	6	41013.44653	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T22-1004	14863381.25	1754446.928	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0.01	NA	-	-	2	4/14/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T22-1005	14863228.34	1754305.107	Mag & Dig	Analog	White's XLT	Cultural Debris	Rebar	1	Rebar	1	NA	-	-	3	4/14/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T27-1102	14865822.65	1755085.907	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post. Debris too large to clear.		NA	-	-	0	4/14/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T27-1103	14865865.37	1755107.799	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	2	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T27-1104	14865927.55	1755163.026	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Pain Can	0.1	NA	-	-	2	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T27-1105	14865890.18	1755193.861	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Slag	2	NA	-	-	3	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T27-1106	14865940.86	1755205.774	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	3	Hot Rock		NA	-	-	0	4/14/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-22-11	14863223.96	1756526.96	Channel 2	946.54	White's XLT	Munitions Debris	Fuze	1	Base Fuze, expended	1	0	14863223.96	1756526.96	30	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T27-1108	14865999.9	1755213.231	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	15	NA	-	-	3	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T27-1109	14865999.9	1755213.231	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	2	Wheels	30	NA	-	-	0	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T27-1110	14866440.04	1755709.978	Mag & Dig	Analog	White's XLT	Cultural Debris	Rebar	1	Rebar	2	NA	-	-	6	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T27-1111	14866486.47	1755747.321	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	NA	-	-	6	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T27-1112	14866497.78	1755749.2	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Slag	1	NA	-	-	4	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T27-1113	14866561.09	1755890.045	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	2	NA	-	-	6	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T27-1114	14866561.09	1755890.045	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2.5	NA	-	-	12	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T27-1115	14866561.09	1755890.045	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	2	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T27-1116	14866640.22	1755909.275	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Rebar cemented into ground		NA	-	-	0	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T27-1117	14866701.94	1755945.44	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other. Debris too large to clear.		NA	-	-	2	4/14/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T27-1118	14866698.7	1755953.742	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	4	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T27-1120	14866715.9	1755970.235	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Copper Wire	0.1	NA	-	-	0	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T27-1119	14866698.7	1755953.742	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Plate	8	NA	-	-	6	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T27-1121	14866769.77	1756039.306	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	6	4/14/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T27-1122	14866769.77	1756039.306	Mag & Dig	Analog	White's XLT	Cultural Debris	Rebar	1	Rebar attached to cement		NA	-	-	0	4/14/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T24-903	14863735.45	1754023.983	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0.01	NA	-	-	3	4/14/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1030	14866409.1	1755329.779	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	NA	-	-	3	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T24-904	14863685.36	1753904.055	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Aluminum	0.01	NA	-	-	2	4/14/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T23-908	14863378.16	1754101.632	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	10	Scattered trash next to highway. Debris too large to clear.		NA	-	-	0	4/14/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T22-1006	14863203.1	1754281.742	Mag & Dig	Analog	White's XLT	Cultural Debris	Concrete	1	Reinforced Concrete. Debris too large to clear.		NA	-	-	0	4/14/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T24-905	14863679.72	1753867.615	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	10	Can. Debris too large to clear.	0.01	NA	-	-	0	4/14/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T28-1031	14866401	1755312.419	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	4	Slag	3	NA	-	-	6	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T28-1032	14866374.06	1755314.48	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Slag	2.5	NA	-	-	6	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T21-1001	14862931.61	1754247.937	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	25	Trash pit. Debris too large to clear.		NA	-	-	0	4/14/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T18-1117	14864039.85	1756382.478	Mag & Dig	Analog	White's XLT	UXO	Mortar	2	Fuzed M43 81mm mortar, Practice	3.5	NA	-	-	15	4/29/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T21-1003	14863546.94	1754979.854	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0.01	NA	-	-	2	4/14/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T21-1004	14863557.79	1755042.513	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	4	4/14/2012	Eric Kidder	Transferred to PTA
Former Operational Area	WBA-22-12	14863223.96	1756526.96	Channel 2	946.54	White's XLT	Munitions Debris	Flare	1	Flare, Expended	0.5	0	14863223.96	1756526.96	30	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T18-1118	14864054.47	1756393.46	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Fuzed M43 81mm mortar, Practice	3.5	NA	-	-	8	4/29/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T29-1103	14867330.03	1755910.123	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	NA	-	-	8	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T29-1104	14867368.43	1755941.979	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	4	Other. Debris too large to clear.		NA	-	-	1	4/14/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T29-1105	14867378.89	1755997.445	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	6	Other. Debris too large to clear.		NA	-	-	2	4/14/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T29-1106	14867483.37	1756063.786	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	2	Slag	2.5	NA	-	-	1	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T32-1001	14868171.63	1755738.449	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	4' scrap metal	1	NA	-	-	3	4/14/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T30-1019	14868204.13	1756441.206	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	2	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T30-1020	14868147.38	1756379.608	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		NA	-	-	1	4/14/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T30-1021	14868145.49	1756364.429	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable	0.5	NA	-	-	3	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T32-1002	14868765.05	1756297.1	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/14/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T30-1022	14868073.06	1756223.089	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	2	Banding intertwined with tree roots		NA	-	-	2	4/14/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T32-1003	14869230.58	1756766.864	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0.01	NA	-	-	2	4/14/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T30-1023	14867729.48	1755968.7	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Arrow	0.02	NA	-	-	3	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T31-1103	14868314.47	1756209.503	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Fallen power pole, cable, box		NA	-	-	0	4/14/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T31-1104	14868811.72	1756686.852	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		NA	-	-	2	4/14/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T31-1105	14868818.81	1756721.341	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	4	NA	-	-	2	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T31-1106	14868869.59	1756753.41	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Fallen power pole, cable, and large pipe.		NA	-	-	0	4/14/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T31-1107	14868966.39	1756811.771	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	0.5	NA	-	-	6	4/14/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T31-1108	14868996.25	1756887.857	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-		4/14/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T32-1005	14869339.03	1756976.512	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	mylar balloon	0.01	NA	-	-	0	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T32-1006	14869356.39	1757025.867	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0.01	NA	-	-	1	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T32-1007	14869360.41	1757027.778	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0.01	NA	-	-	2	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T32-1008	14869809.63	1757435.729	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	hacksaw blade	0.02	NA	-	-	0	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1033	14867117.62	1756120.776	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	2	NA	-	-	2	4/18/2012	Eric Kidder	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	FOA-T28-1034	14867123.83	1756124.892	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	5	NA	-	-	1	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1035	14867359.32	1756321.246	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	2	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1036	14867533.43	1756476.743	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	2	Iron Scrap	1.5	NA	-	-	2	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T33-1001	14870112.52	1757331.802	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	3	Barbed-wire	0.02	NA	-	-	2	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1037	14867537.92	1756502.13	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	2	slag and ball bearings	15	NA	-	-	3	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T33-1002	14870147.48	1757332.188	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	3	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1038	14867534.63	1756500.215	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	slag	4	NA	-	-	1	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1039	14867587.61	1756534.206	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	2	NA	-	-	1	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T28-1040	14867601.9	1756552.646	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	6	4/18/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T28-1041	14867626.66	1756551.695	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	4	4/18/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T29-1107	14868220.21	1756830.558	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	3	4/18/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T29-1108	14868107.91	1756728.91	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	roll of film	0.02	NA	-	-	3	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T33-1007	14869447.01	1756707.821	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	0	4/18/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T33-1008	14869355.11	1756609.67	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	4	Can	0	NA	-	-	0	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T33-1009	14869146.85	1756394.144	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	spiral banding	0.01	NA	-	-	1	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T33-1010	14869150.05	1756379.768	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.1	NA	-	-	0	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T33-1003	14869831.95	1757079.082	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/18/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T33-1004	14869702.03	1756949.631	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/18/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T33-1005	14869562.49	1756789.845	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/18/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T33-1006	14869565.34	1756776.571	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/18/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T33-1011	14869151.4	1756357.39	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	10	Trash Pit. Debris too large to clear.		NA	-	-	0	4/18/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T33-1012	14869008.43	1756164.748	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0.01	NA	-	-	0	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T33-1013	14868967.7	1756175.714	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	0	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T33-1014	14868964.84	1756186.772	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	2	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T33-1015	14868932.26	1756152.406	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0.01	NA	-	-	2	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T33-1016	14868925.7	1756151.887	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	0	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T29-1109	14867742.04	1756307.809	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Beer Can	0.01	NA	-	-	1	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T33-1017	14868891	1756131.613	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	0.1	NA	-	-	4	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T33-1018	14868901.11	1756113.063	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	0.02	NA	-	-	0	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T29-1110	14867603.51	1756203.794	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	2	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T33-1019	14868848.56	1756092.322	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	umbrella		NA	-	-	1	4/18/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T32-1004	14869278.86	1756884.008	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	4	metal hinges	0.5	NA	-	-	1	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T33-1020	14868714.57	1756023.091	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	2	Wire	0.02	NA	-	-	2	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T34-1001	14870501.6	1757354.773	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T30-1024	14868203.85	1756458.052	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	2	Pipe		NA	-	-	0	4/18/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T30-1025	14868211.62	1756483.701	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	1	4/18/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T34-1002	14870797.96	1757707.106	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	3	Wire	0.02	NA	-	-	1	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T30-1026	14868323.72	1756619.88	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	4/18/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T30-1027	14868334.66	1756622.313	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	metal plate	5	NA	-	-	1	4/18/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T30-1028	14868383.65	1756659.916	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	2	Can	0.5	NA	-	-	2	4/18/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T30-1029	14868390.24	1756668.17	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	trash can lid		NA	-	-	0	4/18/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T30-1030	14868397.52	1756667.579	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	10	NA	-	-	2	4/18/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T30-1031	14868414.24	1756658.937	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	0	4/18/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T30-1032	14868420.87	1756675.2	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	10	NA	-	-	0	4/18/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T30-1033	14868485.95	1756727.642	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	0	4/18/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T30-1034	14868500.22	1756740.002	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	4/18/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T30-1035	14868578.36	1756859.492	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.1	NA	-	-	0	4/18/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T30-1036	14868745.16	1757006.448	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	2	Pipe		NA	-	-	0	4/18/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T30-1037	14868726.99	1757016.202	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	hose	1	NA	-	-	0	4/18/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T30-1038	14868781.33	1757031.127	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post	0.01	NA	-	-	1	4/18/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T30-1039	14868824.36	1757041.414	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	permanent steam pipe		NA	-	-	0	4/18/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T30-1040	14868815.38	1757068.251	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	4	Well, pipe, and steel scrap		NA	-	-	0	4/18/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T35-1001	14870835.89	1757342.11	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	2	Barbed wire and reinforced concrete. Debris too large to clear.		NA	-	-	0	4/18/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T30-1041	14868828.48	1757066.806	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable		NA	-	-	0	4/18/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T30-1042	14868906.35	1757050.133	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	3	tire, cans		NA	-	-	0	4/18/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T30-1043	14868933.31	1757052.491	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	2	trash pit		NA	-	-	2	4/18/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T37-1001	14872083.8	1757969.001	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	25	Metal jar lids	2	NA	-	-	4	4/18/2012	Eric Kidder	Transferred to PTA Archaeologist
Former Operational Area	FOA-T37-1002	14872100.56	1757969.748	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.02	NA	-	-	4	4/18/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T05-901	14861451.75	1758482.129	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	2	4/19/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T05-902	14861384.49	1758431.068	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	0.25	NA	-	-	1	4/19/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T05-903	14861377.77	1758398.78	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	22	Blank Ammunition	0.1	NA	-	-	4	4/19/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T05-904	14861281.73	1758346.202	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Can	0.1	NA	-	-	3	4/19/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T05-905	14860283.3	1757343.465	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Army Sign	0.1	NA	-	-	0	4/19/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T05-906	14860046.85	1756951.453	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal scrap. Debris too large to clear.		NA	-	-	0	4/19/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-T08-1001	14862142.32	1758040.323	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	0	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T08-1002	14862149.62	1758042.221	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.01	NA	-	-	4	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T08-1003	14862137.34	1758064.661	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.02	NA	-	-	2	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T08-1004	14862106.19	1758024.752	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T08-1005	14862117.2	1758042.103	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	6	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T08-1006	14862085.84	1757960.76	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	3	7.62mm Blank	0.01	NA	-	-	0	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T08-1007	14862080.89	1757840.61	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T08-1008	14862044.13	1757846.587	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	Shotgun Primer	0.01	NA	-	-	3	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T08-1009	14862021.07	1757821.838	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T08-1010	14862041.05	1757811.519	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	4	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T08-1011	14862017.17	1757769.091	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	7.62mm Blank	0.01	NA	-	-	3	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T08-1012	14861948.71	1757771.081	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post	2	NA	-	-	0	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T08-1013	14861927.26	1757778.368	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	7.62mm Blank	0.01	NA	-	-	3	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T08-1014	14861652.08	1757587.697	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.1	NA	-	-	3	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T06-1101	14861677.46	1758387.648	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	6	4/19/2012	Rick Shellenbarger	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	FOA-T06-1102	14861669	1758369.729	Mag & Dig	Analog	White's XLT	Cultural Debris	Survey Monument	1	Survey Monument	3	NA	-	-	8	4/19/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T06-1103	14861651.47	1758360.148	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	3	4/19/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T06-1104	14861656.61	1758368.96	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Aluminum	0.1	NA	-	-	3	4/19/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T08-1015	14861558.41	1757497.532	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	4	Metal scrap. Debris too large to clear.		NA	-	-	6	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T06-1105	14861651.46	1758358.764	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	2	4/19/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T06-1106	14861627.68	1758336.228	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.1	NA	-	-	4	4/19/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T06-1107	14861601.48	1758342.434	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	6	4/19/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T06-1108	14861556.49	1758301.487	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	3	4/19/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T06-1109	14861540.43	1758294.106	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	2.5	NA	-	-	4	4/19/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T06-1110	14861523.23	1758277.337	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	2	4/19/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T06-1111	14861482.95	1758234.435	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.1	NA	-	-	3	4/19/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T06-1112	14861471.23	1758220.958	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	1	4/19/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T08-1016	14861365.62	1757323.313	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	5	Metal Scrap, 20' Banding, Boards with Nails		NA	-	-	4	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T09-1001	14860911.43	1756562.43	Mag & Dig	Analog	White's XLT	Cultural Debris	Rebar	1	3' Rebar	1.5	NA	-	-	2	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T09-1002	14860971.01	1756606.901	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	3	Hot Rock. Debris too large to clear.	0	NA	-	-	0	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T09-1003	14861063.04	1756658.398	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T09-1004	14861135.92	1756740.932	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Calipers	0.02	NA	-	-	3	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T09-1005	14861291.55	1756841.299	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T06-1113	14861421.53	1758111.244	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	6	Metal Scrap	16	NA	-	-	15	4/19/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1006	14861321.55	1756870.439	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T06-1114	14861410.56	1758101.905	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2.5	NA	-	-	8	4/19/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1007	14861501.78	1757083.957	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/19/2012	Eric Kidder	Left in place
Former Operational Area	WBA-22-13	14863223.96	1756526.96	Channel 2	946.54	White's XLT	Munitions Debris	Tube	3	Flash Tubes	1	0	14863223.96	1756526.96	30	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T06-1115	14860970.04	1757611.722	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	Blank Ammunition	0.01	NA	-	-	4	4/19/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1009	14861800.17	1757406.025	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	3	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T09-1010	14861998.86	1757521.923	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Large Eye Bolt	1	NA	-	-	4	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T09-1011	14862188.63	1757751.13	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	2	Wire	0.1	NA	-	-	3	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T09-1012	14862344.77	1757954.804	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Unknown Metal Trash	2	NA	-	-	1	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T09-1013	14862422.95	1758003.596	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	4	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T09-1014	14862444.79	1758000.453	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	4	Metal scrap. Debris too large to clear.		NA	-	-	3	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T05-907	14861469.27	1758563.541	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	4/19/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T05-908	14861500.82	1758537.417	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	4	4/19/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T05-909	14861506.27	1758534.628	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Scrap Bucket	0.5	NA	-	-	2	4/19/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T05-910	14861576.56	1758607.219	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1.5	NA	-	-	3	4/19/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T05-911	14861598.27	1758653.803	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	0.25	NA	-	-	4	4/19/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T05-912	14861607.19	1758688.845	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	11	Metal Scrap	5	NA	-	-	3	4/19/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T10-1001	14862530.26	1757827.373	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	6	Nails in 20'x20' Area	0.01	NA	-	-	3	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T05-913	14862051.44	1759043.055	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	1	4/19/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T10-1002	14862552.83	1757825.885	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Chicken Wire. Debris too large to clear.		NA	-	-	2	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T10-1003	14862386.41	1757680.828	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T10-1004	14862395.83	1757668.351	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	3	Cable. Debris too large to clear.		NA	-	-	6	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T10-1005	14862374.73	1757600.766	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	6"x12" Wire Mesh	0.5	NA	-	-	3	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T05-914	14862627.84	1759681.969	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	1	NA	-	-	1	4/19/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T10-1006	14861689.62	1756990.5	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T10-1007	14861147.99	1756373.153	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post. Debris too large to clear.		NA	-	-	0	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T09-1015	14862470.66	1758004.195	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	0	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T07-901	14862236.17	1758612.56	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	permanent steel pipe running along ground		NA	-	-	0	4/19/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-T10-1008	14861011.13	1756162.456	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire. Debris too large to clear.		NA	-	-	1	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T07-902	14862217.58	1758610.715	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Corrugated Metal Debris		NA	-	-	6	4/19/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-T07-903	14862107.12	1758439.695	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	4/19/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T09-1016	14860890.29	1756482.967	Mag & Dig	Analog	White's XLT	Cultural Debris	Rebar	1	Rebar 20'. Debris too large to clear.		NA	-	-	0	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T09-1017	14860803.08	1756449.124	Mag & Dig	Analog	White's XLT	Cultural Debris	Rebar	1	Barbed-wire	1	NA	-	-	4	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T09-1018	14860756.55	1756391.329	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2.5	NA	-	-	4	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T08-1017	14860713.79	1756588.798	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire. Debris too large to clear.		NA	-	-	0	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T08-1018	14860844.42	1756713.876	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	3	Three 3' Pieces of Chain Link Fence	0.1	NA	-	-	3	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T06-1116	14861728.09	1758387.677	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	3	3 Bundles of Fencing		NA	-	-	0	4/19/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T06-1117	14861756.65	1758419.582	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	6	55 Gallon Barrel Locks		NA	-	-	0	4/19/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T06-1118	14861756.65	1758419.582	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	11	Fence Posts		NA	-	-	0	4/19/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T06-1119	14861756.65	1758419.582	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Acetylene Tank	16	NA	-	-	0	4/19/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T06-1120	14861756.65	1758419.582	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Metal Chair		NA	-	-	0	4/19/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T06-1121	14861737.55	1758459.458	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	2 Railroad Spikes		NA	-	-	6	4/19/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T06-1122	14861737.55	1758459.458	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Rebar in Concrete		NA	-	-	3	4/19/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T06-1123	14861737.55	1758459.458	Mag & Dig	Analog	White's XLT	Cultural Debris	Vehicle Part	1	Wheel		NA	-	-	0	4/19/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T06-1124	14861764.11	1758454.91	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	4	4/19/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T06-1125	14861766.67	1758457.934	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Aluminum Tape	0.02	NA	-	-	6	4/19/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T06-1126	14861887.94	1758602.937	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	4	4/19/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T06-1127	14861887.94	1758602.937	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	12	4/19/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T06-1128	14861906.13	1758600.361	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	4	4/19/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T06-1129	14862007.72	1758668.102	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	2	4/19/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T06-1130	14862148	1758829.029	Mag & Dig	Analog	White's XLT	Cultural Debris	Vehicle Part	2	Wheels		NA	-	-	0	4/19/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T06-1131	14862144.79	1758845.065	Mag & Dig	Analog	White's XLT	Cultural Debris	Vehicle Part	3	Wheels		NA	-	-	0	4/19/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T08-1019	14862125.53	1758108.089	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	7.62mm Blank	0.01	NA	-	-	2	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T08-1020	14862198.37	1758181.773	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	3	Wire. Debris too large to clear.		NA	-	-	4	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T08-1021	14862262.7	1758229.808	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	2	Wire. Debris too large to clear.		NA	-	-	2	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T08-1022	14862273.19	1758287.772	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	3	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T08-1023	14862303.17	1758311.934	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	2	Blank Ammunition	0.01	NA	-	-	3	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T08-1024	14862336.47	1758345.199	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	NA	-	-	4	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T08-1025	14862407.19	1758357.285	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	6	Blank Ammunition. Debris too large to clear.		NA	-	-	4	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T08-1026	14862436.48	1758464.886	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	0	4/19/2012	Eric Kidder	Left in place

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	FOA-T08-1027	14862815.77	1758716.081	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T09-1019	14862961.64	1758607.075	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	2	Barbed-wire	0.1	NA	-	-	2	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T09-1020	14862905.05	1758504.585	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	0	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T09-1021	14862903.6	1758505.421	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T09-1022	14862735.52	1758394.082	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	10' Cable. Debris too large to clear.		NA	-	-	0	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T09-1023	14862637.45	1758299.531	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	0	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T09-1024	14862637.02	1758285.165	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	5	Metal scrap. Debris too large to clear.		NA	-	-	3	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T09-1025	14862589.19	1758261.917	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.02	NA	-	-	3	4/19/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T09-1026	14862542.89	1758252.75	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	4	50'x50' Trash Area. Debris too large to clear.		NA	-	-	0	4/19/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T05-915	14862670.46	1759756.901	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	0.1	NA	-	-	4	4/20/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T18-1119	14864069.03	1756393.39	Mag & Dig	Analog	White's XLT	UXO	Mortar	2	Fuzed M43 81mm mortar, Practice	3.5	NA	-	-	15	4/29/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T10-1009	14862830.51	1758157.147	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock	0.1	NA	-	-	4	4/20/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T10-1010	14862953.83	1758350.476	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris		NA	-	-	0	4/20/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-T10-1011	14863301.03	1758669.508	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	5	NA	-	-	1	4/20/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T10-1012	14863367.49	1758705.924	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	2	NA	-	-	2	4/20/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T10-1013	14863375.21	1758721.632	Mag & Dig	Analog	White's XLT	Cultural Debris	Other Archaeological Item	1	Toy wheels	0.5	NA	-	-	3	4/20/2012	Jason Leseiko	Transferred to PTA Archaeologist
Former Operational Area	FOA-T11-1005	14863625.41	1758569.024	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post	0.5	NA	-	-	6	4/20/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T11-1006	14863678.71	1758595.004	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	10	NA	-	-	1	4/20/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T11-1007	14863680.31	1758622.897	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	2	4/20/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T11-1008	14863686.78	1758606.57	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	4/20/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T11-1009	14863669.7	1758613.004	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	0.01	NA	-	-	2	4/20/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T11-1010	14863687.25	1758627.562	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	4/20/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T11-1011	14863702.59	1758637.708	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	2	4/20/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T11-1012	14863750.44	1758666.756	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire		NA	-	-	2	4/20/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-T11-1013	14863824.85	1758761.693	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail Pit		NA	-	-	1	4/20/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-T18-1120	14864072.69	1756396.135	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Fuzed M43 81mm mortar, Practice	3.5	NA	-	-	8	4/29/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T11-1015	14863824.85	1758761.693	Mag & Dig	Analog	White's XLT	Cultural Debris	Concrete	1	Concrete		NA	-	-	1	4/20/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-T11-1016	14863819.87	1758787.963	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	1	4/20/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T11-1017	14863934.58	1758931.6	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	1	NA	-	-	2	4/20/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T09-1027	14863733.35	1759413.53	Mag & Dig	Analog	White's XLT	Cultural Debris	Horseshoe	1	Horsesheoe	2	NA	-	-	3	4/20/2012	Rick Shellenbarger	Transferred to PTA Archaeologist
Former Operational Area	FOA-T11-1018	14864323.36	1759263.941	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	4	Metal scrap. Debris too large to clear.		NA	-	-	0	4/20/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-T09-1028	14864195.05	1759978.1	Mag & Dig	Analog	White's XLT	Cultural Debris	Horseshoe	1	Horsesheoe	2	NA	-	-	8	4/20/2012	Rick Shellenbarger	Transferred to PTA Archaeologist
Former Operational Area	FOA-T12-1003	14864349.1	1758942.55	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap. Debris too large to clear.		NA	-	-	4	4/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T12-1004	14864363.77	1758963.193	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0.01	NA	-	-	1	4/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T12-1005	14864354.23	1758948.049	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	4	Metal scrap. Debris too large to clear.		NA	-	-	0	4/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T12-1006	14864250.07	1758799.944	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	2	Nail	0.01	NA	-	-	2	4/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T12-1007	14864259.97	1758814.812	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post. Debris too large to clear.		NA	-	-	0	4/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T12-1008	14864344.13	1758968.264	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0.01	NA	-	-	2	4/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T12-1009	14864348.91	1758977.357	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.02	NA	-	-	3	4/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T12-1010	14864391.74	1759022.173	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other. Debris too large to clear.		NA	-	-	0	4/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T12-1011	14864394.67	1759024.093	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	6	4/20/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T18-1121	14864069.08	1756401.677	Mag & Dig	Analog	White's XLT	UXO	Mortar	2	Fuzed M43 81mm mortar, Practice	3.5	NA	-	-	9	4/29/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T12-1013	14864509.26	1759145.9	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	0	4/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T12-1014	14864711.48	1759236.619	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal scrap. Debris too large to clear.	0.02	NA	-	-	1	4/20/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T10-1019	14862561.7	1758000.158	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	6	4/25/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T10-1020	14862565.26	1757983.568	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	4/25/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T10-1021	14862579.95	1758008.357	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	nail pit	0.02	NA	-	-	6	4/25/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T10-1014	14862550.34	1757911.81	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	4/25/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T10-1015	14862532.24	1757934.002	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	0.1	NA	-	-	6	4/25/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T10-1016	14862532.24	1757934.002	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	4	4/25/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T10-1017	14862568.8	1757964.213	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	4	4/25/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T10-1018	14862579.79	1757977.972	Mag & Dig	Analog	White's XLT	Cultural Debris	Spoon	1	Old Spoon	0.01	NA	-	-	3	4/25/2012	Rick Shellenbarger	Transferred to PTA Archaeologist
Former Operational Area	FOA-T10-1022	14862594.6	1758027.624	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire. Debris too large to clear.		NA	-	-	0	4/25/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T10-1024	14862620.16	1758038.552	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	3	Nail Pit. Debris too large to clear.		NA	-	-	6	4/25/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T10-1023	14862620.16	1758038.552	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	chain	0.5	NA	-	-	6	4/25/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T10-1025	14862612.91	1758046.873	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	3	Nail Pit. Debris too large to clear.		NA	-	-	6	4/25/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T10-1026	14862788.13	1758128.896	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	0	4/25/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T04-1001	14864467.54	1761888.589	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	7.62mm link	0.01	NA	-	-	6	4/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T04-1002	14864445.92	1761935.658	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	2	Blank Ammunition	0.01	NA	-	-	3	4/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T04-1003	14864456.9	1761946.649	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	6	Blank Ammunition. Debris too large to clear.	0.02	NA	-	-	2	4/25/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T04-1004	14864233.39	1761679.824	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	4	4/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T04-1005	14864123.54	1761561.591	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	2	7.62mm blank	0.02	NA	-	-	3	4/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T04-1006	14864087.23	1761583.873	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	6	Blank Ammunition. Debris too large to clear.	0.1	NA	-	-	4	4/25/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T04-1007	14863812.5	1761270.331	Mag & Dig	Analog	White's XLT	Small Arms	Shotgun Primer	1	shotgun primer	0.01	NA	-	-	1	4/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T04-1008	14863761.43	1761254.009	Mag & Dig	Analog	White's XLT	Small Arms	Shotgun Primer	1	shotgun primer 12 gauge	0.01	NA	-	-	3	4/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T04-1009	14863633.27	1761116.527	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	arrow	0.1	NA	-	-	2	4/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T04-1010	14863603.98	1761086.289	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Scrap Wire. Debris too large to clear.		NA	-	-	2	4/25/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T03-1001	14863920.43	1761731.115	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/25/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T09-1029	14865183.4	1760835.316	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	slag		NA	-	-	1	4/25/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T03-1002	14864253.95	1762146.565	Mag & Dig	Analog	White's XLT	Cultural Debris	Vehicle Part	1	Car Hood. Debris too large to clear.		NA	-	-	0	4/25/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T18-1122	14864094.64	1756415.367	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Fuzed M43 81mm mortar, Practice	3.5	NA	-	-	6	4/29/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T09-1031	14865039.25	1761142.651	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	slag		NA	-	-	1	4/25/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T03-1003	14864261.25	1762149.291	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	3	4/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T09-1032	14865020.99	1761134.458	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	slag		NA	-	-	1	4/25/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T09-1033	14864995.51	1761137.345	Mag & Dig	Analog	White's XLT	Cultural Debris	Cultural Feature	1	covert		NA	-	-	0	4/25/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T03-1004	14865248.86	1762989.571	Mag & Dig	Analog	White's XLT	Small Arms	Shotgun Primer	1	shotgun primer 12 gauge	0.01	NA	-	-	3	4/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T04-1011	14865313.93	1762892.564	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock	0.1	NA	-	-	0	4/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T04-1012	14865277.41	1762873.413	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	3	Hot Rock. Debris too large to clear.		NA	-	-	0	4/25/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T04-1013	14865024.88	1762631.607	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	3	4/25/2012	Eric Kidder	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	FOA-T07-904	14864144.4	1760636.08	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire		NA	-	-	0	4/25/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T04-1014	14865039.32	1762606.676	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	2	Barbed-Wire	0.5	NA	-	-	3	4/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T04-1015	14865010.02	1762573.676	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other. Debris too large to clear.		NA	-	-	0	4/25/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T04-1016	14864955.24	1762543.565	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	2	4/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	WBA-22-14	14863223.96	1756526.96	Channel 2	946.54	White's XLT	Munitions Debris	Other MD	1	Unknown Initiator, expended	0.1	0	14863223.96	1756526.96	30	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T04-1017	14864812.23	1762353.687	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	2	Scrap Metal. Debris too large to clear.		NA	-	-	1	4/25/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T06-1132	14864643.47	1761384.956	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	2	slag	0.1	NA	-	-	1	4/25/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T06-1133	14864632.62	1761401.582	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	slag		NA	-	-	0	4/25/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T06-1134	14864603.19	1761340.957	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	0	4/25/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T05-917	14863862.27	1761026.985	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	Blank Ammunition	0.01	NA	-	-	1	4/25/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T02-1001	14863794.68	1762074.291	Mag & Dig	Analog	White's XLT	Small Arms	Shotgun Primer	1	shotgun primer 12 gauge	0.01	NA	-	-	2	4/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T10-1027	14865240.39	1760578.14	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	slag		NA	-	-	0	4/25/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T10-1028	14865152.8	1760542.669	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	Small Arms Pit		NA	-	-	1	4/25/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T01-1001	14863407.47	1761846.956	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/25/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T01-1002	14863839.98	1762391.746	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/25/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T01-1003	14863905.41	1762366.554	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	15	NA	-	-	2	4/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T11-1019	14865362.79	1760290.258	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	2	slag	0.5	NA	-	-	0	4/25/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T11-1020	14865381.14	1760317.787	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	slag	0.5	NA	-	-	0	4/25/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T01-1004	14864553.76	1763095.305	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T02-1002	14865130.47	1763343.749	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T02-1003	14864786.51	1763027.83	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	2	4/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T12-1015	14864922.01	1759535.571	Mag & Dig	Analog	White's XLT	Cultural Debris	55 Gallon Drum	1	55 Gallon Drum		NA	-	-	0	4/25/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T02-1004	14864419.92	1762557.321	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	1	4/25/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T02-1005	14864219.12	1762461.652	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	3	4/25/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T13-1010	14865026.58	1759322.355	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	0	4/25/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T13-1011	14865099.62	1759363.432	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		NA	-	-	0	4/25/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T13-1012	14865136.23	1759401.924	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	0	4/25/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T13-1013	14865538.77	1759789.418	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	2	Other	1	NA	-	-	1	4/25/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T01-1005	14864835.75	1763400.492	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/25/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T05-918	14864341.47	1761444.478	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	Blank Ammunition	0.01	NA	-	-	1	4/26/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T05-919	14864356.1	1761455.452	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	4	4/26/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T05-920	14864388.96	1761471.861	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0.01	NA	-	-	4	4/26/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T05-921	14864370.72	1761466.428	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0.01	NA	-	-	2	4/26/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T05-922	14864472.91	1761507.354	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T05-923	14864542.17	1761520.819	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	0	4/26/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T05-924	14864578.7	1761542.732	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	2	Hot Rock. Debris too large to clear.		NA	-	-	3	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T05-925	14864586.08	1761562.031	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	2	4/26/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T05-926	14864615.41	1761600.557	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock	2	NA	-	-	3	4/26/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T05-927	14864622.82	1761625.381	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	3	Hot Rock. Debris too large to clear.		NA	-	-	0	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T05-928	14864638.07	1761760.663	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	2	4/26/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T10-1029	14866005.54	1761369.846	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable		NA	-	-	0	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T10-1030	14866020.03	1761353.2	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	0	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T10-1031	14866016.32	1761342.173	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	2	metal scrap and pipe	1	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T05-929	14864766.14	1761878.8	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed Wire. Debris too large to clear.		NA	-	-	0	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T10-1032	14865950.17	1761223.727	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.5	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T10-1033	14865950.23	1761234.775	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal scrap. Debris too large to clear.		NA	-	-	0	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T10-1034	14865899.19	1761223.982	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	2	Nail	0.01	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T10-1035	14865884.58	1761215.768	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	3	Nail	0.01	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T10-1036	14865891.77	1761196.397	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	2	Nail	0.01	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T10-1037	14865877.17	1761190.945	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T10-1038	14865869.79	1761171.647	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	1	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T10-1039	14865844.28	1761169.012	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	3	Nail		NA	-	-	1	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T10-1040	14865847.81	1761146.899	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.1	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T10-1041	14865822.31	1761144.262	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	metal beam		NA	-	-	0	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T10-1042	14865807.76	1761149.859	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T10-1043	14865796.8	1761141.627	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	0	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T10-1044	14865796.75	1761133.341	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	0	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T10-1045	14865804.07	1761138.829	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	2	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T10-1046	14865796.87	1761155.441	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		NA	-	-	1	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T10-1047	14865782.18	1761130.651	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		NA	-	-	0	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T10-1048	14865753.04	1761130.8	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	2	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T10-1049	14865698.23	1761095.165	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	2	banding and scrap	0.5	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T10-1050	14865694.57	1761092.418	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	banding	0.02	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T10-1051	14865507.99	1760924.853	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	2	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T10-1052	14865412.25	1760715.398	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	0	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1034	14865191.45	1760989.964	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock		NA	-	-	2	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T09-1035	14865362.89	1761041.595	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	2	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T06-1135	14864915.04	1761795.182	Mag & Dig	Analog	White's XLT	Small Arms	Shotgun Primer	1	Shotgun Primer	0.01	NA	-	-	2	4/26/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T09-1036	14865432.3	1761085.441	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.01	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1037	14865414.15	1761096.581	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1038	14865443.3	1761099.2	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1039	14865472.55	1761121.152	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T06-1136	14864720.42	1761478.49	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris	1	NA	-	-	3	4/26/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T09-1040	14865465.36	1761140.524	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1041	14865465.39	1761146.046	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1042	14865472.68	1761148.771	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	0	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1043	14865480.19	1761192.933	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		NA	-	-	1	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T09-1044	14865494.81	1761203.906	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag	0.1	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1045	14865491.14	1761198.403	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	FOA-T09-1046	14865516.69	1761209.324	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag		NA	-	-	1	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T09-1047	14865523.96	1761206.525	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	0	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T09-1048	14865542.19	1761209.194	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag	0.5	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1049	14865560.65	1761258.822	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1050	14865549.73	1761261.641	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1051	14865579.01	1761289.117	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	big red metal thing		NA	-	-	0	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T09-1052	14865578.97	1761280.828	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	wire flag	0.01	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1053	14865575.38	1761291.895	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1054	14865579.05	1761297.401	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T07-906	14864989.29	1761350.077	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	15	Multiple bandings. Debris too large to clear.		NA	-	-	0	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T09-1055	14865593.77	1761327.712	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable	0.5	NA	-	-	0	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1056	14865601.08	1761333.2	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable		NA	-	-	0	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T09-1057	14865601.1	1761335.965	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	Blank Ammunition	0.01	NA	-	-	0	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1058	14865590.2	1761341.541	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	0	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1059	14865597.55	1761355.318	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	2	Blank Ammunition	0.01	NA	-	-	0	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T07-907	14864978.44	1761363.94	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	5	Hot Rock. Debris too large to clear.		NA	-	-	0	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T09-1060	14865710.7	1761404.472	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap and Pliers	1	NA	-	-	0	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1061	14865699.87	1761423.862	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	0	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1062	14865707.18	1761429.35	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1063	14865743.59	1761426.405	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	0	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1064	14865791.17	1761473.124	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire		NA	-	-	1	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T09-1065	14865842.39	1761519.823	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T07-908	14865058.81	1761413.259	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	5	Hot Rock. Debris too large to clear.		NA	-	-	0	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T09-1066	14865908.33	1761594.072	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	1	NA	-	-	0	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T07-909	14865263.84	1761627.69	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	3	4/26/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T09-1067	14865904.71	1761599.617	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	0	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T09-1068	14865904.7	1761596.855	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	0	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T07-910	14865136.51	1761655.952	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T08-1028	14865624.64	1761672.84	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	0	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T08-1029	14865210.92	1761241.235	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag	0.1	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T08-1030	14865207.23	1761232.97	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	2	Slag	0.1	NA	-	-	0	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T08-1031	14865221.68	1761208.037	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag	0.5	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T08-1032	14865181.65	1761213.761	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag	12.5	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T08-1033	14865174.32	1761205.511	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	2	slag, scrap metal	0.5	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T08-1034	14865137.92	1761211.218	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag	0.1	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T08-1035	14865119.66	1761200.26	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	2	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T08-1036	14865115.95	1761186.467	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	2	Hot Rock	0.02	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T08-1037	14865123.31	1761203.004	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag		NA	-	-	1	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T08-1038	14865112.25	1761175.434	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag		NA	-	-	1	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T08-1039	14865112.25	1761175.434	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T07-911	14865216.71	1761669.361	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	5	Nail Pit. Debris too large to clear.	0.1	NA	-	-	4	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T05-930	14865004.23	1762148.307	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock		NA	-	-	0	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T06-1137	14864676.61	1761456.611	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	4	Nail Pit		NA	-	-	4	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T11-1021	14865838.77	1760793.378	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire		NA	-	-	2	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T11-1022	14865853.58	1760843.024	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	2	4/26/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T11-1023	14865864.48	1760837.446	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	12	Barbed-wire. Debris too large to clear.	0.1	NA	-	-	2	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T11-1024	14865853.8	1760887.221	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	2	Barbed-wire. Debris too large to clear.	0.01	NA	-	-	2	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T14-1110	14865877.49	1759790.504	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire		NA	-	-	0	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T14-1111	14865852.13	1759818.254	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire		NA	-	-	0	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T11-1025	14865828.01	1760826.581	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	4	4/26/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T14-1112	14865848.56	1759832.083	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire		NA	-	-	0	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T14-1113	14865918.5	1759980.893	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	0	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T11-1026	14865857.69	1760936.919	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	0	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T14-1114	14865980.44	1759986.111	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail in wood		NA	-	-	0	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T11-1027	14865876.04	1760964.45	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	0	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T11-1028	14865879.81	1760989.291	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	0	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T11-1029	14866025.9	1761071.43	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire. Debris too large to clear.	0.1	NA	-	-	1	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T11-1030	14866055.23	1761109.954	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	10	NA	-	-	4	4/26/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T11-1031	14866095.47	1761145.662	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post	2	NA	-	-	3	4/26/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T11-1032	14866080.89	1761142.972	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	0.1	NA	-	-	2	4/26/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T15-1019	14866340.65	1759915.277	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	1	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T11-1033	14866106.52	1761170.466	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal scrap. Debris too large to clear.	0.1	NA	-	-	2	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T15-1020	14866011.24	1759585.441	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T15-1021	14866007.57	1759579.934	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire		NA	-	-	1	4/26/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T16-1113	14866287.57	1759490.167	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	1	4/26/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T12-1016	14866287.56	1760956.874	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T11-1034	14866117.49	1761178.695	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	7	Scrap yard. Debris too large to clear.		NA	-	-	0	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T12-1017	14866067.79	1760706.609	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire. Debris too large to clear.		NA	-	-	0	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T12-1018	14866038.57	1760690.184	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock		NA	-	-	2	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T12-1019	14865995.07	1760731.834	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	2	4/26/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T12-1020	14866024.13	1760717.878	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post. Debris too large to clear.		NA	-	-	0	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T13-1014	14865970.79	1760243.046	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	4/26/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T13-1015	14865978.06	1760240.248	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post	0.1	NA	-	-	3	4/26/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T13-1016	14866003.61	1760251.167	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire. Debris too large to clear.		NA	-	-	4	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T13-1017	14865879.66	1760226.922	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	6	Barbed-wire. Debris too large to clear.	0.5	NA	-	-	2	4/26/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T13-1018	14866003.66	1760262.218	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	4/26/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T13-1019	14866062.26	1760328.22	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	0.5	NA	-	-	3	4/26/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T13-1020	14866142.51	1760352.681	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post	1	NA	-	-	3	4/26/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T14-1115	14865661.52	1759570.593	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag	0.5	NA	-	-	1	4/27/2012	Rick Shellenbarger	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	FOA-T14-1116	14865632.23	1759537.59	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag	4	NA	-	-	0	4/27/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T18-1123	14864061.71	1756385.136	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Fuzed M50 60mm mortar, Practice	2	NA	-	-	8	4/29/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T14-1118	14865610.17	1759496.268	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	0	4/27/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T14-1119	14865577.3	1759477.095	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	1	4/27/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T14-1120	14865555.33	1759455.105	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	3	NA	-	-	1	4/27/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T14-1121	14865500.45	1759402.89	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	0	4/27/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T14-1122	14865441.87	1759342.411	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	0	4/27/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T14-1123	14865427.22	1759325.907	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	1	4/27/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T14-1124	14865412.64	1759323.217	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag		NA	-	-	1	4/27/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T14-1125	14865419.91	1759320.419	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag		NA	-	-	1	4/27/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T14-1126	14865419.82	1759301.086	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other		NA	-	-	0	4/27/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T14-1127	14865412.44	1759281.787	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	3	Slag		NA	-	-	1	4/27/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T14-1128	14865310.03	1759193.895	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	2	Can	0.02	NA	-	-	0	4/27/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T14-1129	14865174.5	1759037.114	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	1	4/27/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T15-1022	14865645.5	1759275.115	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	0	4/27/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T15-1023	14865754.99	1759321.532	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other		NA	-	-	0	4/27/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T15-1024	14865758.74	1759343.614	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other		NA	-	-	0	4/27/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T15-1025	14865766.08	1759354.626	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other		NA	-	-	1	4/27/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T15-1026	14865802.6	1759373.782	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	0	4/27/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T16-1114	14866024.51	1759322.97	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other		NA	-	-	0	4/27/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T16-1115	14866119.38	1759358.411	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	NA	-	-	1	4/27/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T16-1116	14866119.38	1759358.411	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag		NA	-	-	0	4/27/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T16-1117	14866123.13	1759380.49	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag		NA	-	-	1	4/27/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T16-1118	14866159.72	1759413.453	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	2	Can	0.1	NA	-	-	1	4/27/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T17-1005	14866520.01	1759359.201	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other		NA	-	-	0	4/27/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T18-1113	14866873.55	1759409.937	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		NA	-	-	0	4/27/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T18-1114	14866880.85	1759412.666	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	2	4/27/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T38-1101	14872921.79	1758405.361	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		NA	-	-	0	4/27/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T39-1101	14874369.69	1759549.718	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	3	Can	0.1	NA	-	-	0	4/27/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T39-1102	14874914.81	1760044.039	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	0	4/27/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T40-1101	14875765.82	1760528.531	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	2.5	NA	-	-	8	4/27/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T18-1124	14864109.23	1756420.822	Mag & Dig	Analog	White's XLT	UXO	Fuze	1	Heat, Grenade Rifle, Fuze	1	NA	-	-	6	4/29/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T35-1002	14872180.55	1758762.456	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	3	NA	-	-	9	4/27/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T65-1001	14875761.36	1767478.207	Mag & Dig	Analog	White's XLT	Cultural Debris	Concrete	1	I Beam in Concrete. Debris too large to clear.		NA	-	-	0	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T65-1002	14875768.65	1767480.93	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil. Debris too large to clear.		NA	-	-	0	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T65-1003	14876087.52	1767860.277	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	NA	-	-	3	4/28/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T65-1004	14876109.56	1767896.051	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	nut to a large bolt	0.1	NA	-	-	3	4/28/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T65-1005	14876076.78	1767896.227	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	0.1	NA	-	-	4	4/28/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T65-1006	14876091.35	1767896.147	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire		NA	-	-	3	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T65-1007	14876113.4	1767934.688	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	3	large spike nails	0.5	NA	-	-	3	4/28/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T65-1008	14876190.15	1767983.979	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	3	Hot Rock. Debris too large to clear.		NA	-	-	0	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T65-1009	14876435.8	1768291.914	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	5	Slag. Debris too large to clear.	30	NA	-	-	6	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T64-1001	14876667.98	1768804.228	Mag & Dig	Analog	White's XLT	Cultural Debris	Concrete	1	Concrete. Debris too large to clear.		NA	-	-	0	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T64-1002	14876638.74	1768785.059	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	0.1	NA	-	-	3	4/28/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T64-1003	14876635.01	1768768.51	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	2	Barbed-wire		NA	-	-	2	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T64-1005	14876605.9	1768774.187	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	2	Hot Rock. Debris too large to clear.		NA	-	-	1	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T64-1004	14876642.26	1768762.95	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	7	large spike nails 10' x 10' area	2	NA	-	-	4	4/28/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T64-1006	14876620.27	1768735.46	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other. Debris too large to clear.		NA	-	-	0	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T41-1101	14876829.96	1761384.653	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	sign		NA	-	-	0	4/28/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T64-1007	14876946.79	1769180.999	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Scrap Metal. Debris too large to clear.		NA	-	-	0	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T64-1009	14877316.33	1769496.532	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag	0.1	NA	-	-	3	4/28/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T64-1008	14877063.98	1769301.852	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Railroad Tie Pile. Debris too large to clear.		NA	-	-	0	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T64-1010	14877385.57	1769504.442	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T64-1011	14877389.46	1769551.359	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	4/28/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T64-1012	14877587.54	1769812.583	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire		NA	-	-	3	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T64-1013	14877700.69	1769858.912	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	6	Metal scrap. Debris too large to clear.	0.5	NA	-	-	4	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T64-1014	14878077.93	1770248.923	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag		NA	-	-	4	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T65-1010	14876827.45	1768657.051	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	4/28/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T65-1011	14876853.3	1768723.177	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T65-1012	14877029.09	1768907.225	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	4	4/28/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T65-1013	14877292.78	1769179.152	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	6	4/28/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T65-1014	14877336.63	1769206.528	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	12' wire		NA	-	-	0	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T65-1015	14877468.17	1769285.889	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.1	NA	-	-	2	4/28/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T65-1016	14877614.24	1769356.894	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	0	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T65-1017	14877823.22	1769615.298	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	4	Metal Scrap	0.02	NA	-	-	3	4/28/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T65-1018	14877867.17	1769661.995	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	0.5	NA	-	-	3	4/28/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T63-1001	14877545.63	1770146.874	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag	30	NA	-	-	4	4/28/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T63-1002	14877560.08	1770124.711	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock		NA	-	-	2	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T63-1003	14877530.9	1770116.583	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire. Debris too large to clear.		NA	-	-	0	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T63-1004	14877545.15	1770058.53	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	4	4/28/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T63-1005	14877504.57	1769962.114	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post. Debris too large to clear.		NA	-	-	0	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T63-1006	14877486.52	1769992.581	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post	0.1	NA	-	-	0	4/28/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T63-1007	14877479.04	1769953.971	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other. Debris too large to clear.		NA	-	-	0	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T63-1008	14877482.48	1769918.061	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock		NA	-	-	0	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T63-1009	14877427.7	1769890.746	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	8	Trash Pit. Debris too large to clear.		NA	-	-	0	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T63-1010	14876845.98	1769399.651	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other. Debris too large to clear.		NA	-	-	0	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T63-1011	14876838.72	1769405.211	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag		NA	-	-	3	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T63-1012	14876706.77	1769248.543	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other. Debris too large to clear.		NA	-	-	0	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T63-1013	14876666.6	1769229.431	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	3	4/28/2012	Eric Kidder	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	FOA-T64-1015	14878169.13	1770276.041	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	3	Slag. Debris too large to clear.		NA	-	-	0	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T65-1019	14877863.71	1769695.146	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal scrap. Debris too large to clear.	0.1	NA	-	-	3	4/28/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T18-1125	14864123.86	1756434.563	Mag & Dig	Analog	White's XLT	UXO	Grenade	1	Heat, Grenade Rifle, Fuzed	1.5	NA	-	-	8	4/29/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T18-1126	14864076.37	1756404.405	Mag & Dig	Analog	White's XLT	UXO	Mortar	5	Fuzed M43 81mm mortar, Practice	3.5	NA	-	-	8	4/29/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T18-1130	14864025.64	1756457.132	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Fuzed M50 60mm mortar, Practice	1.5	NA	-	-	8	5/17/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T18-1131	14864025.64	1756457.132	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Fuzed M43 81mm mortar, Practice	4	NA	-	-	6	5/17/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-22-15	14863223.96	1756526.96	Channel 2	946.54	White's XLT	Munitions Debris	Other MD	1	Unknown Initiator, expended	0.1	0	14863223.96	1756526.96	30	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T18-1132	14863992.83	1756451.767	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Fuzed M43 81mm mortar, Practice	4	NA	-	-	6	5/17/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T18-1133	14863996.58	1756473.848	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Fuzed M43 81mm mortar, Practice	4	NA	-	-	6	5/17/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T18-1134	14864007.95	1756564.953	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Fuzed M43 81mm mortar, Practice	4	NA	-	-	4	5/17/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T18-1135	14864087.7	1756487.223	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Fuzed M43 81mm mortar, Practice	4	NA	-	-	6	5/17/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T18-1136	14864080.06	1756412.672	Mag & Dig	Analog	White's XLT	UXO	Mortar	2	Fuzed M43 81mm mortar, Practice	4	NA	-	-	6	5/17/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T18-1137	14864072.72	1756401.657	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Fuzed M43 81mm mortar, Practice	4	NA	-	-	6	5/17/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T18-1138	14864039.86	1756385.243	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Fuzed M43 81mm mortar, Practice	4	NA	-	-	6	5/17/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T64-1016	14878169.13	1770276.041	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T64-1017	14875928.47	1768087.525	Mag & Dig	Analog	White's XLT	Small Arms	7.62mm	15	7.62mm. Debris too large to clear.	0.1	NA	-	-	3	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T64-1018	14876374.84	1768471.704	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	3	Barbed-wire. Debris too large to clear.	0.1	NA	-	-	2	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T64-1019	14876345.84	1768496.707	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T64-1020	14876320.46	1768518.933	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	3	Barbed-wire. Debris too large to clear.	0.1	NA	-	-	2	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T63-1015	14876487.3	1769073.01	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	7.62mm blank	0.01	NA	-	-	1	5/2/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T63-1016	14876084.17	1768603.016	Mag & Dig	Analog	White's XLT	Small Arms	Shotgun Primer	1	Shotgun Primer	0.01	NA	-	-	3	5/2/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T63-1017	14876069	1768489.893	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	2	Barbed-wire. Debris too large to clear.	0.01	NA	-	-	0	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T63-1018	14875992.3	1768448.887	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	0	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T63-1019	14875656.19	1768254.629	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	0	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T44-1101	14874084.88	1773360.297	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	5/2/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T44-1102	14874055.74	1773360.457	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	0	5/2/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T63-1020	14875601.31	1768207.981	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	2	Cable. Debris too large to clear.		NA	-	-	0	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T62-1001	14875551.13	1768360.108	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1.5	NA	-	-	2	5/2/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T45-1101	14874525.91	1773421.374	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	1	5/2/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T62-1002	14875686.32	1768442.224	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	Blank Ammunition	0.01	NA	-	-	2	5/2/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T62-1004	14875851.4	1768664.999	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	7.62mm blank	0.01	NA	-	-	3	5/2/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T62-1005	14875851.43	1768670.521	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T19-1010	14864790.33	1756880.514	Mag & Dig	Analog	White's XLT	Munitions Debris	Canister	1	Incendiary, Body	0.02	NA	-	-	8	4/5/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T46-1101	14874864.68	1773430.554	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	0	5/2/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T62-1006	14875865.84	1768640.072	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	Blank Ammunition	0.01	NA	-	-	2	5/2/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T46-1102	14874802.31	1773348.062	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	0	5/2/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T46-1103	14874714.72	1773315.407	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	0	5/2/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T46-1104	14874725.67	1773320.872	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	5/2/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T62-1007	14875880.54	1768664.844	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	7.62mm blank	0.01	NA	-	-	3	5/2/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T46-1105	14874689.39	1773345.92	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	0	5/2/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T62-1008	14875873.5	1768711.817	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	2	7.62mm blank	0.02	NA	-	-	2	5/2/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T62-1009	14875891.73	1768714.484	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	5	primers not impinged	0.1	NA	-	-	3	5/2/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T62-1010	14875957.68	1768788.682	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T62-1011	14876071.54	1768967.545	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	1	7.62mm blank	0.01	NA	-	-	1	5/2/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T62-1012	14876071.61	1768981.348	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	2	7.62mm blanks	0.1	NA	-	-	3	5/2/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T62-1013	14876360.58	1769214.498	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	0	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T62-1014	14876470.7	1769374.049	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	4	5/2/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T62-1015	14876822.16	1769714.532	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	0	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T62-1016	14876851.63	1769775.115	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	4	5/2/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T62-1017	14877056.48	1769942.435	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post. Debris too large to clear.		NA	-	-	0	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T62-1018	14877331.45	1770277.791	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock		NA	-	-	0	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T61-1001	14877542.11	1770845.399	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	6	5/2/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T61-1002	14877388.12	1770655.728	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable. Debris too large to clear.		NA	-	-	0	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T61-1003	14877286.04	1770636.953	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	2	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T61-1004	14876879.26	1770172.544	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	3	Nail		NA	-	-	0	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T61-1005	14876663.43	1769997.004	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	0	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T61-1006	14876641.25	1769936.378	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	0	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T46-1106	14874579.87	1773299.584	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	0	5/2/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T46-1107	14873934.66	1772535.489	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	1	5/2/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T46-1108	14873905.16	1772469.379	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		NA	-	-	0	5/2/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T47-1101	14874313.33	1772514.088	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		NA	-	-	0	5/2/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T61-1007	14875916.11	1769189.26	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	0	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T47-1102	14874474.35	1772654.033	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	1	5/2/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T62-1019	14877514.06	1770370.676	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	0	5/2/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T63-1014	14876560.37	1769114.036	Mag & Dig	Analog	White's XLT	Small Arms	7.62mm	12	7.62mm. Debris too large to clear.	0.1	NA	-	-	0	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T47-1103	14874852.42	1773187.633	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	0	5/2/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T47-1104	14874932.65	1773206.523	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can		NA	-	-	1	5/2/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T47-1105	14875031.21	1773247.398	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	0	5/2/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T47-1106	14875097.09	1773305.02	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap		NA	-	-	0	5/2/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T48-1101	14875205.48	1773147.034	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	1	5/2/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T48-1102	14875179.89	1773130.611	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag		NA	-	-	0	5/2/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T48-1103	14875165.25	1773116.885	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable		NA	-	-	0	5/2/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T48-1104	14875132.4	1773103.257	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	1	5/2/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T48-1105	14874714.13	1772545.031	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire		NA	-	-	0	5/2/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T49-1101	14875023.37	1772482.59	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	computer monitor		NA	-	-	0	5/2/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T53-1101	14874953.22	1770969.84	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire		NA	-	-	1	5/2/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T53-1102	14874693.88	1770830.423	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	50x50ft trash area		NA	-	-	0	5/2/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T19-1013	14865036.82	1757167.434	Mag & Dig	Analog	White's XLT	Munitions Debris	Canister	1	Base	0.01	NA	-	-	8	4/5/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T19-1014	14865074.98	1757226.086	Mag & Dig	Analog	White's XLT	Munitions Debris	Spacer	1	Illumination, Spacer	0.01	NA	-	-	6	4/5/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	FOA-T19-1015	14865178.97	1757263.703	Mag & Dig	Analog	White's XLT	Munitions Debris	Spacer	1	Illumination, Spacer	0.01	NA	-	-	3	4/5/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T19-1048	14863530.82	1755648.726	Mag & Dig	Analog	White's XLT	Munitions Debris	Spacer	1	81mm, Spacer	0.02	NA	-	-	6	4/12/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T54-1103	14874812.29	1770501.2	Mag & Dig	Analog	White's XLT	Cultural Debris	Rebar	1	Rebar		NA	-	-	1	5/2/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T60-1001	14875591.82	1769163.376	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	NA	-	-	3	5/2/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T60-1002	14875621.08	1769185.309	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1.5	NA	-	-	3	5/2/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T54-1104	14874815.95	1770503.941	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	5/2/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T60-1003	14875826.02	1769369.211	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	4	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T60-1004	14875972.54	1769525.806	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	2	Blank Ammunition	0.1	NA	-	-	3	5/2/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T60-1005	14876042.76	1769715.944	Mag & Dig	Analog	White's XLT	Small Arms	Blank Ammunition	7	Blank Ammunition. Debris too large to clear.	0.1	NA	-	-	3	5/2/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T59-1001	14875234.65	1769118.342	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	0.5	NA	-	-	0	5/3/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T59-1002	14875165.45	1769118.711	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	3' metal spring		NA	-	-	0	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T59-1003	14875242.14	1769156.961	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.1	NA	-	-	0	5/3/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T59-1004	14875264.1	1769176.169	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Large construction land fill area. Debris too large to clear.		NA	-	-	0	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T59-1005	14875275.12	1769195.441	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	5/3/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T59-1006	14875271.59	1769214.785	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable. Debris too large to clear.		NA	-	-	1	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T59-1007	14875308.32	1769272.576	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	5/3/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T59-1008	14875411.15	1769432.173	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	0	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T59-1009	14875773.38	1769742.24	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	3	5/3/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T59-1010	14875817.37	1769794.465	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	4	5/3/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T59-1011	14875824.8	1769822.036	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire. Debris too large to clear.		NA	-	-	1	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T21-1002	14863542.89	1754971.036	Mag & Dig	Analog	White's XLT	Munitions Debris	Flare	1	Flare, Expended	0.01	NA	-	-	6	4/14/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T21-1005	14863619.43	1755061.279	Mag & Dig	Analog	White's XLT	Munitions Debris	Flare	1	Flare, Expended	0.01	NA	-	-	3	4/14/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T21-1006	14863619.43	1755061.279	Mag & Dig	Analog	White's XLT	Munitions Debris	Flare	1	60mm, Illumination, Canister, empty	0.02	NA	-	-	3	4/14/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T22-1002	14863458.05	1754592.147	Mag & Dig	Analog	White's XLT	Munitions Debris	Flare	1	Flare, Expended	0.01	NA	-	-	3	4/14/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T23-904	14864403.51	1755125.239	Mag & Dig	Analog	White's XLT	Munitions Debris	Flare	1	Flare, Expended	0.1	NA	-	-	1	4/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T59-1012	14876322.77	1770313.588	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	3	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T59-1013	14876319.18	1770324.651	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	3	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T23-907	14864359.91	1755146.992	Mag & Dig	Analog	White's XLT	Munitions Debris	Flare	1	Flare, Expended	0.1	NA	-	-	0	4/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T23-909	14864336.23	1755143.511	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Fuzed M43 81mm mortar, Practice	3	NA	-	-	0	4/27/2012	Paul Novak	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T25-911	14864600.68	1754536.476	Mag & Dig	Analog	White's XLT	UXO	Mortar	1	Fuzed 81mm M374 body, wax filled	10	NA	-	-	1	4/12/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T54-1113	14874815.9	1770495.655	Mag & Dig	Analog	White's XLT	Cultural Debris	Rebar	1	Rebar		NA	-	-	6	5/3/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T54-1114	14874830.51	1770501.101	Mag & Dig	Analog	White's XLT	Cultural Debris	Rebar	1	Rebar	1.5	NA	-	-	8	5/3/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T59-1014	14876494.46	1770409.302	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris. Debris too large to clear.		NA	-	-	0	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T27-1107	14866003.98	1755228.953	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	25	NA	-	-	1	4/14/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T60-1006	14876708.52	1770256.295	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	4	5/3/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T60-1007	14876704.93	1770264.594	Mag & Dig	Analog	White's XLT	Small Arms	Ball Ammunition	1	Ball Ammunition	0.01	NA	-	-	3	5/3/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T37-1003	14876090.29	1762045.489	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	2	5/12/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T60-1008	14876704.94	1770267.355	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	4	5/3/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T60-1009	14876712.29	1770278.359	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	3	5/3/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T60-1010	14876738.37	1770388.658	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	10	NA	-	-	4	5/3/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T37-1004	14876291.51	1762223.944	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	2	NA	-	-	4	5/12/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T54-1118	14874874.3	1770517.433	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	6	5/3/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T60-1011	14876833.71	1770506.867	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock		NA	-	-	4	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T60-1012	14876928.53	1770531.207	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	2	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T37-1005	14876295.55	1762303.994	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	6	5/12/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T37-1006	14876291.95	1762312.292	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	2	NA	-	-	6	5/12/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T60-1013	14876954.21	1770564.197	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	3	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T53-1103	14874693.88	1770830.423	Mag & Dig	Analog	White's XLT	Munitions Debris	Missile	1	Components	20	NA	-	-	0	5/2/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T54-1122	14874878.03	1770533.98	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	12	5/3/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T53-1104	14874772.99	1770642.23	Mag & Dig	Analog	White's XLT	Munitions Debris	Mine	1	M79 Anti tank mine, training	5	NA	-	-	0	5/2/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T54-1101	14874815.88	1770490.133	Mag & Dig	Analog	White's XLT	Munitions Debris	Rocket	1	3.5"	20	NA	-	-	1	5/2/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T58-1001	14876401.53	1770735.604	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0.01	NA	-	-	3	5/3/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T58-1002	14876254.9	1770559.686	Mag & Dig	Analog	White's XLT	Small Arms	Shotgun Primer	1	Shotgun Primer	0.01	NA	-	-	1	5/3/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T54-1125	14874896.38	1770558.729	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Birdhouse		NA	-	-	0	5/3/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T58-1003	14875456.55	1769749.46	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	0.01	NA	-	-	4	5/3/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T58-1004	14875248.19	1769606.994	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	37	37 Items of Scrap Metal and Possible MD	10	NA	-	-	6	5/3/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T54-1126	14875134.53	1770822.517	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.1	NA	-	-	6	5/3/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T58-1005	14875292.13	1769650.937	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	3	5/3/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T54-1127	14875214.78	1770844.175	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.1	NA	-	-	4	5/3/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T58-1006	14875149.43	1769527.449	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable. Debris too large to clear.		NA	-	-	2	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T58-1007	14875123.59	1769464.083	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	2	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T58-1008	14875134.56	1769472.305	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag	0.1	NA	-	-	4	5/3/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T58-1009	14875123.63	1769472.363	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	2	5/3/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T58-1010	14875112.75	1769480.708	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable. Debris too large to clear.		NA	-	-	1	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T57-1001	14876246.08	1770951.802	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0.1	NA	-	-	6	5/3/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T57-1002	14876220.37	1770910.528	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable. Debris too large to clear.		NA	-	-	0	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T57-1003	14875766.24	1770446.355	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Arrow		NA	-	-	2	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T57-1004	14875205.37	1769772.896	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	2	Barbed-wire		NA	-	-	3	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T57-1005	14874978.81	1769633.287	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt		NA	-	-	1	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T57-1006	14874960.57	1769627.865	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire. Debris too large to clear.		NA	-	-	0	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T57-1007	14874956.93	1769627.881	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.1	NA	-	-	2	5/3/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T57-1008	14874912.99	1769583.938	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	2	Foil		NA	-	-	2	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T57-1009	14874916.36	1769534.221	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	2	Pipe. Debris too large to clear.		NA	-	-	1	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T56-1001	14874961.75	1769848.753	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable. Debris too large to clear.		NA	-	-	0	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T56-1002	14874984.35	1769986.689	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	2	Barbed-wire		NA	-	-	1	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T56-1003	14875079.31	1770035.883	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	2	Barbed-wire		NA	-	-	1	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T56-1004	14876079	1771035.537	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	50 cal. magazine	0.5	NA	-	-	4	5/3/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T51-1101	14874862.03	1771616.454	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	manhole		NA	-	-	0	5/3/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T51-1102	14874840.32	1771641.426	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	4	5/3/2012	Rick Shellenbarger	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	FOA-T51-1103	14874821.9	1771602.869	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	6	5/3/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T51-1104	14874777.76	1771523.031	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	12.5	NA	-	-	8	5/3/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T51-1105	14874759.39	1771492.758	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	4.5	NA	-	-	4	5/3/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T51-1106	14874733.95	1771503.941	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	15	NA	-	-	8	5/3/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T51-1107	14874730.17	1771479.113	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag		NA	-	-	8	5/3/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T51-1108	14874704.43	1771432.309	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag	0.1	NA	-	-	8	5/3/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T51-1109	14874668.01	1771432.51	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	8	NA	-	-	9	5/3/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T51-1110	14874660.41	1771374.565	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag	0.1	NA	-	-	4	5/3/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T51-1111	14874594.57	1771322.459	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Railroad Spike	1.5	NA	-	-	6	5/3/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T51-1112	14874550.46	1771248.145	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag		NA	-	-	15	5/3/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T51-1113	14874532.23	1771245.482	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag		NA	-	-	4	5/3/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T51-1114	14874462.36	1771121.602	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag		NA	-	-	3	5/3/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T51-1115	14874447.59	1771085.786	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	16	NA	-	-	4	5/3/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T56-1005	14876115.41	1771032.582	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	2	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T50-1101	14874018.06	1771129.534	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	5/3/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T50-1102	14874457.65	1771596.563	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	12.5	NA	-	-	8	5/3/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T50-1103	14874472.86	1771715.214	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	0	5/3/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T49-1102	14874141.05	1771645.225	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	1	NA	-	-	1	5/3/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FOA-T55-1001	14875352.35	1770691.566	Mag & Dig	Analog	White's XLT	Small Arms	Shotgun Primer	1	Shotgun Primer	0.01	NA	-	-	1	5/3/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T55-1002	14875352.28	1770677.764	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable. Debris too large to clear.		NA	-	-	1	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T55-1003	14875330.31	1770655.79	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire		NA	-	-	1	5/3/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T55-1004	14875128.69	1770413.898	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	pliers	0.1	NA	-	-	2	5/3/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T70-1001	14878594.57	1768785.697	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	3	5/10/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T70-1002	14878770.15	1768928.319	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	0	5/10/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-T70-1003	14878802.93	1768928.148	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	4	Fencing/Fence Post	0.5	NA	-	-	3	5/10/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T71-1001	14878991.52	1768778.064	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire		NA	-	-	0	5/10/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-T71-1002	14878716.97	1768517.253	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire		NA	-	-	0	5/10/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-T54-1102	14874830.48	1770495.579	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.5	NA	-	-	1	5/2/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T71-1004	14878131.37	1767976.477	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	3	5/10/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T71-1005	14877384.77	1767292.962	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	telephone pole and wire		NA	-	-	0	5/10/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-T71-1006	14877307.83	1767207.778	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	railway track		NA	-	-	0	5/10/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-T71-1007	14877322.32	1767191.133	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	6	5/10/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T71-1008	14877032.47	1766786.797	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Aluminum	0.1	NA	-	-	3	5/10/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T71-1009	14877014.23	1766781.374	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Aluminum	0.1	NA	-	-	3	5/10/2012	Jason Leseiko	Transferred to PTA
Former Operational Area	FOA-T71-1010	14876835.13	1766660.829	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	2	5/10/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-T71-1011	14876556.13	1766239.856	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	1	5/10/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-T71-1012	14876398.64	1766069.491	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	2	5/10/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-T71-1013	14876314.47	1765992.621	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag		NA	-	-	0	5/10/2012	Jason Leseiko	Left in place
Former Operational Area	FOA-T54-1105	14874812.26	1770495.677	Mag & Dig	Analog	White's XLT	Munitions Debris	Projectile	1	75mm, Body, empty	20	NA	-	-	8	5/3/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-22-2	14863223.96	1756526.96	Channel 2	946.54	White's XLT	Munitions Debris	Submunition	1	M42 Submunition, Empty	0.5	0	14863223.96	1756526.96	6	5/10/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T54-1106	14874808.62	1770495.697	Mag & Dig	Analog	White's XLT	Munitions Debris	Projectile	1	75mm, Body, empty	20	NA	-	-	8	5/3/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T54-1107	14874823.1	1770479.052	Mag & Dig	Analog	White's XLT	Munitions Debris	Projectile	1	75mm, Body, empty	12.5	NA	-	-	9	5/3/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T51-1116	14875305.43	1772111.054	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	1	5/17/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T50-1104	14875244.52	1772296.382	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	3	5/17/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T50-1105	14875211.55	1772260.669	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	9	5/17/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T50-1106	14875109.38	1772225.332	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	0	5/17/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T50-1107	14874930.08	1772071.685	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	downed barbed wire fencing		NA	-	-	1	5/17/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T54-1128	14875724.37	1771459.906	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	1	5/17/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T18-1127	14864021.56	1756365.994	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable. Debris too large to clear.		NA	-	-	3	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T18-1128	14864058.09	1756390.681	Mag & Dig	Analog	White's XLT	Cultural Debris	Concrete	1	Concrete. Debris too large to clear.		NA	-	-	12	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T49-1103	14874463.52	1772005.196	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris. Debris too large to clear.		NA	-	-	1	5/17/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T49-1104	14874661.27	1772202.926	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	1	5/17/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T49-1105	14874654.09	1772222.294	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	0	5/17/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T49-1106	14874683.29	1772233.179	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire. Debris too large to clear.		NA	-	-	0	5/17/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T49-1107	14874694.43	1772271.778	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	0	5/17/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T18-1129	14864083.71	1756415.419	Mag & Dig	Analog	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		NA	-	-	8	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-22-3	14863223.96	1756526.96	Channel 2	946.54	White's XLT	Munitions Debris	Projectile	1	40mm, Grenade Body, empty	0.5	0	14863223.96	1756526.96	8	5/10/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T54-1108	14874790.26	1770468.181	Mag & Dig	Analog	White's XLT	Munitions Debris	Projectile	1	75mm, Body, empty	12.5	NA	-	-	12	5/3/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T54-1109	14874826.83	1770495.599	Mag & Dig	Analog	White's XLT	Munitions Debris	Fuze	1	3.5" Rocket fuze, expended	2	NA	-	-	15	5/3/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T54-1110	14874823.18	1770492.855	Mag & Dig	Analog	White's XLT	Munitions Debris	Projectile	1	Nose	1	NA	-	-	8	5/3/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T48-1106	14874399.4	1772267.865	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	2	5/17/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T54-1111	14874815.86	1770487.372	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	5	Fragment	2.5	NA	-	-	8	5/3/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T48-1107	14874381.08	1772248.639	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	0	5/17/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T48-1108	14874351.85	1772232.228	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	0	5/17/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T48-1109	14874300.47	1772160.718	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	6	Construction Debris. Debris too large to clear.		NA	-	-	0	5/17/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T54-1112	14874819.38	1770465.266	Mag & Dig	Analog	White's XLT	Munitions Debris	Fuze	1	fuze body, empty	0.5	NA	-	-	6	5/3/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T48-1110	14874164.84	1772001.304	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire. Debris too large to clear.		NA	-	-	0	5/17/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T54-1115	14874856.13	1770525.814	Mag & Dig	Analog	White's XLT	Munitions Debris	Projectile	1	75mm, Body, empty	20	NA	-	-	12	5/3/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T54-1116	14874848.83	1770523.092	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	5	Fragment	2.5	NA	-	-	15	5/3/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T47-1107	14873961.65	1772143.236	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	1	5/17/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T47-1108	14874038.44	1772198.043	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	0	5/17/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T54-1117	14874848.8	1770517.57	Mag & Dig	Analog	White's XLT	Munitions Debris	Rocket	1	3.5" Rocket Motor, expended	10	NA	-	-	12	5/3/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T47-1109	14874174.03	1772349.173	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	0	5/17/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T74-1001	14878970.89	1766243.826	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	5/23/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T74-1002	14879179.19	1766378.013	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	5/23/2012	Eric Kidder	Transferred to PTA
Former Operational Area	FOA-T75-1001	14880583.65	1767499.743	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		NA	-	-	1	5/23/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T75-1002	14880364.21	1767326.984	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	rolls of barbwire		NA	-	-	0	5/23/2012	Eric Kidder	Left in place
Former Operational Area	FOA-T21-1007	14864745.15	1756119.434	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		NA	-	-	0	5/31/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T21-1008	14864673.69	1756407.059	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		NA	-	-	0	5/31/2012	Rick Shellenbarger	Left in place

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	FSL-0	14862140.9	1756056.62	Channel 2	266.84	White's XLT	Cultural Debris	Metal Scrap	5	Metal Scrap	1	0	14862140.9	1756056.62	9	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-1	14862159.16	1756047.51	Channel 2	40.61	White's XLT	Small Arms	Shotgun Primer	1	Shotgun Primer	0.01	0	14862159.16	1756047.51	6	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-10-1	14862272.66	1756008.64	Channel 2	1205.55	White's XLT	Cultural Debris	Metal Scrap	1	large steel bucket	9.5	0	14862272.66	1756008.64	30	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-10-2	14862272.66	1756008.64	Channel 2	1205.55	White's XLT	Cultural Debris	Metal Scrap	1	rust flakes		0	14862272.66	1756008.64	30	5/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-11	14862299.77	1756036.95	Channel 2	233.77	White's XLT	UXO	SubMunition	1	BLU-3b Submunition	3.5	0	14862299.77	1756036.95	6	5/5/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FSL-12	14862288.54	1756041.96	Channel 2	617.70	White's XLT	UXO	SubMunition	1	BLU 3b	3.5	0	14862288.54	1756041.96	9	5/5/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-22-4	14863223.96	1756526.96	Channel 2	946.54	White's XLT	Munitions Debris	Other MD	2	Burster Tube, expended	0.5	0	14863223.96	1756526.96	12	5/10/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FSL-13-2	14862283.54	1756046.38	Channel 2	181.15	White's XLT	Cultural Debris	Cable	1	Cable		0	14862283.54	1756046.38	30	5/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-13-1	14862283.54	1756046.38	Channel 2	181.15	White's XLT	UXO	SubMunition	6	BLU-3b Submunition	3.5	0	14862283.54	1756046.38	18	5/5/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FSL-14-1	14862279.47	1756051.59	Channel 2	205.43	White's XLT	Munitions Debris	Submunition	1	BLU 36 Striker Plate	0.5	0	14862279.47	1756051.59	33	5/5/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FSL-14-2	14862279.47	1756051.59	Channel 2	205.43	White's XLT	Munitions Debris	Frag	1	Fragment	3	0	14862279.47	1756051.59	33	5/5/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FSL-14-3	14862279.47	1756051.59	Channel 2	205.43	White's XLT	Munitions Debris	Other MD	1	Lifting Lug	1.5	0	14862279.47	1756051.59	33	5/5/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FSL-15	14862273.33	1756060.4	Channel 2	102.33	White's XLT	Munitions Debris	SubMunition	2	BLU-3b Submunition	0.1	0	14862273.33	1756060.4	6	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-16	14862262.65	1756069.57	Channel 2	172.28	White's XLT	No Contact		1	No Contact						5/9/2012	Rick Shellenbarger	NA
Former Operational Area	FSL-17	14862250.47	1756069.8	Channel 2	71.51	White's XLT	No Contact		1	No Contact						5/5/2012	Rick Shellenbarger	NA
Former Operational Area	FSL-18	14862234.47	1756073.89	Channel 2	19.81	White's XLT	No Contact		1	No Contact						5/5/2012	Rick Shellenbarger	NA
Former Operational Area	FSL-19	14862228.75	1756075.34	Channel 2	10.44	White's XLT	No Contact		1	No Contact						5/9/2012	Rick Shellenbarger	NA
Former Operational Area	FSL-2-1	14862167.39	1756042.04	Channel 2	21.95	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.5	0	14862167.39	1756042.04	18	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-2-2	14862167.39	1756042.04	Channel 2	21.95	White's XLT	Cultural Debris	Metal Scrap	1	banding		0	14862167.39	1756042.04	18	5/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-20	14862213.65	1756073.58	Channel 2	255.73	White's XLT	Cultural Debris	Metal Scrap	1	washer		0	14862213.65	1756073.58	4	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-21	14862207.88	1756073.49	Channel 2	355.07	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14862207.88	1756073.49	8	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-22	14862205.61	1756074.11	Channel 2	360.28	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14862205.61	1756074.11	2	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-23	14862199.85	1756075.49	Channel 2	123.34	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1.5	0	14862199.85	1756075.49	8	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-14-4	14862279.47	1756051.59	Channel 2	205.43	White's XLT	Munitions Debris	Other MD	1	Miscellaneous Unknown Components	0.1	0	14862279.47	1756051.59	33	5/5/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FSL-24-2	14862190.49	1756081.42	Channel 2	252.24	White's XLT	Small Arms	Shotgun Primer	1	Shotgun Primer	0.02	0	14862190.49	1756081.42	3	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-24-3	14862190.49	1756081.42	Channel 2	252.24	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14862190.49	1756081.42	2	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-25	14862166.54	1756092.54	Channel 2	26.66	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14862166.54	1756092.54	6	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-26	14862160.75	1756092.25	Channel 2	37.70	White's XLT	Cultural Debris	Metal Scrap	1	buried sheet metal		0	14862160.75	1756092.25	33	5/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-27-1	14862152.26	1756097.5	Channel 2	87.86	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	1.5	0	14862152.26	1756097.5	12	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-27-2	14862152.26	1756097.5	Channel 2	87.86	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		0	14862152.26	1756097.5	4	5/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-28-1	14862206.5	1756144.13	Channel 2	3301.08	White's XLT	Cultural Debris	Other	1	garbage can lid	3	0	14862206.5	1756144.13	6	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-28-2	14862206.5	1756144.13	Channel 2	3301.08	White's XLT	Cultural Debris	Other	1	garbage. Debris too large to clear.		0	14862206.5	1756144.13	6	5/9/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-29-1	14862210.35	1756140.83	Channel 2	880.52	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	5	0	14862210.35	1756140.83	6	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-29-2	14862210.35	1756140.83	Channel 2	880.52	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14862210.35	1756140.83	8	5/9/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-3	14862183.07	1756030.41	Channel 2	66.43	White's XLT	Small Arms	Shotgun Primer	1	Shotgun Primer		0	14862183.07	1756030.41	12	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-30	14862219.24	1756131.96	Channel 2	264.28	White's XLT	Small Arms	Casing	12	Casing	0.01	0	14862219.24	1756131.96	12	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-31	14862242.45	1756125.02	Channel 2	78.29	White's XLT	Small Arms	Shotgun Primer	1	Shotgun Primer	0.01	0	14862242.45	1756125.02	0	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-32	14862256.47	1756100.69	Channel 2	67.11	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14862256.47	1756100.69	6	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-33	14862263.15	1756094.08	Channel 2	274.62	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	10	0	14862263.15	1756094.08	8	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-34-1	14862269.94	1756076.22	Channel 2	212.51	White's XLT	Cultural Debris	Other	1	banding. Debris too large to clear.		0	14862269.94	1756076.22	6	5/9/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-34-2	14862269.94	1756076.22	Channel 2	212.51	White's XLT	Cultural Debris	Other	1	banding.	2	0	14862269.94	1756076.22	6	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-35	14862281.98	1756069.06	Channel 2	417.64	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14862281.98	1756069.06	6	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-36	14862288.8	1756069.17	Channel 2	355.98	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	2	0	14862288.8	1756069.17	6	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-37-1	14862294.14	1756068.58	Channel 2	403.69	White's XLT	Small Arms	Shotgun Primer	1	Shotgun Primer	0.01	0	14862294.14	1756068.58	6	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-37-2	14862294.14	1756068.58	Channel 2	403.69	White's XLT	Cultural Debris	Aluminum	1	Aluminum	1	0	14862294.14	1756068.58	6	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-38-1	14862301.62	1756066.01	Channel 2	580.66	White's XLT	Cultural Debris	Metal Scrap	4	Metal Scrap	10	0	14862301.62	1756066.01	6	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-38-2	14862301.62	1756066.01	Channel 2	580.66	White's XLT	Small Arms	Shotgun Primer	1	Shotgun Primer	0.01	0	14862301.62	1756066.01	6	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-39	14862306.69	1756064.32	Channel 2	834.79	White's XLT	Cultural Debris	Aluminum	1	Aluminum	0.1	0	14862306.69	1756064.32	4	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-4	14862196.88	1756023.83	Channel 2	239.40	White's XLT	Cultural Debris	Aluminum	1	foil	0.1	0	14862196.88	1756023.83	8	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-40	14862311.11	1756062.99	Channel 2	653.01	White's XLT	Small Arms	Shotgun Primer	1	Shotgun Primer	0.02	0	14862311.11	1756062.99	3	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-41-1	14862312.92	1756062.26	Channel 2	592.20	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	0	14862312.92	1756062.26	6	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-41-2	14862312.92	1756062.26	Channel 2	592.20	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14862312.92	1756062.26	6	5/9/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-42	14862315.55	1756061.33	Channel 2	545.04	White's XLT	Cultural Debris	Can	1	Can	0.01	0	14862315.55	1756061.33	0	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-43	14862323.31	1756057.07	Channel 2	12965.33	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14862323.31	1756057.07	0	5/9/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-44-1	14862333.09	1756051.82	Channel 2	447.76	White's XLT	Cultural Debris	Foil	1	Foil. Debris too large to clear.		0	14862333.09	1756051.82	2	5/9/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-44-2	14862333.09	1756051.82	Channel 2	447.76	White's XLT	Small Arms	Shotgun Primer	1	Shotgun Primer	0.01	0	14862333.09	1756051.82	6	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-44-3	14862333.09	1756051.82	Channel 2	447.76	White's XLT	Cultural Debris	Nail	1	Nail	0.01	0	14862333.09	1756051.82	6	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-45-1	14862337.33	1756051.01	Channel 2	346.90	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14862337.33	1756051.01	6	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-45-2	14862337.33	1756051.01	Channel 2	346.90	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14862337.33	1756051.01	6	5/9/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-46-1	14862343.35	1756050.92	Channel 2	199.78	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		0	14862343.35	1756050.92	6	5/9/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-46-2	14862343.35	1756050.92	Channel 2	199.78	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14862343.35	1756050.92	6	5/9/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-47-1	14862348.07	1756049.41	Channel 2	155.61	White's XLT	Cultural Debris	Metal Scrap	1	pulley	1	0	14862348.07	1756049.41	6	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-47-2	14862348.07	1756049.41	Channel 2	155.61	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14862348.07	1756049.41	24	5/9/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-47-3	14862348.07	1756049.41	Channel 2	155.61	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		0	14862348.07	1756049.41	6	5/9/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-24-1	14862190.49	1756081.42	Channel 2	252.24	White's XLT	Munitions Debris	Frag	1	BLU-26/36 sleeve fragment	0.1	0	14862190.49	1756081.42	3	5/5/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FSL-48-2	14862353.21	1756046.3	Channel 2	641.06	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		0	14862353.21	1756046.3	30	5/9/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-49-1	14862360.54	1756041.28	Channel 2	108.90	White's XLT	Cultural Debris	Rebar	1	Rebar		0	14862360.54	1756041.28	0	5/9/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-49-2	14862360.54	1756041.28	Channel 2	108.90	White's XLT	Small Arms	Shotgun Primer	1	Shotgun Primer	0.01	0	14862360.54	1756041.28	4	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-49-3	14862360.54	1756041.28	Channel 2	108.90	White's XLT	Cultural Debris	Wire	1	Wire		0	14862360.54	1756041.28	4	5/9/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-5	14862219.58	1756015.82	Channel 2	626.64	White's XLT	Cultural Debris	Wire	2	Wire	0.1	0	14862219.58	1756015.82	6	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-50-1	14862353.12	1756064.61	Channel 2	995.18	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14862353.12	1756064.61	8	5/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-50-2	14862353.12	1756064.61	Channel 2	995.18	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	4.5	0	14862353.12	1756064.61	6	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-48-1	14862353.21	1756046.3	Channel 2	641.06	White's XLT	Munitions Debris	Other MD	1	Powder Can	30	0	14862353.21	1756046.3	30	5/9/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FSL-50-3	14862353.12	1756064.61	Channel 2	995.18	White's XLT	Munitions Debris	Rocket	1	2.75" Rocket Venturi	1.5	0	14862353.12	1756064.61	3	5/5/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FSL-50-5	14862353.12	1756064.61	Channel 2	995.18	White's XLT	Cultural Debris	Metal Scrap	1	rust flakes		0	14862353.12	1756064.61	8	5/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-51-1	14862347.3	1756067.91	Channel 2	460.99	White's XLT	Cultural Debris	Metal Scrap	1	155 mm Powder Can		0	14862347.3	1756067.91	8	5/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-50-4	14862353.12	1756064.61	Channel 2	995.18	White's XLT	Munitions Debris	Other MD	1	155 mm Powder Can		0	14862353.12	1756064.61	9	5/5/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FSL-52-1	14862345.04	1756069.73	Channel 2	607.38	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	5.5	0	14862345.04	1756069.73	18	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-52-2	14862345.04	1756069.73	Channel 2	607.38	White's XLT	Cultural Debris	Metal Scrap	1	rust flakes		0	14862345.04	1756069.73	18	5/5/2012	Rick Shellenbarger	Left in place

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	FSL-53-1	14862341.54	1756070.05	Channel 2	290.76	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14862341.54	1756070.05	15	5/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-53-2	14862341.54	1756070.05	Channel 2	290.76	White's XLT	Cultural Debris	Metal Scrap	7	Metal Scrap	10	0	14862341.54	1756070.05	12	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-54	14862318.23	1756081.89	Channel 2	883.52	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14862318.23	1756081.89	4	5/9/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-55-1	14862314.57	1756085.99	Channel 2	575.30	White's XLT	Cultural Debris	Other	1	banding	1	0	14862314.57	1756085.99	8	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-55-2	14862314.57	1756085.99	Channel 2	575.30	White's XLT	Cultural Debris	Other	1	banding. Debris too large to clear.		0	14862314.57	1756085.99	8	5/9/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-56-1	14862300.27	1756093.9	Channel 2	514.67	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	0	14862300.27	1756093.9	6	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-56-2	14862300.27	1756093.9	Channel 2	514.67	White's XLT	Cultural Debris	Other	1	Banding .Debris too large to clear.		0	14862300.27	1756093.9	12	5/9/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-57-1	14862293.77	1756096.45	Channel 2	985.00	White's XLT	Cultural Debris	Other	1	rust pit/rust flakes. too much too clear.		0	14862293.77	1756096.45	8	5/9/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-57-2	14862293.77	1756096.45	Channel 2	985.00	White's XLT	Small Arms	Shotgun Primer	1	Shotgun Primer	0.01	0	14862293.77	1756096.45	0	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-58	14862278.41	1756103.5	Channel 2	379.23	White's XLT	Cultural Debris	Bottle Top	1	soda tab.	0.01	0	14862278.41	1756103.5	6	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-59	14862276.24	1756104.73	Channel 2	377.78	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14862276.24	1756104.73	4	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-6	14862230.15	1756014.27	Channel 2	223.49	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	1	0	14862230.15	1756014.27	12	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-60	14862246.9	1756136.33	Channel 2	60.10	White's XLT	Cultural Debris	Nail	1	Nail	0.01	0	14862246.9	1756136.33	0	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-61	14862242.4	1756140.91	Channel 2	25.16	White's XLT	Cultural Debris	Other	1	paper clip	0.01	0	14862242.4	1756140.91	2	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-62	14862228.85	1756153.95	Channel 2	170.65	White's XLT	Cultural Debris	Aluminum	1	Aluminum	0.1	0	14862228.85	1756153.95	4	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-63	14862225.17	1756158.95	Channel 2	364.72	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14862225.17	1756158.95	8	5/9/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-64-1	14862217.98	1756165.75	Channel 2	877.41	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	5	0	14862217.98	1756165.75	8	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-64-2	14862217.98	1756165.75	Channel 2	877.41	White's XLT	Cultural Debris	Other	1	circuit board material. too much too clear.		0	14862217.98	1756165.75	4	5/9/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-65-1	14862121.42	1756021.33	Channel 2	72.00	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post	12.5	3	14862121.24	1756021.153	6	5/4/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-65-2	14862121.42	1756021.33	Channel 2	72.00	White's XLT	Cultural Debris	Can	1	Can	0.02	20	14862120.24	1756020.151	3	5/4/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-65-3	14862121.42	1756021.33	Channel 2	72.00	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	24	14862122.83	1756022.744	4	5/4/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-65-4	14862121.42	1756021.33	Channel 2	72.00	White's XLT	Cultural Debris	Slag	1	Fuze sheared off. Debris too large to clear.		24	14862122.83	1756022.744	24	5/4/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-66	14862125.76	1756017.12	Channel 2	71.03	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post	10	6	14862125.41	1756016.766	3	5/4/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-67	14862135.06	1756011.85	Channel 2	79.57	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		0	14862135.06	1756011.85	2	5/4/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-68	14862136.99	1756011.25	Channel 2	105.04	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		0	14862136.99	1756011.25	2	5/4/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-69	14862139.55	1756010.38	Channel 2	119.08	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		0	14862139.55	1756010.38	1	5/4/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-7-1	14862240.71	1756012.34	Channel 2	243.08	White's XLT	Cultural Debris	Metal Scrap	3	banding	0.1	0	14862240.71	1756012.34	39	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-7-2	14862240.71	1756012.34	Channel 2	243.08	White's XLT	Cultural Debris	Metal Scrap	1	buried banding		0	14862240.71	1756012.34	39	5/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-7-3	14862240.71	1756012.34	Channel 2	243.08	White's XLT	Cultural Debris	Aluminum	1	foil	1	0	14862240.71	1756012.34	39	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-7-4	14862240.71	1756012.34	Channel 2	243.08	White's XLT	Cultural Debris	Metal Scrap	1	banding	0.5	0	14862240.71	1756012.34	12	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-70	14862142	1756009.55	Channel 2	152.73	White's XLT	Cultural Debris	Pipe	1	Pipe		4	14862142	1756009.217	0	5/4/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-71	14862148.09	1756008.44	Channel 2	1412.36	White's XLT	Cultural Debris	Pipe	1	Pipe		2	14862148.21	1756008.558	0	5/4/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-72	14862158.74	1756010.33	Channel 2	52.70	White's XLT	Cultural Debris	Pipe	1	Pipe		0	14862158.74	1756010.33	0	5/4/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-73	14862161.42	1756011.09	Channel 2	56.06	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	10	0	14862161.42	1756011.09	4	5/4/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-74-1	14862169.38	1756011.55	Channel 2	371.30	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1.5	0	14862169.38	1756011.55	15	5/4/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-74-2	14862169.38	1756011.55	Channel 2	371.30	White's XLT	Cultural Debris	Metal Scrap	1	banding		6	14862169.73	1756011.904	21	5/4/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-75-1	14862176.5	1756009.91	Channel 2	141.28	White's XLT	Cultural Debris	Metal Scrap	10	banding	1.5	0	14862176.5	1756009.91	24	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-75-2	14862176.5	1756009.91	Channel 2	141.28	White's XLT	Cultural Debris	Metal Scrap	1	banding		0	14862176.5	1756009.91	24	5/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-76-1	14862182.72	1756006.21	Channel 2	199.04	White's XLT	Small Arms	Casing	6	Casing	0.02	0	14862182.72	1756006.21	21	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-76-2	14862182.72	1756006.21	Channel 2	199.04	White's XLT	Cultural Debris	Metal Scrap	1	railway spike	2.5	0	14862182.72	1756006.21	18	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-76-3	14862182.72	1756006.21	Channel 2	199.04	White's XLT	Small Arms	Casing	1	small arms pit		0	14862182.72	1756006.21	21	5/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-51-2	14862347.3	1756067.91	Channel 2	460.99	White's XLT	Munitions Debris	Other MD	1	Powder Can	30	0	14862347.3	1756067.91	12	5/9/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FSL-77-2	14862189.58	1756001.83	Channel 2	2220.59	White's XLT	Cultural Debris	Pipe	1	buried pipe		0	14862189.58	1756001.83	27	5/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-78	14862195.79	1755995.14	Channel 2	675.51	White's XLT	Cultural Debris	Metal Scrap	1	buried metal railway track		0	14862195.79	1755995.14	12	5/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-79-1	14862201.39	1755991	Channel 2	121.98	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	2.5	0	14862201.39	1755991	30	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-79-2	14862201.39	1755991	Channel 2	121.98	White's XLT	Cultural Debris	Aluminum	1	foil	2	0	14862201.39	1755991	30	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-79-3	14862201.39	1755991	Channel 2	121.98	White's XLT	Cultural Debris	Aluminum	1	large amount of foil		0	14862201.39	1755991	30	5/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-8-1	14862250.69	1756010.16	Channel 2	909.04	White's XLT	Cultural Debris	Aluminum	1	buried foil		0	14862250.69	1756010.16	27	5/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-8-2	14862250.69	1756010.16	Channel 2	909.04	White's XLT	Cultural Debris	Aluminum	1	foil	1	0	14862250.69	1756010.16	27	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-80	14862208.9	1755982.42	Channel 2	185.26	White's XLT	Cultural Debris	Metal Scrap	1	buried rail		0	14862208.9	1755982.42	15	5/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-77-1	14862189.58	1756001.83	Channel 2	2220.59	White's XLT	Munitions Debris	Flare	1	Flare, expended	0.5	0	14862189.58	1756001.83	27	5/5/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FSL-82-1	14862241.87	1755978.03	Channel 2	759.54	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14862241.87	1755978.03	15	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-82-2	14862241.87	1755978.03	Channel 2	759.54	White's XLT	Cultural Debris	Pipe	1	buried pipe		0	14862241.87	1755978.03	12	5/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-83	14862268.01	1756113.772	Channel 2	8.84	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14862268.01	1756113.772	6	5/5/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	FSL-9-1	14862260.95	1756008.44	Channel 2	1111.00	White's XLT	Cultural Debris	Aluminum	1	buried foil		0	14862260.95	1756008.44	21	5/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-9-2	14862260.95	1756008.44	Channel 2	1111.00	White's XLT	Cultural Debris	Metal Scrap	1	nails		0	14862260.95	1756008.44	21	5/5/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-0-1	14863369.37	1756651.68	Channel 2	1926.60	White's XLT	Cultural Debris	Concrete	1	Concrete. Debris too large to clear.		0	14863369.37	1756651.68	6	5/9/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-0-2	14863369.37	1756651.68	Channel 2	1926.60	White's XLT	Cultural Debris	Rebar	1	Rebar	3	0	14863369.37	1756651.68	12	5/9/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-0-3	14863369.37	1756651.68	Channel 2	1926.60	White's XLT	Cultural Debris	Metal Scrap	1	sheet metal, Debris too large to clear.		0	14863369.37	1756651.68	18	5/9/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-1-1	14863364.52	1756645.15	Channel 2	153.76	White's XLT	Cultural Debris	Brass	1	Brass		0	14863364.52	1756645.15	8	5/9/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-1-2	14863364.52	1756645.15	Channel 2	153.76	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	0	14863364.52	1756645.15	8	5/10/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-22-5	14863223.96	1756526.96	Channel 2	946.54	White's XLT	Munitions Debris	Tube	1	Flash Tubes and Primers	0.1	0	14863223.96	1756526.96	12	5/10/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-2	14863320.3	1756614.04	Channel 2	151.15	White's XLT	Cultural Debris	Rebar	1	Rebar	2	0	14863320.3	1756614.04	12	5/10/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-3	14863316.43	1756609.85	Channel 2	1580.89	White's XLT	Cultural Debris	Metal Scrap	1	warped sheet metal	20	0	14863316.43	1756609.85	12	5/10/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-4-1	14863311.17	1756605.06	Channel 2	619.53	White's XLT	Cultural Debris	Rebar	1	Rebar	5	0	14863311.17	1756605.06	8	5/10/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-4-2	14863311.17	1756605.06	Channel 2	619.53	White's XLT	Cultural Debris	Slag	1	Slag	15	0	14863311.17	1756605.06	4	5/10/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-4-3	14863311.17	1756605.06	Channel 2	619.53	White's XLT	Cultural Debris	Nail	1	Nail	0.01	0	14863311.17	1756605.06	6	5/10/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-5	14863304.92	1756601.45	Channel 2	11459.82	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863304.92	1756601.45	0	5/10/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-6-1	14863296.62	1756592.23	Channel 2	1363.62	White's XLT	Cultural Debris	Pipe	1	Pipe	10	0	14863296.62	1756592.23	18	5/10/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-6-2	14863296.62	1756592.23	Channel 2	1363.62	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14863296.62	1756592.23	18	5/10/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-7-1	14863289.5	1756586.68	Channel 2	1067.72	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	15	0	14863289.5	1756586.68	8	5/10/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-7-2	14863289.5	1756586.68	Channel 2	1067.72	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863289.5	1756586.68	8	5/10/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-8	14863287.37	1756584.7	Channel 2	2839.57	White's XLT	Cultural Debris	Metal Scrap	1	sheet metal. Debris too large to clear.		0	14863287.37	1756584.7	0	5/10/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-9	14863284.89	1756582.96	Channel 2	3002.26	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863284.89	1756582.96	0	5/10/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-11	14863274.15	1756573.6	Channel 2	271.68	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863274.15	1756573.6	6	5/10/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-10	14863277.81	1756576.95	Channel 2	1030.57	White's XLT	Cultural Debris	Aluminum	1	Al foil. too much too clear.		0	14863277.81	1756576.95	4	5/10/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-12	14863266.02	1756566.48	Channel 2	522.81	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	5	0	14863266.02	1756566.48	8	5/10/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-13	14863258.66	1756560.81	Channel 2	169.78	White's XLT	Cultural Debris	Pipe	1	Pipe	10	0	14863258.66	1756560.81	8	5/10/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-14	14863254.14	1756557.18	Channel 2	440.27	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863254.14	1756557.18	8	5/10/2012	Rick Shellenbarger	Left in place

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	WBA-15	14863252.14	1756555.47	Channel 2	380.07	White's XLT	Cultural Debris	Metal Scrap	1	black rubbery sheets containing metal. Debris too large to clear.		0	14863252.14	1756555.47	12	5/10/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-16	14863248.93	1756552.68	Channel 2	243.16	White's XLT	Cultural Debris	Concrete	1	hot soil		0	14863248.93	1756552.68	4	5/10/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-17	14863242.99	1756547.84	Channel 2	1854.45	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863242.99	1756547.84	0	5/10/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-18-1	14863240.58	1756546.51	Channel 2	860.07	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863240.58	1756546.51	4	5/10/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-18-2	14863240.58	1756546.51	Channel 2	860.07	White's XLT	Cultural Debris	Other	1	Other. Debris too large to clear.		0	14863240.58	1756546.51	6	5/10/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-19	14863235.81	1756543.06	Channel 2	921.69	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	0	14863235.81	1756543.06	18	5/10/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-20	14863227.96	1756532.77	Channel 2	426.33	White's XLT	Cultural Debris	Metal Scrap	1	metal beam. Debris too large to clear.		0	14863227.96	1756532.77	0	5/10/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-21	14863226.7	1756531.13	Channel 2	468.80	White's XLT	Cultural Debris	Other	1	banding . too much to clear.		0	14863226.7	1756531.13	12	5/10/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-22-1	14863223.96	1756526.96	Channel 2	946.54	White's XLT	Cultural Debris	Metal Scrap	1	garbage can lid	8.5	0	14863223.96	1756526.96	8	5/10/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-22-6	14863223.96	1756526.96	Channel 2	946.54	White's XLT	Munitions Debris	Other MD	1	Other MD. Debris too large to clear. Left in place with Corps approval		0	14863223.96	1756526.96	30	5/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-22-9	14863223.96	1756526.96	Channel 2	946.54	White's XLT	Munitions Debris	Projectile	1	37 mm Projectile, Empty	2	0	14863223.96	1756526.96	30	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-23-1	14863220.24	1756518.98	Channel 2	158.21	White's XLT	Munitions Debris	Other MD	1	Unknown MD	0.1	0	14863220.24	1756518.98	24	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-23-2	14863220.24	1756518.98	Channel 2	158.21	White's XLT	Munitions Debris	Projectile	2	37mm Projectile, empty	1.5	0	14863220.24	1756518.98	24	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-23-4	14863220.24	1756518.98	Channel 2	158.21	White's XLT	Munitions Debris	Submunition	1	M42 Submunition, Inert	1	0	14863220.24	1756518.98	24	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-22-7	14863223.96	1756526.96	Channel 2	946.54	White's XLT	Cultural Debris	Metal Scrap	1	metal scrap pit. 5x5'.Debris too large to clear.		0	14863223.96	1756526.96	30	5/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-22-8	14863223.96	1756526.96	Channel 2	946.54	White's XLT	Cultural Debris	Concrete	1	Concrete. Debris too large to clear.		0	14863223.96	1756526.96	2	5/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-23-5	14863220.24	1756518.98	Channel 2	158.21	White's XLT	Munitions Debris	Fuze	1	M51, Point Detonating, Inert	1	0	14863220.24	1756518.98	18	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-23-6	14863220.24	1756518.98	Channel 2	158.21	White's XLT	Munitions Debris	Other MD	1	Other MD. Debris too large to clear. Left in place with Corps approval		0	14863220.24	1756518.98	18	5/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-24-1	14863217.92	1756515.59	Channel 2	497.26	White's XLT	Munitions Debris	Flare	1	Flare, Expended	4.5	0	14863217.92	1756515.59	18	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-24-2	14863217.92	1756515.59	Channel 2	497.26	White's XLT	Munitions Debris	Projectile	3	37mm Projectile, empty	2	0	14863217.92	1756515.59	18	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-24-3	14863217.92	1756515.59	Channel 2	497.26	White's XLT	Munitions Debris	Rocket	1	3.5" Rocket motor, expended	3	0	14863217.92	1756515.59	18	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-24-5	14863217.92	1756515.59	Channel 2	497.26	White's XLT	Munitions Debris	Other MD	1	Other MD. Debris too large to clear. Left in place with Corps approval		0	14863217.92	1756515.59	18	5/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-25-1	14863216.42	1756514.43	Channel 2	435.31	White's XLT	Munitions Debris	Fuze	2	Base fuze adapter	0.5	0	14863216.42	1756514.43	18	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-22-16	14863223.96	1756526.96	Channel 2	946.54	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	5	0	14863223.96	1756526.96	30	5/11/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-25-2	14863216.42	1756514.43	Channel 2	435.31	White's XLT	Munitions Debris	Fuze	1	Base fuze adapter	0.5	0	14863216.42	1756514.43	18	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-25-3	14863216.42	1756514.43	Channel 2	435.31	White's XLT	Munitions Debris	Other MD	5	Detonation Holders	0.1	0	14863216.42	1756514.43	12	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-23-3	14863220.24	1756518.98	Channel 2	158.21	White's XLT	Cultural Debris	Metal Scrap	1	Metal Plate	5	0	14863220.24	1756518.98	24	5/11/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-25-4	14863216.42	1756514.43	Channel 2	435.31	White's XLT	Munitions Debris	Projectile	4	37mm Projectiles, empty	3	0	14863216.42	1756514.43	12	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-25-5	14863216.42	1756514.43	Channel 2	435.31	White's XLT	Munitions Debris	Other MD	1	Other MD. Debris too large to clear. Left in place with Corps approval		0	14863216.42	1756514.43	18	5/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-26-1	14863212.94	1756511.47	Channel 2	584.09	White's XLT	Munitions Debris	Tube	2	Flash Tubes	2	0	14863212.94	1756511.47	12	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-26-10	14863212.94	1756511.47	Channel 2	584.09	White's XLT	Munitions Debris	Fuze	1	Bomb fuze adapter	2	0	14863212.94	1756511.47	12	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-26-11	14863212.94	1756511.47	Channel 2	584.09	White's XLT	Munitions Debris	Rocket	1	3.5" Rocket warhead, Inert	8	0	14863212.94	1756511.47	18	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-26-12	14863212.94	1756511.47	Channel 2	584.09	White's XLT	Munitions Debris	Fuze	1	2.75" Rocket fuze components	0.01	0	14863212.94	1756511.47	15	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-24-4	14863217.92	1756515.59	Channel 2	497.26	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	10	0	14863217.92	1756515.59	18	5/11/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-23-7	14863220.24	1756518.98	Channel 2	158.21	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863220.24	1756518.98	18	5/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-26-13	14863212.94	1756511.47	Channel 2	584.09	White's XLT	Munitions Debris	Tube	1	Burster Tube, expended	5	0	14863212.94	1756511.47	18	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-24-6	14863217.92	1756515.59	Channel 2	497.26	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863217.92	1756515.59	18	5/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-26-14	14863212.94	1756511.47	Channel 2	584.09	White's XLT	Munitions Debris	Other MD	1	Other MD. Debris too large to clear. Left in place with Corps approval		0	14863212.94	1756511.47	18	5/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-26-2	14863212.94	1756511.47	Channel 2	584.09	White's XLT	Munitions Debris	Rocket	2	3.5" HEAT Cones	1.5	0	14863212.94	1756511.47	12	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-26-3	14863212.94	1756511.47	Channel 2	584.09	White's XLT	Munitions Debris	Other MD	1	Ballistic Windshield	0.1	0	14863212.94	1756511.47	18	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-26-4	14863212.94	1756511.47	Channel 2	584.09	White's XLT	Munitions Debris	Primer	1	Artillery Shell Primers, expended	1.5	0	14863212.94	1756511.47	15	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-26-5	14863212.94	1756511.47	Channel 2	584.09	White's XLT	Munitions Debris	Projectile	1	37mm Projectiles, empty	3	0	14863212.94	1756511.47	15	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-25-6	14863216.42	1756514.43	Channel 2	435.31	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863216.42	1756514.43	18	5/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	FOA-T54-1119	14874874.4	1770536.758	Mag & Dig	Analog	White's XLT	Munitions Debris	Rocket	1	3.5" Rocket ballistic cone		NA	-	-	15	5/3/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-26-6	14863212.94	1756511.47	Channel 2	584.09	White's XLT	Munitions Debris	Other MD	1	Booster Cup	0.1	0	14863212.94	1756511.47	18	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-26-7	14863212.94	1756511.47	Channel 2	584.09	White's XLT	Munitions Debris	Projectile	1	40mm, Base	0.1	0	14863212.94	1756511.47	15	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-26-8	14863212.94	1756511.47	Channel 2	584.09	White's XLT	Munitions Debris	Mortar	2	60mm, Tailboom	0.5	0	14863212.94	1756511.47	15	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-26-9	14863212.94	1756511.47	Channel 2	584.09	White's XLT	Munitions Debris	Fuze	1	Bomb fuze adapter	10	0	14863212.94	1756511.47	15	5/11/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-27-1	14863181.9	1756531.37	Channel 2	9138.60	White's XLT	Munitions Debris	Rocket	2	3.5" rocket motor, expended	10	0	14863181.9	1756531.37	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T54-1120	14874888.91	1770525.635	Mag & Dig	Analog	White's XLT	Munitions Debris	Rocket	1	3.5" Rocket motor, expended	20	NA	-	-	33	5/3/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-27-10	14863181.9	1756531.37	Channel 2	9138.60	White's XLT	Munitions Debris	Fuze	1	M123 Bomb Fuze, expended	5	0	14863181.9	1756531.37	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-27-11	14863181.9	1756531.37	Channel 2	9138.60	White's XLT	Munitions Debris	Rocket	1	2.75" Rocket fin	0.1	0	14863181.9	1756531.37	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-27-12	14863181.9	1756531.37	Channel 2	9138.60	White's XLT	Munitions Debris	Fuze	1	Bomb fuze adapter	10	0	14863181.9	1756531.37	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-27-13	14863181.9	1756531.37	Channel 2	9138.60	White's XLT	Munitions Debris	Rocket	1	Rocket Venturi	12	0	14863181.9	1756531.37	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-27-14	14863181.9	1756531.37	Channel 2	9138.60	White's XLT	Munitions Debris	Rocket	1	Rocket Venturi	8	0	14863181.9	1756531.37	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-27-15	14863181.9	1756531.37	Channel 2	9138.60	White's XLT	Munitions Debris	Fuze	1	M51 Fuze booster, empty	0.5	0	14863181.9	1756531.37	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-27-16	14863181.9	1756531.37	Channel 2	9138.60	White's XLT	Munitions Debris	Other MD	3	Unknown MD	1	0	14863181.9	1756531.37	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-26-15	14863212.94	1756511.47	Channel 2	584.09	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863212.94	1756511.47	18	5/11/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-27-19	14863181.9	1756531.37	Channel 2	9138.60	White's XLT	Munitions Debris	Projectile	1	40mm, Body, empty	1	0	14863181.9	1756531.37	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-27-2	14863181.9	1756531.37	Channel 2	9138.60	White's XLT	Munitions Debris	Primer	2	Artillery Primers, expended	1	0	14863181.9	1756531.37	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-27-20	14863181.9	1756531.37	Channel 2	9138.60	White's XLT	Munitions Debris	Other MD	1	Other MD. Debris too large to clear. Left in place with Corps approval		0	14863181.9	1756531.37	18	5/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-27-3	14863181.9	1756531.37	Channel 2	9138.60	White's XLT	Munitions Debris	Projectile	7	37mm, Projectiles, empty	3	0	14863181.9	1756531.37	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-27-4	14863181.9	1756531.37	Channel 2	9138.60	White's XLT	Munitions Debris	Other MD	1	Unknown MD	0.1	0	14863181.9	1756531.37	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-27-5	14863181.9	1756531.37	Channel 2	9138.60	White's XLT	Munitions Debris	Submunition	1	M42 Submunition, empty	0.1	0	14863181.9	1756531.37	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-27-6	14863181.9	1756531.37	Channel 2	9138.60	White's XLT	Munitions Debris	Mortar	1	60mm, Tailboom Assembly	1	0	14863181.9	1756531.37	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-27-7	14863181.9	1756531.37	Channel 2	9138.60	White's XLT	Munitions Debris	Rocket	1	2.75" Rocket Venturi	3	0	14863181.9	1756531.37	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-27-8	14863181.9	1756531.37	Channel 2	9138.60	White's XLT	Munitions Debris	Projectile	1	40mm, empty	0.5	0	14863181.9	1756531.37	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-27-9	14863181.9	1756531.37	Channel 2	9138.60	White's XLT	Munitions Debris	Casing	1	40mm Casing	0.1	0	14863181.9	1756531.37	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-28-1	14863187.9	1756536.71	Channel 2	2731.00	White's XLT	Munitions Debris	Rocket	5	3.5" Bazooka Motor, expended	3	0	14863187.9	1756536.71	15	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-28-10	14863187.9	1756536.71	Channel 2	2731.00	White's XLT	Munitions Debris	Other MD	2	Detonators, expended	0.1	0	14863187.9	1756536.71	15	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-28-13	14863187.9	1756536.71	Channel 2	2731.00	White's XLT	Munitions Debris	Other MD	1	Other MD. Debris too large to clear. Left in place with Corps approval		0	14863187.9	1756536.71	15	5/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-28-2	14863187.9	1756536.71	Channel 2	2731.00	White's XLT	Munitions Debris	Projectile	3	37mm, Projectiles, empty	3	0	14863187.9	1756536.71	15	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-28-3	14863187.9	1756536.71	Channel 2	2731.00	White's XLT	Munitions Debris	Fuze	1	Practice Fuze	4	0	14863187.9	1756536.71	15	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-28-4	14863187.9	1756536.71	Channel 2	2731.00	White's XLT	Munitions Debris	Submunition	1	M42 Submunition, empty	0.5	0	14863187.9	1756536.71	15	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-27-17	14863181.9	1756531.37	Channel 2	9138.60	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	10	0	14863181.9	1756531.37	18	5/12/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-27-18	14863181.9	1756531.37	Channel 2	9138.60	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863181.9	1756531.37	18	5/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-28-5	14863187.9	1756536.71	Channel 2	2731.00	White's XLT	Munitions Debris	Casing	2	37mm Casing	5	0	14863187.9	1756536.71	15	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-28-6	14863187.9	1756536.71	Channel 2	2731.00	White's XLT	Munitions Debris	Tube	3	Flash Tube	3	0	14863187.9	1756536.71	15	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-28-7	14863187.9	1756536.71	Channel 2	2731.00	White's XLT	Munitions Debris	Other MD	1	Unknown MD	2	0	14863187.9	1756536.71	15	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	2024-99-1	14863716.51	1755224.59	Channel 2	27.61	White's XLT	Munitions Debris	Flare	1	Flare, Expended	0.1	0	14863716.51	1755224.59	0	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-28-8	14863187.9	1756536.71	Channel 2	2731.00	White's XLT	Munitions Debris	Rocket	1	Rocket Venturi	8	0	14863187.9	1756536.71	15	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T54-1121	14874874.45	1770545.041	Mag & Dig	Analog	White's XLT	Munitions Debris	Rocket	1	3.5" Rocket ballistic cone	1	NA	-	-	12	5/3/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-28-9	14863187.9	1756536.71	Channel 2	2731.00	White's XLT	Munitions Debris	Fuze	1	M51 Booster, empty	0.5	0	14863187.9	1756536.71	15	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-31-1	14863196.78	1756543.87	Channel 2	2285.61	White's XLT	Munitions Debris	Projectile	1	30mm, Practice	0.5	0	14863196.78	1756543.87	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-31-10	14863196.78	1756543.87	Channel 2	2285.61	White's XLT	Munitions Debris	Rocket	1	Rocket Venturi	7	0	14863196.78	1756543.87	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-31-11	14863196.78	1756543.87	Channel 2	2285.61	White's XLT	Munitions Debris	Frag	4	Fragment Balls	0.1	0	14863196.78	1756543.87	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-31-12	14863196.78	1756543.87	Channel 2	2285.61	White's XLT	Munitions Debris	Frag	1	Fragment Sleeve	0.1	0	14863196.78	1756543.87	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-31-13	14863196.78	1756543.87	Channel 2	2285.61	White's XLT	Munitions Debris	Fuze	1	Unknown Fuze, expended	1	0	14863196.78	1756543.87	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-28-11	14863187.9	1756536.71	Channel 2	2731.00	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863187.9	1756536.71	15	5/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-28-12	14863187.9	1756536.71	Channel 2	2731.00	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	3	0	14863187.9	1756536.71	15	5/12/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-31-14	14863196.78	1756543.87	Channel 2	2285.61	White's XLT	Munitions Debris	Other MD	2	Miscellaneous MD	0.5	0	14863196.78	1756543.87	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-29	14863191.62	1756540.27	Channel 2	12650.72	White's XLT	Cultural Debris	Metal Scrap	1	large metal container. Debris too large to clear.		0	14863191.62	1756540.27	0	5/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-30	14863192.19	1756540.71	Channel 2	12659.64	White's XLT	Cultural Debris	Metal Scrap	1	large metal container. Debris too large to clear.		0	14863192.19	1756540.71	0	5/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-31-15	14863196.78	1756543.87	Channel 2	2285.61	White's XLT	Munitions Debris	Fuze	1	M51 Booster, empty	1.5	0	14863196.78	1756543.87	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-31-16	14863196.78	1756543.87	Channel 2	2285.61	White's XLT	Munitions Debris	Submunition	1	M42 Submunition, empty	1	0	14863196.78	1756543.87	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-31-17	14863196.78	1756543.87	Channel 2	2285.61	White's XLT	Munitions Debris	Fuze	1	M123 Fuze, expended	3	0	14863196.78	1756543.87	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-31-18	14863196.78	1756543.87	Channel 2	2285.61	White's XLT	Munitions Debris	Rocket	1	3.5" Rocket Warhead, empty	5	0	14863196.78	1756543.87	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-31-19	14863196.78	1756543.87	Channel 2	2285.61	White's XLT	Munitions Debris	Casing	1	37mm Casing	5	0	14863196.78	1756543.87	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T54-1123	14874860	1770567.211	Mag & Dig	Analog	White's XLT	Munitions Debris	Projectile	1	75mm, empty	10	NA	-	-	8	5/3/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-31-2	14863196.78	1756543.87	Channel 2	2285.61	White's XLT	Munitions Debris	Rocket	1	2.36" Rocket motors, expended	5	0	14863196.78	1756543.87	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-31-20	14863196.78	1756543.87	Channel 2	2285.61	White's XLT	Munitions Debris	Fuze	1	Base fuze adapter	1	0	14863196.78	1756543.87	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-31-22	14863196.78	1756543.87	Channel 2	2285.61	White's XLT	Munitions Debris	Other MD	1	Other MD. Debris too large to clear. Left in place with Corps approval		0	14863196.78	1756543.87	18	5/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-31-3	14863196.78	1756543.87	Channel 2	2285.61	White's XLT	Munitions Debris	Projectile	4	37mm, Projectile, empty	3	0	14863196.78	1756543.87	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-31-4	14863196.78	1756543.87	Channel 2	2285.61	White's XLT	Munitions Debris	Rocket	2	3.5" Rocket motor, expended	5	0	14863196.78	1756543.87	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-31-5	14863196.78	1756543.87	Channel 2	2285.61	White's XLT	Munitions Debris	Tube	18	Flash Tubes	4	0	14863196.78	1756543.87	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-31-6	14863196.78	1756543.87	Channel 2	2285.61	White's XLT	Munitions Debris	Projectile	2	40mm, Projectile, empty	0.5	0	14863196.78	1756543.87	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-31-7	14863196.78	1756543.87	Channel 2	2285.61	White's XLT	Munitions Debris	Fuze	3	Base fuze adapter	0.5	0	14863196.78	1756543.87	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T54-1124	14874889.06	1770553.246	Mag & Dig	Analog	White's XLT	UXO	Rocket	1	M35/M36 3.5" rocket Fuze Well	5	NA	-	-	18	5/3/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T62-1003	14875814.79	1768629.296	Mag & Dig	Analog	White's XLT	Munitions Debris	Catridge	1	Cartridge	2	NA	-	-	3	5/2/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Former Operational Area	FOA-T71-1003	14878209.02	1768196.932	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	2	NA	-	-	1	5/10/2012	Jason Leseiko	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-31-8	14863196.78	1756543.87	Channel 2	2285.61	White's XLT	Munitions Debris	Fuze	2	M51 Fuze, expended	1	0	14863196.78	1756543.87	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-31-9	14863196.78	1756543.87	Channel 2	2285.61	White's XLT	Munitions Debris	Flare	1	Flare, expended	5	0	14863196.78	1756543.87	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-32-1	14863198.39	1756546.1	Channel 2	1444.02	White's XLT	Munitions Debris	Submunition	1	M42 Submunition, empty	1	0	14863198.39	1756546.1	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-31-21	14863196.78	1756543.87	Channel 2	2285.61	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	15	0	14863196.78	1756543.87	18	5/12/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-32-10	14863198.39	1756546.1	Channel 2	1444.02	White's XLT	Munitions Debris	Fuze	1	Base fuze adapter	1	0	14863198.39	1756546.1	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-31-23	14863196.78	1756543.87	Channel 2	2285.61	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863196.78	1756543.87	18	5/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-32-11	14863198.39	1756546.1	Channel 2	1444.02	White's XLT	Munitions Debris	Other MD	10	Miscellaneous Detonators, expended	0.1	0	14863198.39	1756546.1	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-32-13	14863198.39	1756546.1	Channel 2	1444.02	White's XLT	Munitions Debris	Other MD	1	Other MD. Debris too large to clear. Left in place with Corps approval		0	14863198.39	1756546.1	18	5/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	FSL-81	14862230.98	1755979.27	Channel 2	134.42	White's XLT	Munitions Debris	Rocket	1	Rocket Fin	0.1	0	14862230.98	1755979.27	6	5/5/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-32-2	14863198.39	1756546.1	Channel 2	1444.02	White's XLT	Munitions Debris	Fuze	1	Fuze, expended	1	0	14863198.39	1756546.1	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-32-3	14863198.39	1756546.1	Channel 2	1444.02	White's XLT	Munitions Debris	Projectile	2	37mm Projectile, empty	3	0	14863198.39	1756546.1	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-32-4	14863198.39	1756546.1	Channel 2	1444.02	White's XLT	Munitions Debris	Mortar	2	Tail Boom Assembly	1	0	14863198.39	1756546.1	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-32-5	14863198.39	1756546.1	Channel 2	1444.02	White's XLT	Munitions Debris	Projectile	1	40mm Projectile, empty	1	0	14863198.39	1756546.1	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-32-6	14863198.39	1756546.1	Channel 2	1444.02	White's XLT	Munitions Debris	Submunition	1	M42 Submunition, empty	1	0	14863198.39	1756546.1	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-32-7	14863198.39	1756546.1	Channel 2	1444.02	White's XLT	Munitions Debris	Tube	14	Flash Tubes	5	0	14863198.39	1756546.1	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	2024-53	14863790.23	1755313.06	Channel 2	9.72	White's XLT	Munitions Debris	Flare	2	Flare, Expended	0.1	0	14863790.23	1755313.06	6	5/16/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-32-8	14863198.39	1756546.1	Channel 2	1444.02	White's XLT	Munitions Debris	Rocket	1	2.36" Rocket warhead, empty	0.5	0	14863198.39	1756546.1	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-32-12	14863198.39	1756546.1	Channel 2	1444.02	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863198.39	1756546.1	18	5/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-32-9	14863198.39	1756546.1	Channel 2	1444.02	White's XLT	Munitions Debris	Primer	1	37mm Casing Primer	2	0	14863198.39	1756546.1	18	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-33	14863200.9	1756549.02	Channel 2	1817.02	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863200.9	1756549.02	12	5/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-34	14863202.9	1756550.14	Channel 2	1825.92	White's XLT	Cultural Debris	Aluminum	1	Scrap Aluminum	0.1	0	14863202.9	1756550.14	6	5/12/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-35	14863210.2	1756554.13	Channel 2	564.50	White's XLT	Munitions Debris	Projectile	1	37mm, Projectile, empty	3	0	14863210.2	1756554.13	6	5/12/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-37	14863228.78	1756576.54	Channel 2	24.02	White's XLT	Cultural Debris	Metal Scrap	1	Metal Pin Flag	0.01	0	14863228.78	1756576.54	0	5/12/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-38	14863229.73	1756578.07	Channel 2	36.82	White's XLT	No Contact		1	No Contact						5/12/2012	Rick Shellenbarger	NA
Former Operational Area	WBA-39	14863232.51	1756581	Channel 2	24.76	White's XLT	Cultural Debris	Nail	1	Nail	0.01	0	14863232.51	1756581	12	5/12/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-40-1	14863235.63	1756583.69	Channel 2	266.76	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863235.63	1756583.69	24	5/12/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-62-1	14863353.23	1756708.46	Channel 2	337.05	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14863353.23	1756708.46	8	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-62-2	14863353.23	1756708.46	Channel 2	337.05	White's XLT	Cultural Debris	Metal Scrap	1	metal bar	4	0	14863353.23	1756708.46	8	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-61-1	14863347.62	1756694.16	Channel 2	383.99	White's XLT	Cultural Debris	Aluminum	1	Aluminum	0.01	0	14863347.62	1756694.16	12	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-61-2	14863347.62	1756694.16	Channel 2	383.99	White's XLT	Cultural Debris	Aluminum	1	Aluminum. Debris too large to clear.		0	14863347.62	1756694.16	8	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-61-3	14863347.62	1756694.16	Channel 2	383.99	White's XLT	Cultural Debris	Concrete	1	Concrete. Debris too large to clear.		0	14863347.62	1756694.16	8	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-60-1	14863345.7	1756690.26	Channel 2	257.08	White's XLT	Cultural Debris	Aluminum	1	Aluminum. Debris too large to clear.		0	14863345.7	1756690.26	8	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-60-2	14863345.7	1756690.26	Channel 2	257.08	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14863345.7	1756690.26	8	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-59-1	14863345.04	1756687.41	Channel 2	362.23	White's XLT	Cultural Debris	Concrete	1	Concrete. Debris too large to clear.		0	14863345.04	1756687.41	12	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-58	14863341.23	1756682.12	Channel 2	435.29	White's XLT	Cultural Debris	Concrete	1	Concrete. Debris too large to clear.		0	14863341.23	1756682.12	8	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-59-2	14863345.04	1756687.41	Channel 2	362.23	White's XLT	Cultural Debris	Rebar	1	Rebar. Debris too large to clear.		0	14863345.04	1756687.41	0	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-57	14863338.02	1756678.93	Channel 2	459.82	White's XLT	Cultural Debris	Pipe	1	steel pipe. Debris too large to clear.		0	14863338.02	1756678.93	0	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-56	14863334.28	1756673.97	Channel 2	1964.10	White's XLT	Cultural Debris	Metal Scrap	1	metal beam. Debris too large to clear.		0	14863334.28	1756673.97	0	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-54-1	14863309.41	1756665.58	Channel 2	526.02	White's XLT	Cultural Debris	Metal Scrap	1	hook	0.1	0	14863309.41	1756665.58	6	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-55	14863320.67	1756668.59	Channel 2	682.48	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14863320.67	1756668.59	4	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-54-2	14863309.41	1756665.58	Channel 2	526.02	White's XLT	Cultural Debris	Metal Scrap	1	rail track. Debris too large to clear.		0	14863309.41	1756665.58	2	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-53-1	14863308.23	1756665.34	Channel 2	678.37	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863308.23	1756665.34	18	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-52-1	14863303.94	1756662.01	Channel 2	287.36	White's XLT	Cultural Debris	Wire	1	wire mesh	0.1	0	14863303.94	1756662.01	0	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-53-2	14863308.23	1756665.34	Channel 2	678.37	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	6	0	14863308.23	1756665.34	6	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-52-2	14863303.94	1756662.01	Channel 2	287.36	White's XLT	Cultural Debris	Rebar	1	Rebar	2	0	14863303.94	1756662.01	15	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-51	14863301.76	1756661.11	Channel 2	508.17	White's XLT	Cultural Debris	Rebar	2	Rebar	3	0	14863301.76	1756661.11	6	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-52-3	14863303.94	1756662.01	Channel 2	287.36	White's XLT	Cultural Debris	Concrete	1	Concrete. Debris too large to clear.		0	14863303.94	1756662.01	0	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-50	14863292.47	1756654.05	Channel 2	358.41	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14863292.47	1756654.05	4	5/13/2012	Rick Shellenbarger	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	WBA-49	14863288.91	1756651.41	Channel 2	177.83	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	0.1	0	14863288.91	1756651.41	6	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-48-1	14863283.87	1756641.67	Channel 2	1997.11	White's XLT	Cultural Debris	Pipe	1	6in pipe	2	0	14863283.87	1756641.67	6	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-48-2	14863283.87	1756641.67	Channel 2	1997.11	White's XLT	Cultural Debris	Metal Scrap	2	black rubbery metallic sheets. too much to clear.		0	14863283.87	1756641.67	6	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-47	14863283.17	1756638.99	Channel 2	1732.65	White's XLT	Cultural Debris	Metal Scrap	2	black rubbery sheets. too much to clear.		0	14863283.17	1756638.99	6	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-46-1	14863279.85	1756632.45	Channel 2	5949.98	White's XLT	Cultural Debris	Metal Scrap	1	bucket	7.5	0	14863279.85	1756632.45	8	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-46-2	14863279.85	1756632.45	Channel 2	5949.98	White's XLT	Cultural Debris	Metal Scrap	1	black rubbery sheets too much to clear.		0	14863279.85	1756632.45	6	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-46-3	14863279.85	1756632.45	Channel 2	5949.98	White's XLT	Cultural Debris	Metal Scrap	1	rust flakes. too much to clear.		0	14863279.85	1756632.45	8	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-45-1	14863275.8	1756628.39	Channel 2	2212.31	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		0	14863275.8	1756628.39	12	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-45-2	14863275.8	1756628.39	Channel 2	2212.31	White's XLT	Cultural Debris	Metal Scrap	1	black rubbery sheets. too much to clear.		0	14863275.8	1756628.39	6	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-44-1	14863273.89	1756624.94	Channel 2	1951.48	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	3	0	14863273.89	1756624.94	2	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-44-2	14863273.89	1756624.94	Channel 2	1951.48	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863273.89	1756624.94	6	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-44-3	14863273.89	1756624.94	Channel 2	1951.48	White's XLT	Small Arms	Shotgun Primer	1	Shotgun Primer	0.01	0	14863273.89	1756624.94	0	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-42	14863261.05	1756609.73	Channel 2	277.09	White's XLT	Cultural Debris	Metal Scrap	1	copper tape. too much to clear.		0	14863261.05	1756609.73	6	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-43	14863266.77	1756620.04	Channel 2	1558.18	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863266.77	1756620.04	6	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-36-1	14863217.77	1756563.5	Channel 2	429.13	White's XLT	Munitions Debris	Rocket	1	3.5" Bazooka rocket motor, expended	5	0	14863217.77	1756563.5	8	5/13/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-36-2	14863217.77	1756563.5	Channel 2	429.13	White's XLT	Munitions Debris	Fuze	2	Internal Fuze Components	0.1	0	14863217.77	1756563.5	8	5/13/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-36-3	14863217.77	1756563.5	Channel 2	429.13	White's XLT	Munitions Debris	Other MD	1	Other MD. Debris too large to clear. Left in place with Corps approval		0	14863217.77	1756563.5	12	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-40-2	14863235.63	1756583.69	Channel 2	266.76	White's XLT	Munitions Debris	Fuze	1	Internal Fuze Components	1	0	14863235.63	1756583.69	8	5/13/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-41	14863254.13	1756601.66	Channel 2	59.76	White's XLT	Munitions Debris	Tube	1	Flash Tube	2	0	14863254.13	1756601.66	6	5/13/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-92	14863199.38	1756586.65	Channel 2	708.01	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863199.38	1756586.65	18	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-91	14863203.62	1756592.29	Channel 2	314.74	White's XLT	Cultural Debris	Concrete	1	Concrete. Debris too large to clear.		0	14863203.62	1756592.29	0	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-90	14863207.76	1756601.76	Channel 2	670.16	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14863207.76	1756601.76	6	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-89-1	14863217.3	1756618.06	Channel 2	1658.45	White's XLT	Small Arms	Blank Ammunition	1	Blank Ammunition	0.01	0	14863217.3	1756618.06	8	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-89-2	14863217.3	1756618.06	Channel 2	1658.45	White's XLT	Munitions Debris	Other MD	1	Other MD. Debris too large to clear. Left in place with Corps approval		0	14863217.3	1756618.06	8	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-89-3	14863217.3	1756618.06	Channel 2	1658.45	White's XLT	Munitions Debris	Fuze	5	internal fuze components	0.1	0	14863217.3	1756618.06	8	5/13/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-88	14863223.45	1756624.81	Channel 2	224.10	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	2	0	14863223.45	1756624.81	8	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-87	14863230.17	1756632.96	Channel 2	609.47	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863230.17	1756632.96	6	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-86-1	14863235.8	1756642.73	Channel 2	158.57	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14863235.8	1756642.73	4	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-86-2	14863235.8	1756642.73	Channel 2	158.57	White's XLT	Cultural Debris	Wire	1	Wire	0.01	0	14863235.8	1756642.73	2	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-85	14863241.21	1756647.95	Channel 2	1336.47	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14863241.21	1756647.95	6	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-84	14863248.82	1756651.93	Channel 2	78.20	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14863248.82	1756651.93	8	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-83	14863260.23	1756661.54	Channel 2	411.54	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863260.23	1756661.54	6	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-81	14863265.06	1756666.01	Channel 2	478.04	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863265.06	1756666.01	4	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-82	14863262.13	1756663.21	Channel 2	311.87	White's XLT	Cultural Debris	Bolt	1	Bolt	2	0	14863262.13	1756663.21	8	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-80	14863275.1	1756673.6	Channel 2	980.64	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863275.1	1756673.6	18	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-79	14863276.73	1756677.61	Channel 2	1623.71	White's XLT	Cultural Debris	Metal Scrap	1	banding	2	0	14863276.73	1756677.61	18	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-78	14863277.67	1756680.42	Channel 2	860.33	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863277.67	1756680.42	6	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-76	14863284.13	1756687.96	Channel 2	1396.90	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863284.13	1756687.96	12	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-77	14863281.43	1756685.12	Channel 2	3116.06	White's XLT	Cultural Debris	Pipe	2	Pipe	3	0	14863281.43	1756685.12	8	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-75-1	14863289.67	1756691.56	Channel 2	559.28	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	6	0	14863289.67	1756691.56	0	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-75-2	14863289.67	1756691.56	Channel 2	559.28	White's XLT	Cultural Debris	Metal Scrap	1	rust flakes. too many to clear.		0	14863289.67	1756691.56	4	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-74	14863291.76	1756692.34	Channel 2	429.29	White's XLT	Cultural Debris	Concrete	1	Concrete. Debris too large to clear.		0	14863291.76	1756692.34	1	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-73	14863301.32	1756701.15	Channel 2	508.48	White's XLT	Small Arms	Shotgun Primer	1	Shotgun Primer	0.01	0	14863301.32	1756701.15	3	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-72	14863309.52	1756729.86	Channel 2	200.23	White's XLT	Cultural Debris	Fencing/Fence Post	1	fence post. Debris too large to clear.		0	14863309.52	1756729.86	4	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-71	14863310.33	1756731.1	Channel 2	222.86	White's XLT	Cultural Debris	Nail	1	Nail	0.01	0	14863310.33	1756731.1	4	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-70-1	14863314.42	1756735.7	Channel 2	675.67	White's XLT	Cultural Debris	Metal Scrap	1	pin flag.		0	14863314.42	1756735.7	1	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-70-2	14863314.42	1756735.7	Channel 2	675.67	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	4	0	14863314.42	1756735.7	8	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-68	14863320.45	1756740.54	Channel 2	1493.87	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	5	0	14863320.45	1756740.54	4	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-69	14863316.61	1756737.25	Channel 2	932.82	White's XLT	Cultural Debris	Aluminum	1	Aluminum	0.1	0	14863316.61	1756737.25	6	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-67-1	14863322.23	1756741.87	Channel 2	1443.17	White's XLT	Cultural Debris	Aluminum	1	Aluminum	1	0	14863322.23	1756741.87	6	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-67-2	14863322.23	1756741.87	Channel 2	1443.17	White's XLT	Cultural Debris	Metal Scrap	1	black rubber metallic sheets. too much to clear.		0	14863322.23	1756741.87	6	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-67-3	14863322.23	1756741.87	Channel 2	1443.17	White's XLT	Cultural Debris	Nail	1	Nail	0.01	0	14863322.23	1756741.87	6	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-65-1	14863332.43	1756747.45	Channel 2	587.70	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14863332.43	1756747.45	6	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-66	14863324.39	1756743.17	Channel 2	1313.90	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	5	0	14863324.39	1756743.17	6	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-65-2	14863332.43	1756747.45	Channel 2	587.70	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863332.43	1756747.45	6	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-63	14863340.03	1756750.69	Channel 2	237.15	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	12	0	14863340.03	1756750.69	6	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-64	14863337.84	1756749.6	Channel 2	145.11	White's XLT	Cultural Debris	Metal Scrap	2	pin flag/ metal scrap	0.01	0	14863337.84	1756749.6	4	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-132-1	14863324.7	1756781.19	Channel 2	3299.89	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14863324.7	1756781.19	12	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-133	14863348.79	1756758.475	Channel 2	638.73	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863348.79	1756758.475	0	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-132-2	14863324.7	1756781.19	Channel 2	3299.89	White's XLT	Cultural Debris	Concrete	1	Concrete. Debris too large to clear.		0	14863324.7	1756781.19	12	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-131	14863323.36	1756778.55	Channel 2	2700.10	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14863323.36	1756778.55	6	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-130-1	14863318.34	1756774.07	Channel 2	1524.81	White's XLT	Cultural Debris	Wire	1	Wire. Debris too large to clear.		0	14863318.34	1756774.07	6	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-130-2	14863318.34	1756774.07	Channel 2	1524.81	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863318.34	1756774.07	6	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-129	14863316.9	1756773.08	Channel 2	1595.31	White's XLT	Cultural Debris	Aluminum	1	Aluminum		0	14863316.9	1756773.08	8	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-128-1	14863309.68	1756765.72	Channel 2	140.66	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	3	0	14863309.68	1756765.72	6	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-127-1	14863302.79	1756756.13	Channel 2	333.23	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	5	0	14863302.79	1756756.13	6	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-128-2	14863309.68	1756765.72	Channel 2	140.66	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863309.68	1756765.72	6	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-127-2	14863302.79	1756756.13	Channel 2	333.23	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863302.79	1756756.13	6	5/13/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-126-1	14863298.83	1756750.34	Channel 2	649.86	White's XLT	Cultural Debris	Foil	1	Foil	0.01	0	14863298.83	1756750.34	8	5/13/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-126-2	14863298.83	1756750.34	Channel 2	649.86	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863298.83	1756750.34	6	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-125	14863291.79	1756741.24	Channel 2	507.91	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	3	0	14863291.79	1756741.24	4	5/17/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-124	14863289.7	1756736.62	Channel 2	223.81	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14863289.7	1756736.62	6	5/17/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-123	14863286.37	1756731.59	Channel 2	189.26	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	3	0	14863286.37	1756731.59	6	5/17/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-122	14863284.07	1756728.94	Channel 2	301.44	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14863284.07	1756728.94	3	5/17/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-121	14863279.71	1756724.29	Channel 2	46.14	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14863279.71	1756724.29	4	5/17/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-120-1	14863265.72	1756718.31	Channel 2	283.31	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	5	0	14863265.72	1756718.31	6	5/17/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-120-2	14863265.72	1756718.31	Channel 2	283.31	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863265.72	1756718.31	6	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-119-1	14863262.54	1756717.53	Channel 2	232.44	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863262.54	1756717.53	4	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-119-2	14863262.54	1756717.53	Channel 2	232.44	White's XLT	Geology	Hot Rock	1	Hot Rock. Debris too large to clear.		0	14863262.54	1756717.53	6	5/17/2012	Rick Shellenbarger	Left in place

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Former Operational Area	WBA-118-1	14863258.39	1756715.81	Channel 2	307.11	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14863258.39	1756715.81	6	5/17/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-117	14863257.14	1756714.42	Channel 2	350.89	White's XLT	Cultural Debris	Pipe	1	Shared with target 118		0	14863257.14	1756714.42	6	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-118-2	14863258.39	1756715.81	Channel 2	307.11	White's XLT	Cultural Debris	Pipe	1	Shared with target 117		0	14863258.39	1756715.81	6	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-116	14863252.58	1756712.35	Channel 2	280.99	White's XLT	Munitions Debris	Pipe	1	Fuze sheared off.		0	14863252.58	1756712.35	4	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-115	14863250.29	1756712.02	Channel 2	235.40	White's XLT	Cultural Debris	Wire	1	wire pit. too much to clear.		0	14863250.29	1756712.02	6	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-114	14863245.76	1756709.71	Channel 2	307.50	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14863245.76	1756709.71	6	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-112	14863243.27	1756708.43	Channel 2	344.48	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14863243.27	1756708.43	4	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-113	14863244.45	1756708.88	Channel 2	311.74	White's XLT	Cultural Debris	Concrete	1	Concrete. Debris too large to clear.		0	14863244.45	1756708.88	6	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-111	14863238.25	1756703.8	Channel 2	470.27	White's XLT	Cultural Debris	Concrete	1	Concrete. Debris too large to clear.		0	14863238.25	1756703.8	2	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-110	14863235.99	1756698.94	Channel 2	185.94	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14863235.99	1756698.94	6	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-109	14863235.49	1756696.78	Channel 2	291.88	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14863235.49	1756696.78	6	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-108	14863226.54	1756677.33	Channel 2	847.68	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863226.54	1756677.33	6	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-107	14863222.65	1756666.62	Channel 2	34.98	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14863222.65	1756666.62	6	5/17/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-105	14863216.52	1756662.6	Channel 2	147.13	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14863216.52	1756662.6	6	5/17/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-106	14863221.51	1756665.55	Channel 2	61.79	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14863221.51	1756665.55	8	5/17/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-104-1	14863212.29	1756661.18	Channel 2	82.43	White's XLT	Cultural Debris	Metal Scrap	1	railroad spike	0.1	0	14863212.29	1756661.18	4	5/17/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-104-2	14863212.29	1756661.18	Channel 2	82.43	White's XLT	Cultural Debris	Wire	1	wire pit. too much to clear.		0	14863212.29	1756661.18	6	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-103	14863205.41	1756657.38	Channel 2	46.36	White's XLT	Cultural Debris	Nail	1	Nail	0.01	0	14863205.41	1756657.38	8	5/17/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-102	14863203.45	1756649.56	Channel 2	27.24	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit. Debris too large to clear.		0	14863203.45	1756649.56	6	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-101	14863204.16	1756647.42	Channel 2	38.62	White's XLT	Cultural Debris	Concrete	1	Concrete. Debris too large to clear.		0	14863204.16	1756647.42	6	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-100-1	14863204.55	1756632.4	Channel 2	169.89	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14863204.55	1756632.4	6	5/17/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-100-2	14863204.55	1756632.4	Channel 2	169.89	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14863204.55	1756632.4	0	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-99	14863202.5	1756625.76	Channel 2	395.79	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14863202.5	1756625.76	1	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-98	14863200.05	1756622.54	Channel 2	77.89	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14863200.05	1756622.54	8	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-97	14863182.62	1756604.58	Channel 2	547.44	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	1	0	14863182.62	1756604.58	6	5/17/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-96	14863171.5	1756596.23	Channel 2	1288.64	White's XLT	Small Arms	Shotgun Primer	2	Shotgun Primer	0.1	0	14863171.5	1756596.23	1	5/17/2012	Rick Shellenbarger	Transferred to PTA
Former Operational Area	WBA-95-1	14863170.8	1756559.7	Channel 2	2615.27	White's XLT	Cultural Debris	Metal Scrap	1	Metal scrap. Debris too large to clear.		0	14863170.8	1756559.7	12	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-95-2	14863170.8	1756559.7	Channel 2	2615.27	White's XLT	Cultural Debris	Pipe	1	Pipe. Debris too large to clear.		0	14863170.8	1756559.7	6	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-93-1	14863177.16	1756568.85	Channel 2	827.39	White's XLT	Munitions Debris	Other MD	1	Other MD. Debris too large to clear. Left in place with Corps approval		0	14863177.16	1756568.85	24	5/17/2012	Rick Shellenbarger	Left in place
Former Operational Area	WBA-93-2	14863177.16	1756568.85	Channel 2	827.39	White's XLT	Munitions Debris	Submunition	1	M42 Submunition, empty	0.5	0	14863177.16	1756568.85	21	5/17/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Former Operational Area	WBA-94	14863173.17	1756562.32	Channel 2	2747.32	White's XLT	Munitions Debris	Other MD	1	Other MD. Debris too large to clear. Left in place with Corps approval		0	14863173.17	1756562.32	24	5/17/2012	Rick Shellenbarger	Left in place

Project Name:	Picatinny Arsenal	Geophysical Contractor:	WESTON
Project Location:	Picatinny, NJ	Project Geophysicist:	Ryan Steigerwalt
Date:	7/11/2012	Site Geophysicist:	Paul Novak
Coordinate System:	UTM 18N		
MRS:	Green Pond Brook	USACE Geophysicist:	Megan Garrett

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantitiy	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Green Pond Brook	Green Pond Brook-1-1	14871333.49	1761583.373	Channel 2	20.64	White's XLT	Cultural Debris	Metal Scrap	1	Trash Cans and Trash Pit		0	14871333.49	1761583.373	6	4/15/2012	Eric Kidder	Left in place
Green Pond Brook	Green Pond Brook-1-2	14871333.49	1761583.373	Channel 2	20.64	White's XLT	Cultural Debris	Metal Scrap	4	Trash Cans and Trash Pit		0	14871333.49	1761583.373	6	4/15/2012	Eric Kidder	Left in place
Green Pond Brook	Green Pond Brook-10	14871123.5	1761468.071	Channel 2	13.75	White's XLT	Cultural Debris	Metal Scrap	1	Reinforced Concrete and Metal Scrap		0	14871123.5	1761468.071	6	4/15/2012	Eric Kidder	Left in place
Green Pond Brook	Green Pond Brook-11	14871120.38	1761467.917	Channel 2	13.58	White's XLT	Cultural Debris	Metal Scrap	1	Reinforced Concrete and Metal Scrap		0	14871120.38	1761467.917	6	4/15/2012	Eric Kidder	Left in place
Green Pond Brook	Green Pond Brook-1101	14871474.03	1761706.987	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	2	4/15/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1102	14871483.25	1761730.417	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	3	4/15/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1103	14871455.88	1761719.229	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	5.5	NA	-	-	8	4/15/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1104	14871455.78	1761699.346	Mag & Dig	Analog	White's XLT	Cultural Debris	Rebar	1	Rebar		NA	-	-	2	4/15/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1105	14871388.97	1761667.648	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Aluminum	0.02	NA	-	-	6	4/15/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1106	14871351.99	1761628.619	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	4.5	NA	-	-	12	4/15/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1107	14871358.97	1761640.183	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	0.5	NA	-	-	6	4/15/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1108	14871327.07	1761598.09	Mag & Dig	Analog	White's XLT	Cultural Debris	Rebar	5	Rebar	1.5	NA	-	-	12	4/15/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1109	14871312.76	1761578.005	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Aluminum	0.02	NA	-	-	8	4/15/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1110	14871308.78	1761581.892	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	7	NA	-	-	15	4/15/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1111	14871334.66	1761585.901	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	12	4/15/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1112	14871306.53	1761570.578	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	10	NA	-	-	15	4/15/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1113	14871341.84	1761565.709	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	24	4/15/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1114	14871305.73	1761555.117	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	4	Metal Scrap		NA	-	-	15	4/15/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1115	14871291.86	1761549.111	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2.5	NA	-	-	15	4/15/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1116	14871299.53	1761554.322	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	8	Metal Scrap	4.5	NA	-	-	12	4/15/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1117	14871205.94	1761484.092	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Construction Debris		NA	-	-		4/15/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1118	14871205.94	1761484.092	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	0	4/15/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1119	14871132	1761482.809	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other		NA	-	-	6	4/15/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1120	14871122.58	1761492.521	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	4	NA	-	-	6	4/15/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1121	14871146.93	1761481.35	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	8	4/15/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1122	14871123.64	1761484.781	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other		NA	-	-	4	4/15/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1123	14871118.5	1761477.626	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	2	4/15/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1124	14871091.9	1761476.103	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	6	4/15/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1125	14871082.75	1761467.588	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.5	NA	-	-	6	4/15/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1126	14871077.61	1761457.396	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Aluminum	0.5	NA	-	-	6	4/15/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1127	14871075.83	1761465.692	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	2	NA	-	-	4	4/15/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1128	14871072.05	1761438.921	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	8	4/15/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1129	14871070.23	1761440.313	Mag & Dig	Analog	White's XLT	Munitions Debris	Other MD	6	Empty Tracer Elements	0.1	NA	-	-	30	4/15/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Green Pond Brook	Green Pond Brook-1130	14871070.23	1761440.313	Mag & Dig	Analog	White's XLT	Munitions Debris	Other MD	3	Empty Tracer Elements	0.1	NA	-	-	30	4/15/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Green Pond Brook	Green Pond Brook-1131	14871070.23	1761440.313	Mag & Dig	Analog	White's XLT	Munitions Debris	Projectile	1	35mm Projectlie, Body	1	NA	-	-	30	4/15/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Green Pond Brook	Green Pond Brook-1132	14871070.23	1761440.313	Mag & Dig	Analog	White's XLT	Munitions Debris	Fuze	2	Fuze/Booster End Caps	1	NA	-	-	30	4/15/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Green Pond Brook	Green Pond Brook-1133	14871070.23	1761440.313	Mag & Dig	Analog	White's XLT	Munitions Debris	Fuze	1	M66 Fuze Body, Inert	2.5	NA	-	-	30	4/15/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Green Pond Brook	Green Pond Brook-1134	14871070.23	1761440.313	Mag & Dig	Analog	White's XLT	Munitions Debris	Other MD	1	Fuze, Well Adaptor	2.5	NA	-	-	30	4/15/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Green Pond Brook	Green Pond Brook-1135	14871070.23	1761440.313	Mag & Dig	Analog	White's XLT	Munitions Debris	Fuze	1	Upper Portion of Unkown Fuze Body	1	NA	-	-	30	4/15/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Green Pond Brook	Green Pond Brook-1136	14871057.47	1761436.235	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	30	4/15/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1137	14871035.71	1761456.228	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	2	4/15/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1138	14871028.88	1761471.727	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	1	4/15/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1139	14871040.83	1761459.513	Mag & Dig	Analog	White's XLT	Cultural Debris	Concrete	1	Concrete		NA	-	-	0	4/15/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1140	14871032.82	1761459.277	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Aluminum	0.01	NA	-	-	4	4/15/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1141	14871033.56	1761462.59	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Aluminum	1	NA	-	-	0	4/15/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1142	14871028.83	1761462.89	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire		NA	-	-	0	4/15/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1143	14870940.53	1761431.022	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	3	4/21/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1144	14870920.46	1761423.663	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap		NA	-	-	2	4/21/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1145	14870920.46	1761423.663	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	4	4/21/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1146	14870926.34	1761433.302	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	12	4/21/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1147	14870909.9	1761424.547	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Scrap Pit	2.5	NA	-	-	4	4/21/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1148	14870829.43	1761355.63	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Staple	0.5	NA	-	-	4	4/21/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1149	14870829.43	1761355.63	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	2	4/21/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1150	14870797.75	1761354.961	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Staple	0.1	NA	-	-	2	4/21/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1151	14870702.94	1761333.621	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Staple		NA	-	-	2	4/21/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1152	14870631.74	1761297.524	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Staple		NA	-	-	2	4/21/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1153	14870319.55	1761284.45	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	4	4/21/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1154	14870299.97	1761230.418	Mag & Dig	Analog	White's XLT	Munitions Debris	Fuze	1	Unknown Fuze, Inert	1	NA	-	-	6	4/21/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Green Pond Brook	Green Pond Brook-1155	14870304.72	1761231.773	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	6	4/21/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1156	14870260.88	1761207.413	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	8	4/21/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1157	14870288.84	1761189.046	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.5	NA	-	-	12	4/21/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1158	14870295.48	1761206.411	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	4	Debris too large to clear.		NA	-	-	6	4/21/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1159	14870314.03	1761202.179	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.02	NA	-	-	4	4/21/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1160	14870297.97	1761193.974	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	0.1	NA	-	-	4	4/21/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1161	14870300.47	1761183.74	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Aluminum	1	NA	-	-	0	4/21/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1162	14870260.71	1761171.238	Mag & Dig	Analog	White's XLT	Cultural Debris	Animal Trap	1	Animal Trap	0.02	NA	-	-	1	4/21/2012	Rick Shellenbarger	Transferred to PTA Archaeologist
Green Pond Brook	Green Pond Brook-1163	14870260.71	1761171.238	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	6	NA	-	-	2	4/21/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1164	14870259.93	1761162.402	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable		NA	-	-	0	4/21/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1165	14870255.24	1761170.158	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	1	NA	-	-	2	4/21/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1166	14870253.4	1761167.405	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	4/21/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1167	14870231.56	1761169.727	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	1	4/21/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1168	14870207.13	1761163.494	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	6	Metal Scrap	0.02	NA	-	-	1	4/21/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1169	14870197.96	1761149.731	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	2	NA	-	-	2	4/21/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1170	14870189.57	1761147.843	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	1	4/21/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1171	14870183.73	1761144.832	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Other	0.5	NA	-	-	2	4/21/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1172	14870142.83	1761124.878	Mag & Dig	Analog	White's XLT	Cultural Debris	55 Gallon Drum	1	55 Gallon Drum		NA	-	-	0	4/21/2012	Rick Shellenbarger	Left in place

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantitiy	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Green Pond Brook	Green Pond Brook-1173	14870084.84	1761108.319	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	4/22/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1174	14870395.26	1761203.979	Mag & Dig	Analog	White's XLT	Cultural Debris	Concrete	1	Concrete		NA	-	-	0	4/22/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1175	14870352.6	1761194.526	Mag & Dig	Analog	White's XLT	Cultural Debris	Rebar	1	Rebar		NA	-	-	0	4/22/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1176	14870328.1	1761173.11	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	NA	-	-	8	4/22/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1177	14870311.54	1761141.157	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	3	4/22/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1178	14870298.42	1761138.735	Mag & Dig	Analog	White's XLT	UXO	Projectile	1	Fuzed 75mm, Body, Shrapnel No Picture	12.5	NA	-	-	3	4/22/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Green Pond Brook	Green Pond Brook-1179	14870310.86	1761148.894	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	2	4/22/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1180	14870293.65	1761131.854	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	5	NA	-	-	1	4/22/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1181	14870291.15	1761141.259	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable		NA	-	-	0	4/22/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1182	14870280.2	1761136.064	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	15	NA	-	-	1	4/22/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1183	14870264.56	1761141.113	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	2	NA	-	-	1	4/22/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1184	14870207.06	1761078.16	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	3.5	NA	-	-	4	4/22/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1185	14870155.79	1761093.603	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.5	NA	-	-	15	4/22/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1186	14870091.51	1761057.472	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1.5	NA	-	-	2	4/22/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1187	14870043.77	1761052.185	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.1	NA	-	-	2	4/22/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1188	14870045.94	1761048.584	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	3	4/22/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1189	14869983.14	1761018.794	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	2	Bolt		NA	-	-	3	4/22/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1190	14869983.14	1761018.794	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	2	4/22/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1191	14869973.35	1761026.303	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	0	4/22/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1192	14869970.75	1761016.926	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	1	4/22/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1193	14869944.77	1760992.749	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	2	4/22/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1194	14869946.16	1760978.934	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	1	4/22/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1195	14869941.76	1760974.264	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	1	4/22/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1196	14870318.17	1760716.648	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	3	NA	-	-	2	4/22/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1197	14870331.97	1760710.503	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	1	4/22/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1198	14870330.97	1760728.462	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	1	4/22/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1199	14870326.95	1760725.442	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	3	4/22/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-12	14871019.02	1761445.834	Channel 2	20.83	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		0	14871019.02	1761445.834	6	4/15/2012	Eric Kidder	Left in place
Green Pond Brook	Green Pond Brook-1200	14870327.01	1760735.939	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	1	4/22/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1201	14870308.89	1760755.91	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	1	4/22/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1202	14870316.98	1760770.231	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	1	4/22/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1203	14870303.16	1760773.89	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	2	Barbed Wire and Banding	1	NA	-	-	0	4/22/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1204	14870311.53	1760772.467	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire		NA	-	-	1	4/22/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1205	14870293.33	1760776.151	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	1	4/22/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1206	14870294.56	1760802.931	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	0	4/22/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1207	14870284.8	1760817.343	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable		NA	-	-	1	4/22/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1208	14870274.32	1760835.344	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	4	4/22/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1209	14870242.62	1760831.086	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	3	Wire	0.01	NA	-	-	0	4/22/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1210	14870263.93	1760796.455	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	0.5	NA	-	-	0	4/22/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1211	14870278.54	1760803.29	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	0.01	NA	-	-	1	4/22/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1212	14870277.06	1760798.599	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	0	4/22/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1213	14870271.25	1760803.323	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	1	4/22/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1214	14870270.54	1760806.367	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	0	4/22/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1215	14870137.22	1760948.706	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1216	14870137.11	1760926.615	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1217	14870140.76	1760929.356	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	U Bolt	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1218	14870148.06	1760932.084	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	2	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1219	14870148.03	1760926.561	Mag & Dig	Analog	White's XLT	Cultural Debris	Chain	1	Chain	15	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1220	14870133.4	1760912.825	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	4	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1221	14870158.87	1760907.174	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1222	14870158.82	1760898.887	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post	0.1	NA	-	-	2	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1223	14870147.88	1760896.182	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	1	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1224	14870162.45	1760896.107	Mag & Dig	Analog	White's XLT	Cultural Debris	Rebar	1	Rebar	1	NA	-	-	0	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1225	14870166.04	1760885.045	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1226	14870169.55	1760860.172	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Top to Spray Can	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1227	14870173.22	1760865.674	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1228	14870202.33	1760860.006	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	12	Glass Test Tubes with Unknown Liquid		NA	-	-	1	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1229	14870194.98	1760846.237	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1230	14870216.69	1760818.508	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1231	14870213.02	1760813.006	Mag & Dig	Analog	White's XLT	Cultural Debris	Horseshoe	1	Arc/horse shoe	0.5	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA Archaeologist
Green Pond Brook	Green Pond Brook-1232	14870227.48	1760790.837	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1233	14870281.89	1760746.379	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1234	14870278.29	1760754.685	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Debris too large to clear.		NA	-	-	0	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1235	14870307.25	1760718.635	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1236	14870314.54	1760718.602	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	1	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1237	14870292.82	1760746.324	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Debris too large to clear.		NA	-	-	0	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1238	14870271.18	1760787.861	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	NA	-	-	2	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1239	14870245.73	1760799.034	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1240	14870224.02	1760826.757	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		NA	-	-	0	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1241	14870216.69	1760818.508	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	0	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1242	14870195	1760848.995	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1243	14870173.38	1760896.052	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1244	14870166.15	1760907.135	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.1	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1245	14870162.51	1760907.154	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1246	14870147.96	1760912.75	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	0	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1247	14870166.16	1760909.9	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	0	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1248	14870166.23	1760923.705	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	1	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1249	14870184.47	1760929.138	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.1	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1250	14870166.34	1760945.798	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1251	14870159.07	1760948.599	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1252	14870162.66	1760937.532	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1253	14870169.86	1760920.925	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1254	14870173.62	1760945.765	Mag & Dig	Analog	White's XLT	Cultural Debris	Rebar	1	Rebar		NA	-	-	1	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1255	14870177.28	1760948.508	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1256	14870177.24	1760940.221	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	0.1	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1257	14870177.29	1760951.267	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantitiy	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Green Pond Brook	Green Pond Brook-1258	14870198.81	1760884.879	Mag & Dig	Analog	White's XLT	Cultural Debris	Rebar	1	Rebar		NA	-	-	4	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1259	14870198.8	1760882.12	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.1	NA	-	-	0	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1260	14870216.96	1760870.982	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe Fitting	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1261	14870224.11	1760843.327	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1262	14870227.69	1760832.265	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1263	14870238.56	1760821.164	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1264	14870238.57	1760823.923	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	2	Pipe	0.5	NA	-	-	0	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1265	14870245.86	1760823.886	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Aluminum		NA	-	-	1	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1266	14870293.02	1760787.749	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1267	14870296.63	1760779.449	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1268	14870289.33	1760776.723	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire		NA	-	-	0	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1269	14870307.54	1760776.63	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1270	14870310.91	1760721.379	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1271	14870274.76	1760776.793	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	1	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1272	14870289.36	1760782.247	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire		NA	-	-	0	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1273	14870267.55	1760790.638	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	0	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1274	14870271.2	1760793.384	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	0	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1275	14870282.01	1760768.472	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	3	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1276	14870256.86	1760837.643	Mag & Dig	Analog	White's XLT	Cultural Debris	Concrete	1	Concrete		NA	-	-	0	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1277	14870249.59	1760840.438	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1278	14870227.79	1760851.594	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1279	14870231.44	1760854.337	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1280	14870235.07	1760851.557	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1281	14870224.24	1760870.943	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1282	14870209.75	1760887.589	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1283	14870202.61	1760915.241	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	0	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1284	14870202.7	1760934.57	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Debris too large to clear.		NA	-	-	0	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1285	14870235.11	1760859.842	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire		NA	-	-	0	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1286	14870246.05	1760862.549	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	Fencing/Fence Post		NA	-	-	0	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1287	14870224.27	1760876.467	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap		NA	-	-	0	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1288	14870078.94	1760948.999	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	0	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1289	14870137.15	1760934.9	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1290	14870133.61	1760954.25	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1291	14870141.06	1760987.351	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1292	14870141.12	1761001.159	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	0.5	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1293	14870144.78	1761003.902	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire		NA	-	-	1	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1294	14870144.74	1760995.62	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	3	Pipe		NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1295	14870144.74	1760995.62	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	1	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1296	14870144.74	1760995.62	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1297	14870152.17	1761025.962	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1298	14870148.53	1761025.98	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1299	14870166.77	1761031.412	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-13	14871000.21	1761434.479	Channel 2	11.04	White's XLT	Cultural Debris	Metal Scrap	6	Metal Scrap		0	14871000.21	1761434.479	6	4/15/2012	Eric Kidder	Left in place
Green Pond Brook	Green Pond Brook-1300	14870170.41	1761031.391	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	3	Bolt		NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1301	14870170.41	1761031.391	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt Pit		NA	-	-	1	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1302	14870221.58	1761067.041	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Angle Iron		NA	-	-	1	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1303	14870214.36	1761080.883	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1304	14870258.11	1761088.952	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1305	14870254.48	1761091.732	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	0.02	NA	-	-	3	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1306	14870250.95	1761113.84	Mag & Dig	Analog	White's XLT	Munitions Debris	Rocket	1	2.36 Rocket Balistic Nose Cone	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Green Pond Brook	Green Pond Brook-1307	14870283.79	1761127.485	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1308	14870258.3	1761127.615	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1309	14870272.89	1761130.301	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1310	14870272.85	1761124.778	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable		NA	-	-	1	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1311	14870283.79	1761127.485	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1312	14870283.72	1761110.915	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1313	14870269.11	1761102.706	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Banding	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1314	14870269.11	1761102.706	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Banding		NA	-	-	1	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1315	14870243.55	1761091.784	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1316	14870261.75	1761088.931	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1317	14870239.88	1761086.281	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1318	14870254.44	1761083.444	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1319	14870243.4	1761061.408	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	6	Metal Scrap	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1320	14870236.19	1761075.25	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1321	14870217.95	1761069.821	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1322	14870236.17	1761072.491	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1323	14870232.44	1761053.178	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1324	14870228.93	1761080.81	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1325	14870203.35	1761064.367	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1326	14870206.97	1761058.829	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1327	14870210.61	1761058.808	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1328	14870181.38	1761039.625	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1329	14870192.32	1761042.332	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1330	14870199.58	1761036.772	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	1	Nail Pit		NA	-	-	2	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1331	14870155.75	1761012.133	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag	1	NA	-	-	6	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1332	14870155.72	1761006.609	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	6	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1333	14870155.63	1760990.039	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	3	NA	-	-	6	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1334	14870155.63	1760990.039	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	2	NA	-	-	6	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1335	14870155.63	1760990.039	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	10	NA	-	-	4	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1336	14870140.95	1760965.257	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1337	14870151.83	1760956.918	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	5	Metal Scrap	6	NA	-	-	2	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1338	14870151.83	1760956.918	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	2	NA	-	-	2	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1339	14870155.61	1760984.516	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Banding	0.1	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1340	14870173.89	1760998.236	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	2	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1341	14870173.9	1761000.995	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	NA	-	-	4	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1342	14870173.9	1761000.995	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	5	NA	-	-	4	5/6/2012	Rick Shellenbarger	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantitiy	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Green Pond Brook	Green Pond Brook-1343	14870195.96	1761042.311	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	6	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1344	14870195.96	1761042.311	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	4	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1345	14870239.78	1761064.188	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.1	NA	-	-	4	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1346	14870250.91	1761105.558	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	1	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1347	14870290.97	1761105.355	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Debris too large to clear.		NA	-	-	0	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1348	14870305.41	1761080.428	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Banding	0.1	NA	-	-	2	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1349	14870305.41	1761080.428	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	10	NA	-	-	2	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1350	14870320	1761083.119	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Debris too large to clear.		NA	-	-	0	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1351	14870301.74	1761074.925	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.1	NA	-	-	4	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1352	14870261.71	1761080.649	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	5	Nail Pit	0.01	NA	-	-	2	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1353	14870254.51	1761097.255	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	3	NA	-	-	0	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1354	14870254.4	1761075.162	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	3	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1355	14870239.76	1761061.424	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	2	Pipe	3	NA	-	-	0	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1356	14870228.74	1761042.147	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Bolt and Other Metal Scrap	0.1	NA	-	-	0	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1357	14870217.85	1761050.486	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	4	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1358	14870217.85	1761050.486	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Piece of Pipe	0.01	NA	-	-	2	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1359	14870243.34	1761047.597	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	50 ft of Cable		NA	-	-	1	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1360	14870279.78	1761052.942	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Shovel Spade	3	NA	-	-	0	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1361	14870268.76	1761033.665	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	1	Debris too large to clear.	1	NA	-	-	6	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1362	14870151.79	1760948.636	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	1	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1363	14870151.79	1760948.636	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	2	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1364	14870210.32	1761000.816	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	5/6/2012	Rick Shellenbarger	Transferred to PTA
Green Pond Brook	Green Pond Brook-1365	14870210.32	1761000.816	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Debris too large to clear.		NA	-	-	0	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-1366	14870272.43	1761039.167	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	4	Debris too large to clear.	0.1	NA	-	-	0	5/6/2012	Rick Shellenbarger	Left in place
Green Pond Brook	Green Pond Brook-14	14870986.44	1761435.724	Channel 2	1.03	White's XLT	Cultural Debris	Metal Scrap	1	18" Steel Bar and Aluminum Foil		0	14870986.44	1761435.724	6	4/15/2012	Eric Kidder	Left in place
Green Pond Brook	Green Pond Brook-15	14870978.66	1761430.453	Channel 2	1.14	White's XLT	Cultural Debris	Metal Scrap	8	Metal Scrap		0	14870978.66	1761430.453	6	4/15/2012	Eric Kidder	Left in place
Green Pond Brook	Green Pond Brook-16	14870960.57	1761432.489	Channel 2	8.83	White's XLT	Cultural Debris	Metal Scrap	5	Metal Scrap		0	14870960.57	1761432.489	6	4/15/2012	Eric Kidder	Left in place
Green Pond Brook	Green Pond Brook-17	14870951.34	1761430.573	Channel 2	6.07	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	24	14870949.93	1761429.159	4	4/15/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-18-1	14870925.94	1761415.837	Channel 2	3.32	White's XLT	Cultural Debris	Wire	1	Wire	2	0	14870925.94	1761415.837	6	4/15/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-18-2	14870925.94	1761415.837	Channel 2	3.32	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		18	14870925.94	1761414.337	8	4/15/2012	Eric Kidder	Left in place
Green Pond Brook	Green Pond Brook-19-1	14870917.17	1761404.587	Channel 2	10.71	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		0	14870917.17	1761404.587	4	4/21/2012	Eric Kidder	Left in place
Green Pond Brook	Green Pond Brook-19-2	14870917.17	1761404.587	Channel 2	10.71	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		0	14870917.17	1761404.587	0	4/21/2012	Eric Kidder	Left in place
Green Pond Brook	Green Pond Brook-19-3	14870917.17	1761404.587	Channel 2	10.71	White's XLT	Cultural Debris	Can	1	Can	0.01	0	14870917.17	1761404.587	0	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-19-4	14870917.17	1761404.587	Channel 2	10.71	White's XLT	Cultural Debris	Foil	1	Foil	0.01	0	14870917.17	1761404.587	3	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-19-5	14870917.17	1761404.587	Channel 2	10.71	White's XLT	Cultural Debris	Foil	1	Foil	0.01	0	14870917.17	1761404.587	4	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-19-6	14870917.17	1761404.587	Channel 2	10.71	White's XLT	Cultural Debris	Foil	1	Foil	0.01	0	14870917.17	1761404.587	2	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-19-7	14870917.17	1761404.587	Channel 2	10.71	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14870917.17	1761404.587	2	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-19-8	14870917.17	1761404.587	Channel 2	10.71	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14870917.17	1761404.587	4	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-19-9	14870917.17	1761404.587	Channel 2	10.71	White's XLT	Cultural Debris	Other	1	Other	0.01	0	14870917.17	1761404.587	0	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-2	14871324.29	1761567.986	Channel 2	21.39	White's XLT	Cultural Debris	Metal Scrap	4	Trash Cans and Trash Pit		0	14871324.29	1761567.986	6	4/15/2012	Eric Kidder	Left in place
Green Pond Brook	Green Pond Brook-20-1	14870904.26	1761404.456	Channel 2	3.44	White's XLT	Cultural Debris	Can	1	Can	0.01	0	14870904.26	1761404.456	3	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-20-2	14870904.26	1761404.456	Channel 2	3.44	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	0	14870904.26	1761404.456	6	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-20-3	14870904.26	1761404.456	Channel 2	3.44	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	0	14870904.26	1761404.456	3	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-20-4	14870904.26	1761404.456	Channel 2	3.44	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14870904.26	1761404.456	2	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-20-5	14870904.26	1761404.456	Channel 2	3.44	White's XLT	Cultural Debris	Can	1	Can	0.01	0	14870904.26	1761404.456	0	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-20-6	14870904.26	1761404.456	Channel 2	3.44	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14870904.26	1761404.456	2	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-21-1	14870880.57	1761407.842	Channel 2	13.97	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1.5	0	14870880.57	1761407.842	2	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-21-2	14870880.57	1761407.842	Channel 2	13.97	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	4	0	14870880.57	1761407.842	3	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-21-3	14870880.57	1761407.842	Channel 2	13.97	White's XLT	Cultural Debris	Nail	1	Nail	0.01	0	14870880.57	1761407.842	4	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-21-4	14870880.57	1761407.842	Channel 2	13.97	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	5	0	14870880.57	1761407.842	4	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-21-5	14870880.57	1761407.842	Channel 2	13.97	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14870880.57	1761407.842	3	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-21-6	14870880.57	1761407.842	Channel 2	13.97	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	5	0	14870880.57	1761407.842	6	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-21-7	14870880.57	1761407.842	Channel 2	13.97	White's XLT	Cultural Debris	Nail	1	Nail	0.01	0	14870880.57	1761407.842	2	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-21-8	14870880.57	1761407.842	Channel 2	13.97	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14870880.57	1761407.842	8	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-21-9	14870880.57	1761407.842	Channel 2	13.97	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14870880.57	1761407.842	6	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-21-10	14870880.57	1761407.842	Channel 2	13.97	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14870880.57	1761407.842	4	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-21-11	14870880.57	1761407.842	Channel 2	13.97	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14870880.57	1761407.842	3	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-22-1	14870862.69	1761388.881	Channel 2	8.51	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	5	0	14870862.69	1761388.881	0	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-22-2	14870862.69	1761388.881	Channel 2	8.51	White's XLT	Cultural Debris	Wire	1	Wire	10	0	14870862.69	1761388.881	3	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-22-3	14870862.69	1761388.881	Channel 2	8.51	White's XLT	Cultural Debris	Wire	1	Wire	2	0	14870862.69	1761388.881	3	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-23-1	14870417.9	1761244.334	Channel 2	7.72	White's XLT	Geology	Hot rock	1	Hot Rock. Debris too large to clear.		0	14870417.9	1761244.334	0	4/21/2012	Eric Kidder	Left in place
Green Pond Brook	Green Pond Brook-23-2	14870417.9	1761244.334	Channel 2	7.72	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1.5	0	14870417.9	1761244.334	6	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-23-3	14870417.9	1761244.334	Channel 2	7.72	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14870417.9	1761244.334	2	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-23-4	14870417.9	1761244.334	Channel 2	7.72	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14870417.9	1761244.334	3	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-23-5	14870417.9	1761244.334	Channel 2	7.72	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14870417.9	1761244.334	6	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-23-6	14870417.9	1761244.334	Channel 2	7.72	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14870417.9	1761244.334	3	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-24-1	14870412.9	1761279.142	Channel 2	22.54	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1.5	0	14870412.9	1761279.142	4	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-24-2	14870412.9	1761279.142	Channel 2	22.54	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14870412.9	1761279.142	3	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-24-3	14870412.9	1761279.142	Channel 2	22.54	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14870412.9	1761279.142	3	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-24-4	14870412.9	1761279.142	Channel 2	22.54	White's XLT	Cultural Debris	Other	1	Other	1	0	14870412.9	1761279.142	3	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-24-5	14870412.9	1761279.142	Channel 2	22.54	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14870412.9	1761279.142	2	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-25-1	14870407.91	1761272.716	Channel 2	22.68	White's XLT	Geology	Hot rock	1	Hot rock	0.5	0	14870407.91	1761272.716	2	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-25-2	14870407.91	1761272.716	Channel 2	22.68	White's XLT	Geology	Hot rock	1	Hot rock	0.1	0	14870407.91	1761272.716	0	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-25-3	14870407.91	1761272.716	Channel 2	22.68	White's XLT	Geology	Hot rock	1	Hot rock	0.5	0	14870407.91	1761272.716	3	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-26-1	14870402.02	1761266.848	Channel 2	22.16	White's XLT	Geology	Hot rock	1	Hot rock	1	0	14870402.02	1761266.848	3	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-26-2	14870402.02	1761266.848	Channel 2	22.16	White's XLT	Geology	Hot rock	1	Hot rock	0.1	0	14870402.02	1761266.848	2	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-26-3	14870402.02	1761266.848	Channel 2	22.16	White's XLT	Geology	Hot rock	1	Hot rock	1	0	14870402.02	1761266.848	1	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-27-1	14870401.12	1761243.263	Channel 2	7.73	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14870401.12	1761243.263	2	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-27-2	14870401.12	1761243.263	Channel 2	7.73	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	0	14870401.12	1761243.263	4	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-27-3	14870401.12	1761243.263	Channel 2	7.73	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	0	14870401.12	1761243.263	2	4/21/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-28	14870245.65	1761125.808	Channel 2	8.38	White's XLT	Cultural Debris	Metal Scrap	13	Metal Scrap	1.5	0	14870245.65	1761125.808	6	4/15/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-29	14870239.93	1761123.666	Channel 2	9.20	White's XLT	Cultural Debris	Metal Scrap	13	Metal Scrap	1.5	0	14870239.93	1761123.666	6	4/15/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-3	14871314.82	1761561.756	Channel 2	18.04	White's XLT	Cultural Debris	Metal Scrap	1	Trash Cans and Trash Pit		0	14871314.82	1761561.756	6	4/15/2012	Eric Kidder	Left in place
Green Pond Brook	Green Pond Brook-30	14870232.79	1761122.06	Channel 2	5.89	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	0	14870232.79	1761122.06	6	4/15/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-31-1	14870180.14	1761098.319	Channel 2	6.44	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	4	14870180.47	1761098.319	4	4/15/2012	Eric Kidder	Transferred to PTA
Green Pond Brook	Green Pond Brook-31-2	14870180.14	1761098.319	Channel 2	6.44	White's XLT	Cultural Debris	Wire	3	Wire	0.1	18	14870180.14	1761096.819	6	4/15/2012	Eric Kidder	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantitiy	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Green Pond Brook	Green Pond Brook-32	14870066.61	1761053.693	Channel 2	6.19	White's XLT	Cultural Debris	Metal Scrap	1	Two 4'x6' Pieces of Sheet Metal		24	14870065.2	1761052.279	4	4/15/2012	Eric Kidder	Left in place
Green Pond Brook	Green Pond Brook-4	14871304.22	1761556.536	Channel 2	20.84	White's XLT	Cultural Debris	Metal Scrap	1	Trash Cans and Trash Pit		0	14871304.22	1761556.536	6	4/15/2012	Eric Kidder	Left in place
Green Pond Brook	Green Pond Brook-5	14871300.69	1761554.089	Channel 2	20.54	White's XLT	Cultural Debris	Metal Scrap	1	Trash Cans and Trash Pit		0	14871300.69	1761554.089	6	4/15/2012	Eric Kidder	Left in place
Green Pond Brook	Green Pond Brook-6	14871295.54	1761541.39	Channel 2	21.23	White's XLT	Cultural Debris	Metal Scrap	5	Trash Cans and Trash Pit		2	14871295.54	1761541.557	4	4/15/2012	Eric Kidder	Left in place
Green Pond Brook	Green Pond Brook-7	14871166.99	1761479.212	Channel 2	10.07	White's XLT	Cultural Debris	Metal Scrap	1	Reinforced Concrete and Metal Scrap		2	14871166.99	1761479.379	6	4/15/2012	Eric Kidder	Left in place
Green Pond Brook	Green Pond Brook-8	14871145.54	1761473.462	Channel 2	11.26	White's XLT	Cultural Debris	Metal Scrap	4	Reinforced Concrete and Metal Scrap		0	14871145.54	1761473.462	6	4/15/2012	Eric Kidder	Left in place
Green Pond Brook	Green Pond Brook-9	14871130.93	1761470.107	Channel 2	12.86	White's XLT	Cultural Debris	Metal Scrap	3	Reinforced Concrete and Metal Scrap		0	14871130.93	1761470.107	6	4/15/2012	Eric Kidder	Left in place
Green Pond Brook	Green Pond Brook-901	14871455.34	1761757.621	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	2	NA	-	-	1	4/15/2012	Jason Leseiko	Transferred to PTA
Green Pond Brook	Green Pond Brook-902	14871472.79	1761751.731	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	3	4/15/2012	Jason Leseiko	Transferred to PTA
Green Pond Brook	Green Pond Brook-903	14871226.84	1761585.064	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	3	4/15/2012	Jason Leseiko	Left in place
Green Pond Brook	Green Pond Brook-904	14871209.02	1761589.02	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	3	4/15/2012	Jason Leseiko	Left in place
Green Pond Brook	Green Pond Brook-905	14871206.34	1761564.455	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	NA	-	-	4	4/15/2012	Jason Leseiko	Transferred to PTA
Green Pond Brook	Green Pond Brook-906	14871135.57	1761541.061	Mag & Dig	Analog	White's XLT	Cultural Debris	Brass	1	Brass	0.02	NA	-	-	4	4/15/2012	Jason Leseiko	Transferred to PTA
Green Pond Brook	Green Pond Brook-907	14871110.76	1761531.796	Mag & Dig	Analog	White's XLT	Cultural Debris	Rebar	1	Rebar	0.5	NA	-	-	3	4/15/2012	Jason Leseiko	Transferred to PTA
Green Pond Brook	Green Pond Brook-908	14871040.3	1761500.114	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Aluminum	0.01	NA	-	-	8	4/15/2012	Jason Leseiko	Transferred to PTA
Green Pond Brook	Green Pond Brook-909	14870919.71	1761490.225	Mag & Dig	Analog	White's XLT	Munitions Debris	Fuze	1	PTTF Fuze Ring	0.1	NA	-	-	6	4/15/2012	Jason Leseiko	Verified as MDAS/Transferred to PTA
Green Pond Brook	Green Pond Brook-910	14870870.21	1761424.194	Mag & Dig	Analog	White's XLT	Munitions Debris	Fuze	1	PTTF Fuze Ring	0.1	NA	-	-	4	4/15/2012	Jason Leseiko	Verified as MDAS/Transferred to PTA
Green Pond Brook	Green Pond Brook-911	14870848.78	1761437.278	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	6	4/15/2012	Jason Leseiko	Transferred to PTA
Green Pond Brook	Green Pond Brook-912	14870759.29	1761385.534	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	7.5	NA	-	-	3	4/15/2012	Jason Leseiko	Transferred to PTA
Green Pond Brook	Green Pond Brook-913	14870738.77	1761361.884	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	6	4/15/2012	Jason Leseiko	Transferred to PTA
Green Pond Brook	Green Pond Brook-914	14870721.75	1761380.475	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	9	4/15/2012	Jason Leseiko	Transferred to PTA
Green Pond Brook	Green Pond Brook-915	14870672.39	1761342.609	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	4	4/15/2012	Jason Leseiko	Transferred to PTA
Green Pond Brook	Green Pond Brook-916	14870668.7	1761332.685	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe, Various Fuze Parts, Various Adapters	0.5	NA	-	-	6	4/15/2012	Jason Leseiko	Transferred to PTA
Green Pond Brook	Green Pond Brook-917	14870569.13	1761303.084	Mag & Dig	Analog	White's XLT	Munitions Debris	Other MD	36	MK10 Naval fuzes, VB grenades, Misc ord, Functioned	100	NA	-	-	3	4/15/2012	Jason Leseiko	Verified as MDAS/Transferred to PTA
Green Pond Brook	Green Pond Brook-918	14870557.72	1761280.217	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Oxygen Tank		NA	-	-	8	4/15/2012	Jason Leseiko	Left in place
Green Pond Brook	Green Pond Brook-919	14870538.45	1761285.839	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1.5	NA	-	-	12	4/15/2012	Jason Leseiko	Transferred to PTA
Green Pond Brook	Green Pond Brook-920	14870538.82	1761288.044	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	6	4/15/2012	Jason Leseiko	Transferred to PTA
Green Pond Brook	Green Pond Brook-921	14870539.2	1761291.356	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.5	NA	-	-	4	4/15/2012	Jason Leseiko	Transferred to PTA
Green Pond Brook	Green Pond Brook-922	14870522.04	1761282.884	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	0	4/15/2012	Jason Leseiko	Left in place
Green Pond Brook	Green Pond Brook-923	14870516.58	1761283.463	Mag & Dig	Analog	White's XLT	Munitions Debris	Projectile	1	O268 40 mm with Corroded	0.5	NA	-	-	1	4/15/2012	Jason Leseiko	Verified as MDAS/Transferred to PTA
Green Pond Brook	Green Pond Brook-924	14870519.45	1761274.609	Mag & Dig	Analog	White's XLT	Munitions Debris	Projectile	1	40 mm Practice	0.5	NA	-	-	6	4/15/2012	Jason Leseiko	Transferred to PTA
Green Pond Brook	Green Pond Brook-925	14870504.91	1761280.205	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	NA	-	-	6	4/15/2012	Jason Leseiko	Transferred to PTA
Green Pond Brook	Green Pond Brook-926	14870508.18	1761279.639	Mag & Dig	Analog	White's XLT	Munitions Debris	Other MD	1	Other MD	0.25	NA	-	-	3	4/15/2012	Jason Leseiko	Verified as MDAS/Transferred to PTA
Green Pond Brook	Green Pond Brook-927	14870500.09	1761264.764	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	4	Pipe	2	NA	-	-	4	4/15/2012	Jason Leseiko	Transferred to PTA
Green Pond Brook	Green Pond Brook-928	14870488.81	1761265.651	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	6	4/15/2012	Jason Leseiko	Left in place
Green Pond Brook	Green Pond Brook-929	14870423.14	1761243.334	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	NA	-	-	2	4/15/2012	Jason Leseiko	Transferred to PTA

Project Name:	Picatinny Arsenal	Geophysical Contractor:	WESTON
Project Location:	Picatinny, NJ	Project Geophysicist:	Ryan Steigerwalt
Date:	7/11/2012	Site Geophysicist:	Paul Novak
Coordinate System:	UTM 18N		
MRS:	Inactive Munitions Waste Pit Area - Off Post	USACE Geophysicist:	Megan Garrett

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Inactive Munitions Waste Pit	IMW-T04-1001	14878049.51	1764147.645	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	NA	-	-	1	5/24/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Inactive Munitions Waste Pit	IMW-T04-1002	14878086.01	1764164.02	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	1	5/24/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Inactive Munitions Waste Pit	IMW-T04-1003	14878177.27	1764202.204	Mag & Dig	Analog	White's XLT	Munitions Debris	Projectile	1	37mm projectile	0.5	NA	-	-	2	5/24/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Inactive Munitions Waste Pit	IMW-T04-1004	14878239.55	1764273.668	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.02	NA	-	-	4	5/24/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Inactive Munitions Waste Pit	IMW-T04-1005	14878221.22	1764251.675	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	2	5/24/2012	Eric Kidder	Transferred to PTA
Inactive Munitions Waste Pit	IMW-T04-1006	14878598.68	1764702.503	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.01	NA	-	-	2	5/24/2012	Eric Kidder	Left in place

Project Name:	Picatinny Arsenal	Geophysical Contractor:	WESTON
Project Location:	Picatinny, NJ	Project Geophysicist:	Ryan Steigerwalt
Date:	7/11/2012	Site Geophysicist:	Paul Novak
Coordinate System:	UTM 18N		
MRS:	Lakes (Lake Denmark)	USACE Geophysicist:	Megan Garrett

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Lake Demark	LDM-001-1	14878735	1771889.75	Channel 2	12.65	White's XLT	Cultural Debris	Bolt	1	Bolt	0.01	0	14878735	1771889.75	4	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-10	14878743.75	1771861.25	Channel 2	7.38	White's XLT	Small Arms	Casing	22	Debris too large to clear. Small Arms casings.		0	14878743.75	1771861.25	4	5/25/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-001-1201	14881836.23	1776779.151	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	0	5/31/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-001-1202	14881680.14	1776871.128	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	0	5/31/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-001-13	14878748.25	1771816	Channel 2	16.04	White's XLT	Cultural Debris	Foil	1	Foil	0.01	0	14878748.25	1771816	0	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-15	14878747.75	1771865.218	Channel 2	7.49	White's XLT	Cultural Debris	Foil	1	Foil	0.01	0	14878747.75	1771865.218	4	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-17	14878748.75	1771846.75	Channel 2	6.18	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14878748.75	1771846.75	0	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-18	14878750.25	1771828.75	Channel 2	590.95	White's XLT	Cultural Debris	Fencing/Fence Post	3	Fencing/Fence Post	2	0	14878750.25	1771828.75	6	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-19	14878752.5	1771856.75	Channel 2	72.35	White's XLT	Seed	2" x 8" Pipe	1	Seed	1.5	0	14878752.5	1771856.75	0	5/25/2012	Rick Shellenbarger	Retained by Weston
Lake Demark	LDM-001-22	14878753.25	1771814	Channel 2	40.12	White's XLT	Cultural Debris	Other	1	Bottle	0.1	0	14878753.25	1771814	0	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-23	14878754.5	1771823.75	Channel 2	494.71	White's XLT	Cultural Debris	Foil	1	Foil	0.01	0	14878754.5	1771823.75	6	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-24	14878754.75	1771796	Channel 2	29.48	White's XLT	Cultural Debris	Foil	1	Foil	0.01	0	14878754.75	1771796	0	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-25	14878755.25	1771826.5	Channel 2	693.53	White's XLT	Cultural Debris	Can	1	Piece of Can	0.01	0	14878755.25	1771826.5	6	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-28	14878758.25	1771861	Channel 2	7.49	White's XLT	Small Arms	Shotgun Primer	1	Shotgun Primer	0.01	0	14878758.25	1771861	6	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-3	14878737	1771868.75	Channel 2	11.39	White's XLT	Cultural Debris	Cable	1	Debris too large to clear.		0	14878737	1771868.75	0	5/25/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-001-30	14878760.75	1771809.5	Channel 2	118.02	White's XLT	Cultural Debris	Foil	1	Foil Plate	0.01	0	14878760.75	1771809.5	0	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-32	14878764.25	1771782.5	Channel 2	85.36	White's XLT	Small Arms	Blank Ammunition	1	Blank Ammunition	0.01	0	14878764.25	1771782.5	4	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-33	14878764.75	1771746	Channel 2	55.43	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14878764.75	1771746	2	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-34	14878765.75	1771877.75	Channel 2	7.65	White's XLT	Cultural Debris	Metal Scrap	1	Chip Bag	0.01	0	14878765.75	1771877.75	0	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-36	14878769	1771906.25	Channel 2	21.65	White's XLT	Cultural Debris	Can	1	Can	0.01	0	14878769	1771906.25	0	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-37	14878770.25	1771759.25	Channel 2	9.33	White's XLT	Cultural Debris	Wire	1	Wire	0.01	0	14878770.25	1771759.25	4	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-38	14878770.5	1771762.25	Channel 2	9.42	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14878770.5	1771762.25	4	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-39	14878771.25	1771821	Channel 2	6.97	White's XLT	Cultural Debris	Foil	1	Foil	0.01	0	14878771.25	1771821	3	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-4	14878739.25	1771869.5	Channel 2	21.36	White's XLT	Cultural Debris	Cable	1	Debris too large to clear.		0	14878739.25	1771869.5	0	5/25/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-001-40	14878772.25	1771904	Channel 2	7.26	White's XLT	Cultural Debris	Metal Scrap	1	Soda Pop Top	0.01	0	14878772.25	1771904	4	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-41	14878773.25	1771769.25	Channel 2	197.91	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	0	14878773.25	1771769.25	4	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-42	14878777	1771803.5	Channel 2	6.75	White's XLT	Cultural Debris	Foil	1	Foil	0.01	0	14878777	1771803.5	0	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-44	14878777.5	1771831.5	Channel 2	5.05	White's XLT	Cultural Debris	Foil	1	Foil	0.01	0	14878777.5	1771831.5	0	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-45	14878778	1771791.5	Channel 2	170.34	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14878778	1771791.5	6	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-46	14878779.75	1771736.75	Channel 2	169.76	White's XLT	Cultural Debris	Foil	1	Foil	0.01	0	14878779.75	1771736.75	0	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-47	14878781.13	1771739.837	Channel 2	102.04	White's XLT	Cultural Debris	Foil	1	Foil	0.01	0	14878781.13	1771739.837	0	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-48	14878780.25	1771789.25	Channel 2	278.63	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14878780.25	1771789.25	3	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-49	14878780.5	1771712.25	Channel 2	24.41	White's XLT	Cultural Debris	Foil	1	Foil	0.01	0	14878780.5	1771712.25	4	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-5	14878739.25	1771871.75	Channel 2	22.78	White's XLT	Cultural Debris	Cable	1	Debris too large to clear.		0	14878739.25	1771871.75	0	5/25/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-001-52	14878787.25	1771848.25	Channel 2	416.19	White's XLT	Cultural Debris	Wire	1	Wire	0.01	0	14878787.25	1771848.25	3	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-53	14878787.75	1771846	Channel 2	389.05	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	3	0	14878787.75	1771846	0	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-54	14878793.5	1771853.5	Channel 2	13.73	White's XLT	Cultural Debris	Foil	1	Foil	0.01	0	14878793.5	1771853.5	4	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-55	14878795.25	1771750.842	Channel 2	12.72	White's XLT	Cultural Debris	Can	1	Can	0.02	0	14878795.25	1771750.842	0	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-57	14878796	1771758.25	Channel 2	7.85	White's XLT	Cultural Debris	Foil	1	Foil	0.01	0	14878796	1771758.25	3	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-58	14878797.25	1771756	Channel 2	11.57	White's XLT	Cultural Debris	Foil	1	Foil	0.01	0	14878797.25	1771756	3	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-59	14878800	1771759.5	Channel 2	16.34	White's XLT	Cultural Debris	Metal Scrap	1	Lid	0.01	0	14878800	1771759.5	4	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-6	14878739.5	1771881.75	Channel 2	16.56	White's XLT	Cultural Debris	Wire	1	Wire	0.01	0	14878739.5	1771881.75	0	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-60	14878802	1771756.75	Channel 2	23.37	White's XLT	Cultural Debris	Chain	1	Chain	1	0	14878802	1771756.75	4	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-62	14878804	1771806.25	Channel 2	26.60	White's XLT	Cultural Debris	Other	1	Grounding Rod. Debris too large to clear.		0	14878804	1771806.25	0	5/25/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-001-63	14878806	1771791.5	Channel 2	6.98	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14878806	1771791.5	0	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-64	14878807.81	1771747.285	Channel 2	93.38	White's XLT	Cultural Debris	Metal Scrap	1	Metal Plate	3	0	14878807.81	1771747.285	6	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-65	14878808.5	1771755.25	Channel 2	1414.22	White's XLT	Cultural Debris	Fencing/Fence Post	1	Debris too large to clear.		0	14878808.5	1771755.25	0	5/25/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-001-68	14878816	1771719.75	Channel 2	7.77	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14878816	1771719.75	4	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-69	14878817.5	1771726.75	Channel 2	7.78	White's XLT	Cultural Debris	Metal Scrap	1	Ring	0.01	0	14878817.5	1771726.75	2	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-7	14878740.25	1771857	Channel 2	99.12	White's XLT	Cultural Debris	Metal Scrap	1	Metal Sheet	0.01	0	14878740.25	1771857	0	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-70	14878761.2	1771784.846	Channel 2	8.58	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14878761.2	1771784.846	2	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-71	14878737.87	1771862.846	Channel 2	10.09	White's XLT	Cultural Debris	Bottle Top	1	Bottle Top	0.01	0	14878737.87	1771862.846	0	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-72	14878808.82	1771717.872	Channel 2	5.05	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14878808.82	1771717.872	4	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-73	14878801.65	1771726.019	Channel 2	4.58	White's XLT	Cultural Debris	Foil	1	Foil	0.01	0	14878801.65	1771726.019	0	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-74	14878784.71	1771738.109	Channel 2	59.68	White's XLT	Cultural Debris	Bottle Top	1	Bottle Top	0.01	0	14878784.71	1771738.109	3	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-75	14878765.68	1771752.447	Channel 2	3.79	White's XLT	Cultural Debris	Foil	1	Foil	0.01	0	14878765.68	1771752.447	4	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-76	14878776.34	1771782.123	Channel 2	4.85	White's XLT	Small Arms	Shotgun Primer	1	Shotgun Primer	0.01	0	14878776.34	1771782.123	6	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-77	14878791.34	1771864.715	Channel 2	5.90	White's XLT	Geology	Hot rock	1	Debris too large to clear.		0	14878791.34	1771864.715	4	5/25/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-001-78	14878766.71	1771869.202	Channel 2	5.76	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14878766.71	1771869.202	2	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-79	14878752.5	1771878.022	Channel 2	5.25	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14878752.5	1771878.022	4	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-8	14878741.75	1771882.25	Channel 2	20.72	White's XLT	Cultural Debris	Wire	1	Wire	0.01	0	14878741.75	1771882.25	0	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-80	14878782.96	1771893.754	Channel 2	5.04	White's XLT	Geology	Hot rock	1	Debris too large to clear.		0	14878782.96	1771893.754	6	5/25/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-001-81	14878746.99	1771892.508	Channel 2	6.51	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14878746.99	1771892.508	2	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-82	14878760.24	1771907.504	Channel 2	5.03	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.01	0	14878760.24	1771907.504	4	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-001-83	14878774.02	1771913.204	Channel 2	4.20	White's XLT	Geology	Hot rock	1	Debris too large to clear.		0	14878774.02	1771913.204	6	5/25/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-001-9	14878742.75	1771845.5	Channel 2	65.24	White's XLT	Cultural Debris	Can	1	Can	0.01	0	14878742.75	1771845.5	4	5/25/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T01-1001	14879151.78	1770817.372	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag		NA	-	-	12	5/9/2012	Eric Kidder	Left in place
Lake Demark	LDM-T01-1002	14879156.02	1770927.78	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag		NA	-	-	4	5/9/2012	Eric Kidder	Left in place
Lake Demark	LDM-T01-1003	14879170.8	1770966.348	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag		NA	-	-	4	5/9/2012	Eric Kidder	Left in place
Lake Demark	LDM-T01-1004	14879170.95	1770993.954	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag		NA	-	-	6	5/9/2012	Eric Kidder	Left in place
Lake Demark	LDM-T02-1001	14879297.63	1770846.951	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Scrap Metal Area		NA	-	-	4	5/9/2012	Eric Kidder	Left in place
Lake Demark	LDM-T02-1002	14879283.39	1770907.764	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	1	5/9/2012	Eric Kidder	Left in place
Lake Demark	LDM-T03-1001	14879415.67	1771122.381	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Rock		NA	-	-	4	5/9/2012	Eric Kidder	Left in place
Lake Demark	LDM-T04-1001	14879550.65	1771163.063	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Grounding Rod		NA	-	-	1	5/9/2012	Eric Kidder	Left in place
Lake Demark	LDM-T04-1002	14879543.47	1771182.424	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	3	Nail Pit		NA	-	-	6	5/9/2012	Eric Kidder	Left in place
Lake Demark	LDM-T04-1003	14879533	1771268.064	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	4	5/9/2012	Eric Kidder	Transferred to PTA
Lake Demark	LDM-T04-1004	14879558.48	1771265.165	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable		NA	-	-	2	5/9/2012	Eric Kidder	Left in place
Lake Demark	LDM-T04-1005	14879592.66	1771521.721	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Barbed-wire	0.1	NA	-	-	2	5/9/2012	Eric Kidder	Transferred to PTA
Lake Demark	LDM-T04-1006	14879596.39	1771538.265	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slat Pit 10 x 10 ft		NA	-	-	3	5/9/2012	Eric Kidder	Left in place
Lake Demark	LDM-T04-1007	14879629.9	1771673.352	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag Pit 20 x 20 ft		NA	-	-	4	5/9/2012	Eric Kidder	Left in place
Lake Demark	LDM-T05-1001	14879732.36	1771761.135	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Hot Road		NA	-	-	4	5/9/2012	Eric Kidder	Left in place
Lake Demark	LDM-T06-1001	14879799.37	1771357.717	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.1	NA	-	-	3	5/9/2012	Eric Kidder	Transferred to PTA
Lake Demark	LDM-T06-1002	14879768.96	1771794.064	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Road		NA	-	-	3	5/9/2012	Eric Kidder	Left in place
Lake Demark	LDM-T07-1001	14879922.93	1771978.187	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Road		NA	-	-	3	5/9/2012	Eric Kidder	Left in place
Lake Demark	LDM-T07-1002	14879918.89	1771903.672	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Road		NA	-	-	4	5/9/2012	Eric Kidder	Left in place
Lake Demark	LDM-T07-1003	14879857.6	1771349.122	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable, Fragment		NA	-	-	0	5/9/2012	Eric Kidder	Left in place
Lake Demark	LDM-T07-1004	14879959.92	1771412.061	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	1	5/9/2012	Eric Kidder	Left in place

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Lake Demark	LDM-T07-1005	14879963.57	1771414.802	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	4	5/9/2012	Eric Kidder	Transferred to PTA
Lake Demark	LDM-T07-1006	14879992.67	1771406.359	Mag & Dig	Analog	White's XLT	Munitions Debris	Frag	1	Fragment	0.25	NA	-	-	6	5/9/2012	Eric Kidder	Verified as MDAS/Transferred to PTA
Lake Demark	LDM-T07-1007	14879981.74	1771406.421	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	5	Nail		NA	-	-	4	5/9/2012	Eric Kidder	Left in place
Lake Demark	LDM-T07-1008	14879988.99	1771400.858	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	5	5x5 ft Nail Pit		NA	-	-	4	5/9/2012	Eric Kidder	Left in place
Lake Demark	LDM-T07-1009	14879988.99	1771400.858	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	4	5/9/2012	Eric Kidder	Transferred to PTA
Lake Demark	LDM-T07-1010	14879999.89	1771395.277	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	1	NA	-	-	6	5/9/2012	Eric Kidder	Transferred to PTA
Lake Demark	LDM-T07-1011	14880003.5	1771389.739	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	NA	-	-	4	5/9/2012	Eric Kidder	Transferred to PTA
Lake Demark	LDM-T07-1012	14880014.38	1771381.396	Mag & Dig	Analog	White's XLT	Cultural Debris	Iron Scrap	1	Iron Scrap	2	NA	-	-	6	5/9/2012	Eric Kidder	Transferred to PTA
Lake Demark	LDM-T07-1013	14880003.41	1771373.176	Mag & Dig	Analog	White's XLT	Cultural Debris	Link	1	Link	1	NA	-	-	2	5/9/2012	Eric Kidder	Transferred to PTA
Lake Demark	LDM-T08-1001	14880011.49	1771519.445	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable		NA	-	-	0	5/9/2012	Eric Kidder	Left in place
Lake Demark	LDM-T08-1002	14880013.97	1771974.93	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Hot Road		NA	-	-	4	5/9/2012	Eric Kidder	Left in place
Lake Demark	LDM-T09-1001	14880175.35	1772181.095	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag		NA	-	-	4	5/9/2012	Eric Kidder	Left in place
Lake Demark	LDM-T09-1002	14880175.4	1772189.379	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Hot Road and Slag		NA	-	-	4	5/9/2012	Jason Leseiko	Left in place
Lake Demark	LDM-T09-1003	14880141.44	1771974.235	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Hot Road		NA	-	-	4	5/9/2012	Jason Leseiko	Left in place
Lake Demark	LDM-T09-1004	14880142.13	1771430.393	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	1	NA	-	-	4	5/9/2012	Jason Leseiko	Transferred to PTA
Lake Demark	LDM-T11-1001	14880506.94	1772209.652	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	2	Other		NA	-	-	4	5/9/2012	Jason Leseiko	Left in place
Lake Demark	LDM-T12-1001	14880491.67	1771411.934	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable		NA	-	-	2	5/9/2012	Jason Leseiko	Left in place
Lake Demark	LDM-T12-1002	14880464.53	1771779.236	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Cable		NA	-	-	2	5/9/2012	Jason Leseiko	Left in place
Lake Demark	LDM-T12-1003	14880548.26	1772438.55	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag		NA	-	-	4	5/9/2012	Jason Leseiko	Left in place
Lake Demark	LDM-T12-1004	14880523.2	1772518.746	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	3	Slag		NA	-	-	4	5/9/2012	Jason Leseiko	Left in place
Lake Demark	LDM-T13-1001	14880646.94	1772501.505	Mag & Dig	Analog	White's XLT	Cultural Debris	Asphalt	1	Asphalt		NA	-	-	0	5/9/2012	Jason Leseiko	Left in place
Lake Demark	LDM-T13-1002	14880590.98	1772258.88	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag		NA	-	-	4	5/9/2012	Jason Leseiko	Left in place
Lake Demark	LDM-T13-1003	14880635.17	1771678.925	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	2	NA	-	-	4	5/9/2012	Jason Leseiko	Transferred to PTA
Lake Demark	LDM-T13-1004	14880631.34	1771645.822	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire	0.1	NA	-	-	3	5/9/2012	Jason Leseiko	Transferred to PTA
Lake Demark	LDM-T13-1005	14880642.12	1771618.155	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.5	NA	-	-	3	5/9/2012	Jason Leseiko	Transferred to PTA
Lake Demark	LDM-T13-1006	14880623.58	1771557.524	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Railway		NA	-	-	0	5/9/2012	Jason Leseiko	Left in place
Lake Demark	LDM-T14-1101	14880727.27	1771871.663	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Railroad Spike	0.5	NA	-	-	0	5/24/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T14-1102	14880795.48	1772357.141	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Debris too large to clear.		NA	-	-	1	5/24/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-T15-1101	14880964.29	1772590.861	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	0	5/24/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-T15-1102	14880920.38	1772552.457	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Debris too large to clear.		NA	-	-	0	5/24/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-T15-1103	14880797.16	1771998.264	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Propeller	15	NA	-	-	0	5/24/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T16-1101	14881036.45	1772466.243	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.1	NA	-	-	6	5/24/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T16-1102	14881080.31	1772493.608	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	15	NA	-	-	4	5/24/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T16-1103	14881008.18	1772623.747	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Debris too large to clear.		NA	-	-	4	5/24/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-T22-1201	14881762.74	1772738.309	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Steel Gas Can		NA	-	-	3	5/24/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-T24-1001	14882015.96	1773087.491	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	0	5/27/2012	Eric Kidder	Left in place
Lake Demark	LDM-T26-1001	14882227.95	1773221.58	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	4	Metal Scrap	2	NA	-	-	0	5/27/2012	Eric Kidder	Transferred to PTA
Lake Demark	LDM-T29-1201	14882462.24	1772110.638	Mag & Dig	Analog	White's XLT	Munitions Debris	Projectile	1	152 mm Projectile (Practice)	20	NA	-	-	0	5/30/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Lake Demark	LDM-T30-1001	14882634.62	1773655.471	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	5	NA	-	-	0	5/27/2012	Eric Kidder	Transferred to PTA
Lake Demark	LDM-T31-1001	14882810.39	1773828.402	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Debris too large to clear.		NA	-	-	0	5/27/2012	Eric Kidder	Left in place
Lake Demark	LDM-T31-1002	14882828.32	1773775.857	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	0	5/27/2012	Eric Kidder	Transferred to PTA
Lake Demark	LDM-T31-1003	14882817.22	1773745.552	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	2	5/27/2012	Eric Kidder	Transferred to PTA
Lake Demark	LDM-T34-1101	14883205.34	1774116.043	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Debris too large to clear.		NA	-	-	0	5/23/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-T39-1101	14883811.91	1773814.58	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.	5	NA	-	-	0	5/18/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-T41-1101	14878655.91	1775356.001	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil	0.02	NA	-	-	3	4/29/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T41-1102	14878732.4	1775355.576	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	0	4/29/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T41-1103	14878867.48	1775412.794	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	0	4/29/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T42-1101	14878541.07	1775008.784	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	1	4/29/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T43-1101	14878495.74	1774716.396	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	3	4/29/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T43-1102	14878850.52	1774984.972	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Bolt	0.1	NA	-	-	4	4/29/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T43-1103	14879362.19	1775302.361	Mag & Dig	Analog	White's XLT	Cultural Debris	Aluminum	1	Aluminum	0.1	NA	-	-	3	4/29/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T44-1101	14878636.67	1774516.832	Mag & Dig	Analog	White's XLT	Geology	Hot rock	2	Hot Rocks Removed From Hole, Hole Cleared		NA	-	-	3	4/29/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T44-1102	14878443.35	1774465.454	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	2	Can	0.02	NA	-	-	0	4/29/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T44-1103	14878443.35	1774465.454	Mag & Dig	Analog	White's XLT	Cultural Debris	Construction Debris	1	Large Steel Washer	0.1	NA	-	-	3	4/29/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T45-1101	14878763.24	1774353.244	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	2	4/29/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T47-1101	14878460.84	1773678.53	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Wire		NA	-	-	0	4/28/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-T48-1101	14878287.51	1773287.452	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	0	4/28/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-T48-1102	14878331.44	1773328.622	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	2	Foil		NA	-	-	0	4/28/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-T50-1101	14878777.84	1773041.805	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	4	4/29/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T51-1101	14879196.77	1773056.063	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	3	4/29/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T51-1102	14878977.4	1772902.671	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	1	4/29/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T52-1101	14878394.14	1772143.893	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	1	4/28/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-T52-1102	14878401.53	1772163.175	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.02	NA	-	-	1	4/28/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T52-1103	14878621.28	1772385.598	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	3	4/29/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T53-1101	14878396.9	1771980.991	Mag & Dig	Analog	White's XLT	Cultural Debris	Concrete	1	Concrete		NA	-	-	0	4/28/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-T53-1102	14878338.44	1771948.18	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can		NA	-	-	0	4/28/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-T54-1101	14878548.98	1771820.036	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	1.5	NA	-	-	1	4/28/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T54-1102	14878673.1	1771871.812	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil		NA	-	-	1	4/28/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-T54-1103	14878684.07	1771880.034	Mag & Dig	Analog	White's XLT	Cultural Debris	Concrete	1	Concrete		NA	-	-	0	4/28/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-T55-1101	14878807.06	1771724.762	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	1	4/28/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T55-1102	14878755.97	1771705.715	Mag & Dig	Analog	White's XLT	Cultural Debris	Foil	1	Foil		NA	-	-	0	4/28/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-T55-1103	14878744.98	1771694.731	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	0.5	NA	-	-	1	4/28/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T55-1104	14878507.09	1771483.445	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	1	4/28/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T55-1105	14878514.33	1771475.126	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can		NA	-	-	1	4/28/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-T55-1106	14878477.75	1771444.954	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Slag		NA	-	-	1	4/28/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-T55-1107	14878419.39	1771428.709	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	1	4/28/2012	Rick Shellenbarger	Transferred to PTA
Lake Demark	LDM-T56-1101	14878699.37	1771344.365	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe		NA	-	-	0	4/28/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-T56-1102	14878717.63	1771352.546	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	2	Can		NA	-	-	0	4/28/2012	Rick Shellenbarger	Left in place
Lake Demark	LDM-T56-1103	14878757.73	1771360.61	Mag & Dig	Analog	White's XLT	Cultural Debris	Concrete	3	Concrete		NA	-	-	0	4/28/2012	Rick Shellenbarger	Left in place

Project Name:	Picatinny Arsenal	Geophysical Contractor:	WESTON
Project Location:	Picatinny, NJ	Project Geophysicist:	Ryan Steigerwalt
Date:	1/18/2013	Site Geophysicist:	Paul Novak
Coordinate System:	UTM 18N		
MRS:	Lakes (Lake Denmark)	USACE Geophysicist:	Megan Garrett

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Lake Denmark	LD-01	14879310.7	1771654.251	Channel 3		Fisher Underwater Metal detector Model 1280-X	Munitions Debris	Mortar	1	60mm Practice Mortar (Fuzed / Fired) M49A28	1.360777	NA	-	-	NA	11/12/2012	N. Figeac	Verified as MDAS/Transferred for disposal
Lake Denmark	LD-02	14879302.49	1772181.916	Channel 3		Fisher Underwater Metal detector Model 1280-X	No Contact		1	No Find, Audible response, heavey weeds Deep Fine Silt, Anomaly not found	0	NA	-	-	NA	11/11/2012	N. Figeac	NA
Lake Denmark	LD-04	14879916.64	1773570.416	Channel 3		Fisher Underwater Metal detector Model 1280-X	Cultural Debris	steel can	1	Schaefer steel can	0	NA	-	-	NA	11/12/2012	N. Figeac	Transferred to PTA
Lake Denmark	LD-05	14880868.3	1773127.16	Channel 3		Fisher Underwater Metal detector Model 1280-X	No Contact		1	Audible response, anomaly could not be found	0	NA	-	-	NA	11/11/2012	N. Figeac	NA
Lake Denmark	LD-06	14880034.1	1775416.273	Channel 3		Fisher Underwater Metal detector Model 1280-X	No Contact		1	Audible response, anomaly could not be found, 1.5ft of thick grass	0	NA	-	-	NA	11/11/2012	N. Figeac	NA
Lake Denmark	LD-07	14880994.85	1774738.818	Channel 3		Fisher Underwater Metal detector Model 1280-X	No Contact		1	No contact, depth of water was 1.5 ft but no Contact	0	NA	-	-	NA	11/11/2012	N. Figeac	NA
Lake Denmark	LD-08	14881121.94	1774477.092	Channel 3		Fisher Underwater Metal detector Model 1280-X	No Contact		1	No Contact, Water depth 1.5 ft with thick grasses	0	NA	-	-	NA	11/11/2012	N. Figeac	NA
Lake Denmark	LD-09	14881574.12	1774351.932	Channel 3		Fisher Underwater Metal detector Model 1280-X	No Contact		1	No Contact, Water depth 1.5 ft with thick grasses	0	NA	-	-	NA	11/11/2012	N. Figeac	NA
Lake Denmark	LD 10	14881405.25	1773597	Channel 3		Fisher Underwater Metal detector Model 1280-X	No Contact		1	No Contact, New target between LD09 & LD05	0	NA	-	-	NA	11/11/2012	N. Figeac	NA

Project Name:	Picatinny Arsenal	Geophysical Contractor:	WESTON
Project Location:	Picatinny, NJ	Project Geophysicist:	Ryan Steigerwalt
Date:	7/11/2012	Site Geophysicist:	Paul Novak
Coordinate System:	UTM 18N		
MRS:	Lakes (Picatinny Lake)	USACE Geophysicist:	Megan Garrett

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Picatinny Lake	Picatinny Lake Banks-1101	14873288.31	1763249.759	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Manhole		NA	-	-	0	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1102	14873332.22	1763288.198	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	4	5/19/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1103	14873441.83	1763356.671	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	NA	-	-	2	5/19/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1104	14873752.13	1763498.678	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	2	5/19/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1105	14873792.35	1763528.848	Mag & Dig	Analog	White's XLT	Cultural Debris	Cultural Feature	1	Grounding Rod		NA	-	-	6	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1106	14873971.34	1763632.867	Mag & Dig	Analog	White's XLT	Cultural Debris	Cultural Feature	1	Grounding Rod		NA	-	-	6	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1107	14874169.04	1763833.43	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	0.5	NA	-	-	2	5/19/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1108	14874122.33	1763957.926	Mag & Dig	Analog	White's XLT	Cultural Debris	Cultural Feature	1	Steam Valve		NA	-	-	0	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1109	14874016.74	1763963.989	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.1	NA	-	-	2	5/19/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1110	14874016.74	1763963.989	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	0	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1111	14874016.74	1763963.989	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Debris too large to clear.		NA	-	-	0	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1112	14873893.01	1763983.949	Mag & Dig	Analog	White's XLT	Cultural Debris	Concrete	1	Debris too large to clear.		NA	-	-	0	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1113	14873893.01	1763983.949	Mag & Dig	Analog	White's XLT	Cultural Debris	Rebar	1	Debris too large to clear.		NA	-	-	2	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1114	14873849.34	1763989.698	Mag & Dig	Analog	White's XLT	Cultural Debris	Cultural Feature	1	Debris too large to clear.		NA	-	-	0	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1115	14873849.34	1763989.698	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	0.1	NA	-	-	0	5/19/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1116	14873864.14	1764036.564	Mag & Dig	Analog	White's XLT	Cultural Debris	Cultural Feature	1	Debris too large to clear.		NA	-	-	0	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1117	14873865.19	1764240.895	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	2	Can	0.1	NA	-	-	0	5/19/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1118	14873865.19	1764240.895	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Railroad Spike	1	NA	-	-	6	5/19/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1119	14873800.58	1764426.234	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Debris too large to clear.		NA	-	-	0	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1120	14873829.79	1764439.891	Mag & Dig	Analog	White's XLT	Munitions Debris	Other MD	15	Lifting Lugs, 8 Fuze Adapters	15	NA	-	-	12	5/19/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1121	14873829.79	1764439.891	Mag & Dig	Analog	White's XLT	Munitions Debris	Other MD	1	Debris too large to clear. Left in place with Corps approval		NA	-	-	12	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1122	14873837.13	1764450.898	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	0	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1123	14873994	1764499.792	Mag & Dig	Analog	White's XLT	Munitions Debris	Other MD	1	Unknown MD- 57 mm Base Plate	0.5	NA	-	-	4	5/19/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1124	14874004.88	1764491.455	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail	1	Nail	0.01	NA	-	-	6	5/19/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1125	14874037.74	1764507.851	Mag & Dig	Analog	White's XLT	Cultural Debris	Bolt	1	Bolt	0.1	NA	-	-	6	5/19/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1126	14874037.74	1764507.851	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Reinforced Glass		NA	-	-	2	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1127	14874059.61	1764510.503	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Pipe Coupler	1	NA	-	-	6	5/19/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1128	14874110.45	1764482.626	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	4	5/19/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1129	14874110.45	1764482.626	Mag & Dig	Analog	White's XLT	Munitions Debris	Other MD	1	BLU 26 Practice	2	NA	-	-	0	5/19/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1130	14874132.42	1764504.603	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Debris too large to clear.		NA	-	-	0	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1131	14874172.58	1764523.726	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	0	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1132	14874253.15	1764608.91	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Debris too large to clear.		NA	-	-	0	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1133	14874326.31	1764672.046	Mag & Dig	Analog	White's XLT	Cultural Debris	Other	1	Well		NA	-	-	0	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1134	14874519.09	1764621.348	Mag & Dig	Analog	White's XLT	Cultural Debris	Concrete	1	Debris too large to clear.		NA	-	-	0	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1135	14874595.51	1764609.913	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	0	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1136	14874705.44	1764739.124	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	0	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1137	14874800.76	1764860.126	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	3	Debris too large to clear.		NA	-	-	0	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1138	14874830.21	1764920.72	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Debris too large to clear.		NA	-	-	0	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1139	14875005.2	1764952.949	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Debris too large to clear.		NA	-	-	0	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1140	14875034.41	1764966.604	Mag & Dig	Analog	White's XLT	UXO	Projectile	1	Fuzed 37mm Smoke Projectile	1.5	NA	-	-	4	5/19/2012	Rick Shellenbarger	Demolition/Verified as MDAS/Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1141	14875654.04	1765761.367	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	0	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1142	14875624.37	1765659.36	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Debris too large to clear.		NA	-	-	3	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1143	14875624.37	1765659.36	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Debris too large to clear.		NA	-	-	4	5/19/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1144	14875558.16	1765532.69	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	4	Metal Scrap	1	NA	-	-	6	5/19/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1145	14875661.25	1765747.524	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	2	NA	-	-	6	5/20/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1146	14875661.25	1765747.524	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	2	Debris too large to clear.		NA	-	-	0	5/20/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1147	14875827.77	1766251.937	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Debris too large to clear.		NA	-	-	2	5/20/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1148	14876112.12	1766302.914	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Debris too large to clear.		NA	-	-	8	5/20/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1149	14876181.26	1766291.509	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	2 Railroad Spikes and a Metal Plate	2	NA	-	-	6	5/20/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1150	14876228.78	1766324.394	Mag & Dig	Analog	White's XLT	Geology	Hot rock	1	Debris too large to clear.		NA	-	-	6	5/20/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1151	14876276.32	1766360.036	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	4	NA	-	-	1	5/20/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1152	14876190.02	1767268.872	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	6	NA	-	-	6	5/20/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1153	14876186.34	1767260.608	Mag & Dig	Analog	White's XLT	Cultural Debris	Nail Pit	1	Debris too large to clear. Nail Pit.		NA	-	-	4	5/20/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1154	14876149.71	1767222.143	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Debris too large to clear.		NA	-	-	12	5/20/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1155	14876153.21	1767194.515	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Grounding Rod		NA	-	-	0	5/20/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1156	14876021.64	1767106.855	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Railroad Spike and Bolt	1	NA	-	-	0	5/20/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1157	14875996.12	1767104.225	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Debris too large to clear.		NA	-	-	8	5/20/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1158	14875985.11	1767087.719	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	8	5/20/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1159	14875970.55	1767087.795	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	5	Railroad Scrap	2	NA	-	-	12	5/20/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1160	14875952.23	1767068.564	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Sign		NA	-	-	0	5/20/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1161	14875952.23	1767068.564	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Railroad Spike	0.5	NA	-	-	6	5/20/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1162	14875941.32	1767071.382	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Railroad Spike	0.5	NA	-	-	4	5/20/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1163	14875897.59	1767066.09	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Debris too large to clear.		NA	-	-	0	5/20/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1164	14875861.12	1767057.998	Mag & Dig	Analog	White's XLT	Cultural Debris	Concrete	1	Debris too large to clear.		NA	-	-	6	5/20/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1165	14875813.75	1767052.722	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Debris too large to clear.		NA	-	-	6	5/20/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1166	14875813.75	1767052.722	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	4	NA	-	-	6	5/20/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1167	14875689.89	1767047.849	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	4	NA	-	-	6	5/20/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1168	14875675.28	1767039.645	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	4	5/20/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1169	14875627.95	1767042.652	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.1	NA	-	-	0	5/20/2012	Rick Shellenbarger	Transferred to PTA

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Picatinny Lake	Picatinny Lake Banks-1170	14875493.03	1767012.99	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	1	75 ft Piece of Guard Rail		NA	-	-	0	5/20/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1171	14875283.51	1766646.854	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Debris too large to clear.		NA	-	-	0	5/20/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1172	14875170.8	1766683.342	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	0	5/20/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1173	14875152.47	1766661.348	Mag & Dig	Analog	White's XLT	Cultural Debris	Can	1	Can	0.02	NA	-	-	0	5/20/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1174	14875152.46	1766658.587	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	8	5/20/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1175	14875057.35	1766579.008	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	6	5/20/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1176	14875057.35	1766579.008	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	6	5/20/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1177	14874552.8	1766208.88	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Railroad Spike	0.1	NA	-	-	0	5/26/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1178	14874516.01	1766137.279	Mag & Dig	Analog	White's XLT	Cultural Debris	Concrete	1	Foundation		NA	-	-	0	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1179	14874544.95	1766098.472	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Railroad Spike	0.1	NA	-	-	6	5/26/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1180	14874544.87	1766084.666	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Railroad Spike	0.1	NA	-	-	6	5/26/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1181	14874555.68	1766062.522	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Railroad Spike	0.1	NA	-	-	6	5/26/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1182	14874551.52	1765963.137	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	6	5/26/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1183	14874539.24	1765700.884	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	0	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1184	14874572.05	1765709	Mag & Dig	Analog	White's XLT	Munitions Debris	Fuze	5	Hand grenade fuze, Functioned	0.5	NA	-	-	0	5/26/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1185	14874572.05	1765709	Mag & Dig	Analog	White's XLT	Munitions Debris	Fuze	1	Debris too large to clear. Left in place with Corps approval	0.5	NA	-	-	6	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1186	14874572.05	1765709	Mag & Dig	Analog	White's XLT	Munitions Debris	Other MD	1	Grenade Spoon	0.01	NA	-	-	6	5/26/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1187	14874571.95	1765689.67	Mag & Dig	Analog	White's XLT	Munitions Debris	Fuze	7	Grenade Fuze, Functioned	0.1	NA	-	-	4	5/26/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1188	14874571.95	1765689.67	Mag & Dig	Analog	White's XLT	Munitions Debris	Other MD	1	Debris too large to clear. Left in place with Corps approval		NA	-	-	6	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1189	14874590.18	1765692.336	Mag & Dig	Analog	White's XLT	Munitions Debris	Other MD	3	Grenade Fuzes, Functioned and Spoons	0.5	NA	-	-	6	5/26/2012	Rick Shellenbarger	Verified as MDAS/Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1190	14874590.18	1765692.336	Mag & Dig	Analog	White's XLT	Munitions Debris	Other MD	1	Debris too large to clear. Left in place with Corps approval		NA	-	-	6	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1191	14874586.44	1765673.027	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.5	NA	-	-	0	5/26/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1192	14874586.44	1765673.027	Mag & Dig	Analog	White's XLT	Munitions Debris	Fuze	1	Debris too large to clear. Left in place with Corps approval		NA	-	-	6	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1193	14874597.31	1765661.926	Mag & Dig	Analog	White's XLT	Munitions Debris	Fuze	1	Debris too large to clear. Left in place with Corps approval		NA	-	-	4	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1194	14874597.29	1765659.165	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	0	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1195	14874582.58	1765631.632	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Debris too large to clear.		NA	-	-	0	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1196	14874582.58	1765631.632	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	0	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1197	14874564.24	1765606.876	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	1	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1198	14874556.9	1765595.869	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Banding	0.1	NA	-	-	4	5/26/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1199	14874545.88	1765576.595	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	3	NA	-	-	4	5/26/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1200	14874545.88	1765576.595	Mag & Dig	Analog	White's XLT	Cultural Debris	Fencing/Fence Post	2	Debris too large to clear.		NA	-	-	4	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1201	14874538.57	1765573.871	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	1	NA	-	-	6	5/26/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1202	14874498.33	1765538.184	Mag & Dig	Analog	White's XLT	Cultural Debris	Concrete	1	Debris too large to clear.		NA	-	-	0	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1203	14874483.59	1765505.126	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	0	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1204	14874483.59	1765505.126	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Cable Adjuster	2	NA	-	-	0	5/26/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1205	14874446.96	1765466.661	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	0	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1206	14874421.4	1765452.984	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Pipe	8	NA	-	-	6	5/26/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1207	14874461.18	1765397.556	Mag & Dig	Analog	White's XLT	Cultural Debris	Concrete	1	Concrete		NA	-	-	0	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1208	14874457.4	1765372.725	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	4	5/26/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1209	14874428.31	1765381.159	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Survey Stake	4	NA	-	-	6	5/26/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1210	14874370.1	1765392.505	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	0	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1211	14874359.23	1765403.604	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	3	Metal Scrap	3	NA	-	-	6	5/26/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1212	14874359.23	1765403.604	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	6	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1213	14874359.23	1765403.604	Mag & Dig	Analog	White's XLT	Cultural Debris	Pipe	1	Debris too large to clear.		NA	-	-	0	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1214	14874337.49	1765425.806	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Shackle	4	NA	-	-	0	5/26/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1215	14874337.49	1765425.806	Mag & Dig	Analog	White's XLT	Cultural Debris	Barbed-wire	1	Debris too large to clear.		NA	-	-	0	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1216	14874334.12	1765478.288	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	1	NA	-	-	6	5/26/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1217	14874337.95	1765514.167	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	0.1	NA	-	-	6	5/26/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1218	14874250.59	1765522.903	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap		NA	-	-	0	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1219	14874177.78	1765531.562	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	2	Metal Scrap	0.1	NA	-	-	0	5/26/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1220	14874177.64	1765503.953	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	1	Debris too large to clear.		NA	-	-	4	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1221	14874130.36	1765515.24	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	0	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1222	14874130.36	1765515.24	Mag & Dig	Analog	White's XLT	Cultural Debris	Concrete	1	Debris too large to clear.		NA	-	-	6	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1223	14873607.81	1765183.83	Mag & Dig	Analog	White's XLT	Cultural Debris	Cable	1	Debris too large to clear.		NA	-	-	0	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1224	14873328.69	1764732.409	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	0	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1225	14873072.86	1764562.517	Mag & Dig	Analog	White's XLT	Cultural Debris	Wire	1	Debris too large to clear.		NA	-	-	0	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1226	14872941.1	1764436.17	Mag & Dig	Analog	White's XLT	Cultural Debris	Concrete	1	Debris too large to clear.		NA	-	-	0	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1227	14872893.2	1764328.723	Mag & Dig	Analog	White's XLT	Cultural Debris	Cultural Feature	1	Well		NA	-	-	0	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1228	14872669.04	1763940.511	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Debris too large to clear.		NA	-	-	0	5/26/2012	Rick Shellenbarger	Left in place
Picatinny Lake	Picatinny Lake Banks-1229	14872544.21	1763745.087	Mag & Dig	Analog	White's XLT	Cultural Debris	Slag	2	Slag	1	NA	-	-	6	5/26/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1230	14872500.29	1763703.889	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Pin Flag	0.01	NA	-	-	0	5/26/2012	Rick Shellenbarger	Transferred to PTA
Picatinny Lake	Picatinny Lake Banks-1231	14872463.63	1763657.129	Mag & Dig	Analog	White's XLT	Cultural Debris	Metal Scrap	1	Metal Scrap	3	NA	-	-	6	5/26/2012	Rick Shellenbarger	Transferred to PTA

Project Name:	Picatinny Arsenal	Geophysical Contractor:	WESTON
Project Location:	Picatinny, NJ	Project Geophysicist:	Ryan Steigerwalt
Date:	1/18/2013	Site Geophysicist:	Paul Novak
Coordinate System:	UTM 18N		
MRS:	Lakes (Picatinny Lake)	USACE Geophysicist:	Megan Garrett

MRS	Unique Target ID	Northing Coord. (USft)	Easting Coord. (USft)	Channel ID	Response Amplitude (mV)	Reacquisition Instrument	Item Category	Item Type	Quantity	Description	Approx. Weight (lbs)	Offset: Distance (in)	Item Northing Coord. (USft)	Item Easting Coord. (USft)	Depth: Top of Item (in)	Dig Date	Team Leader	Final Disposition
Picatinny Lake	LP-01	14873832.93	1763615.771	Channel 3		Fisher Underwater Metal detector Model 1280-X	Geology	Hot rock	1	Hot Rocks, some large	0	NA	-	-	NA	11/11/2012	N. Figeac	Left in place
Picatinny Lake	LP-02	14873200.17	1764444.503	Channel 3		Fisher Underwater Metal detector Model 1280-X	Cultural Debris	Aluminum	1	Budweiser aluminum can	0.02267962	NA	-	-	NA	11/10/2012	N. Figeac	Transferred to PTA
Picatinny Lake	LP-03	14873080.31	1764468.389	Channel 3		Fisher Underwater Metal detector Model 1280-X	Cultural Debris	Metal Scrap	1	Green Reflective metal lid	0.4535924	NA	-	-	NA	11/10/2012	N. Figeac	Transferred to PTA
Picatinny Lake	LP-04	14874062.91	1764954.739	Channel 3		Fisher Underwater Metal detector Model 1280-X	No Contact		1	No Contact	0	NA	-	-	NA	11/11/2012	N. Figeac	NA
Picatinny Lake	LP-05	14873885.87	1764967.077	Channel 3		Fisher Underwater Metal detector Model 1280-X	No Find		1	No Find, 3 foot thick weeds, Anomaly not found	0	NA	-	-	NA	11/10/2012	N. Figeac	NA
Picatinny Lake	LP-06	14873869.63	1765043.779	Channel 3		Fisher Underwater Metal detector Model 1280-X	No Find		1	No Find, 3 foot thick weeds, Anomaly not found	0	NA	-	-	NA	11/10/2012	N. Figeac	NA
Picatinny Lake	LP-07	14874768.47	1764937.635	Channel 3		Fisher Underwater Metal detector Model 1280-X	UXO	Booster	1	supplemental charge for a 155MM projectile	0.04535924	NA	-	-	NA	11/10/2012	N. Figeac	Verified as MDAS/Transferred for disposal
Picatinny Lake	LP-08	14874520.06	1765504.251	Channel 3		Fisher Underwater Metal detector Model 1280-X	Cultural Debris	Steel Plate	1	Steel plate 3' x 2', item was left in place	0	NA	-	-	NA	11/11/2012	N. Figeac	Transferred to PTA
Picatinny Lake	LP-09	14874706.02	1765378.994	Channel 3		Fisher Underwater Metal detector Model 1280-X	No Find		1	No Find,Audible response, excavated a 3 foot diamater hole 1 foot deep anomaly was not found	0	NA	-	-	NA	11/11/2012	N. Figeac	NA
Picatinny Lake	LP-10	14874808.34	1765472.047	Channel 3		Fisher Underwater Metal detector Model 1280-X	No Find		1	No Find, Audible response, heavy weeds 3 foot deep Anomaly not found	0	NA	-	-	NA	11/11/2012	N. Figeac	NA
Picatinny Lake	LP-11	14874961.77	1766185.152	Channel 3		Fisher Underwater Metal detector Model 1280-X	No Find		1	No Find, Audible response, heavy weeds 3 foot deep Anomaly not found	0	NA	-	-	NA	11/11/2012	N. Figeac	NA
Picatinny Lake	LP-12	14875369.72	1765502.244	Channel 3		Fisher Underwater Metal detector Model 1280-X	No Find		1	No Find, Audible response, heavy weeds 3 foot deep Anomaly not found	0	NA	-	-	NA	11/11/2012	N. Figeac	NA
Picatinny Lake	LP-13	14875297.36	1766000.808	Channel 3		Fisher Underwater Metal detector Model 1280-X	No Find		1	No Find, Audible response, heavy weeds Anomaly not found	0	NA	-	-	NA	11/11/2012	N. Figeac	NA
Picatinny Lake	LP-14	14875396.39	1766150.607	Channel 3		Fisher Underwater Metal detector Model 1280-X	Cultural Debris	Metal Scrap	1	White square that was thin metal	0	NA	-	-	NA	11/11/2012	N. Figeac	Transferred to PTA
Picatinny Lake	LP-15	14875697.03	1766613.339	Channel 3		Fisher Underwater Metal detector Model 1280-X	Cultural Debris	Steel Plate	1	Rusted steel metal 15" x 5"	0.9071847	NA	-	-	NA	11/12/2012	N. Figeac	Transferred to PTA
Picatinny Lake	LP-16	14875812.98	1766589.536	Channel 3		Fisher Underwater Metal detector Model 1280-X	Cultural Debris	Metal Scrap	1	Metal fragments various sizes	0	NA	-	-	NA	11/11/2012	N. Figeac	Transferred to PTA
Picatinny Lake	LP-17	14875891.34	1766852.882	Channel 3		Fisher Underwater Metal detector Model 1280-X	Cultural Debris	Metal Scrap	1	several small metal debris pieces	0	NA	-	-	NA	11/11/2012	N. Figeac	Transferred to PTA
Picatinny Lake	LP-18	14876135.77	1766404.756	Channel 3		Fisher Underwater Metal detector Model 1280-X	No Find		1	No Find, Audible response, heavy weeds, Anomaly not found	0	NA	-	-	NA	11/11/2012	N. Figeac	NA
Picatinny Lake	LP-19	14876320.01	1766771.153	Channel 3		Fisher Underwater Metal detector Model 1280-X	No Find		1	No Find, Audible response, heavy weeds, Anomaly not found	0	NA	-	-	NA	11/11/2012	N. Figeac	NA
Picatinny Lake	LP-20	14872949.2	1763880.581	Channel 3		Fisher Underwater Metal detector Model 1280-X	Geology	Hot rock	1	Large amount of Hot Rocks, Large Rock Out crop	0	NA	-	-	NA	11/10/2012	N. Figeac	Left in place
Picatinny Lake	LP-21	14872997.25	1763109.497	Channel 3		Fisher Underwater Metal detector Model 1280-X	Munitions Debris	Canister	1	expended smoke canister	0.1133981	NA	-	-	NA	11/10/2012	N. Figeac	Verified as MDAS/Transferred for disposal
Picatinny Lake	LP-22	14872418.37	1763448.768	Channel 3		Fisher Underwater Metal detector Model 1280-X	Cultural Debris	Pipe	1	Large 8" steel Pipe with flange, too large to move	22.67962	NA	-	-	NA	11/10/2012	N. Figeac	Left in place
Picatinny Lake	LP 23	14873211.2188	1763446.9762	Channel 3		Fisher Underwater Metal detector Model 1280-X	Munitions Debris	Flare	1	3inch flare base (at Flare Island)	0.1133981	NA	-	-	NA	11/11/2012	N. Figeac	Verified as MDAS/Transferred for disposal
Picatinny Lake	LP-24	14872554.98	1763311.42	Channel 3		Fisher Underwater Metal detector Model 1280-X	No Find		1	No Find, Audible response, Anomaly not found	0	NA	-	-	NA	11/10/2012	N. Figeac	NA

APPENDIX I

PHOTOGRAPH LOG

1926 EXPLOSION RADIUS – OFF-POST MRS

Photo No. 01	**Date:** 4/26/2012	
Description: Metal scrap pit located at 26OR-068 in the 1926 Off Post MRS.		

Photo No. 02	**Date:** 4/27/2012	
Description: Boulder field and rough terrain located at 26OR-072 in the 1926 Off Post MRS.		

Photo No. 03	**Date:** 4/27/2012
Description: Cultural debris located at 26OR-072 in the 1926 Off Post MRS	

Photo No. 04	**Date:** 4/27/2012
Description: UXO Technicians performing mag and dig, located at 26OR-072 in the 1926 Off Post MRS	

Photo No. 05	**Date:** 4/27/2012	
Description: A warning sign located near 26OR-072 in the 1926 Off Post MRS		

Photo No. 06	**Date:** 4/27/2012	
Description: Grid 26OR-073 located in the 1926 Off Post MRS		

Photo No. 07	**Date:** 4/27/2012	
Description: Trash pit located at 26OR-073 in the 1926 Off Post MRS		

Photo No. 08	**Date:** 4/27/2012	
Description: UXO Technicians performing mag and dig at 26OR-074 in the 1926 Off Post MRS		

Photo No. 09	**Date:** 4/27/2012	
Description: UXO Technician recording dig results at 26OR-074 in the 1926 Off Post MRS		

Photo No. 10	**Date:** 5/09/2012	
Description: UXO Technicians performing mag and dig at 26OR-075 in the 1926 Off Post MRS		

Photo No. 11	**Date:** 5/09/2012	
Description: UXO Technician recording dig results at 26OR-075 in the 1926 Off Post MRS		
Photo No. 12	**Date:** 5/10/2012	
Description: UXO Technicians performing mag and dig at 26OR-075 in the 1926 Off Post MRS		

1926 EXPLOSION RADIUS MRS

Photo No. 01	**Date:** 12/15/2011	
Description: Geophysical technician collecting quality control (QC) data at the IVS location.		

Photo No. 02	**Date:** 12/15/2011	
Description: Overview of IVS layout and DGM QC location.		

Photo No. 03	**Date:** 12/15/2011	
Description: Geophysical technician collecting data at the IVS.		

Photo No. 04	**Date:** 12/15/2011	
Description: 50’ x’50’ grid lanes setup for DGM data collection.		

Photo No. 05	**Date:** 12/15/2011	
Description: 50’ x’50’ grid lanes setup for DGM data collection.		

Photo No. 06	**Date:** 12/15/2011	
Description: Geophysical technician setting grid control for DGM data collection.		

Photo No. 07	**Date:** 12/15/2011	
Description: Geophysical technician collecting data within a 1926 Explosion Radius MRS DGM grid.		

Photo No. 08	**Date:** 12/15/2011	
Description: Geophysical Technician entering coordinate data during a DGM survey in 1926 Explosion Radius MRS.		

Photo No. 09	**Date:** 4/04/2012	
Description: UXO Technician performing mag and dig in a 1926 Explosion Radius MRS grid.		

Photo No. 10	**Date:** 4/06/2012	
Description: 6" Naval projectile, located in a 1926 Explosion Radius MRS grid.		

Photo No. 11	**Date:** 4/06/2012	
Description: Munitions debris, located in a 1926 Explosion Radius MRS grid.		

Photo No. 12	**Date:** 4/05/2012	
Description: Munitions and cultural debris located in a 1926 Explosion Radius MRS grid.		

Photo No. 13	**Date:** 4/14/2012	
Description: 105mm HEAT round located in a 1926 Explosion Radius MRS grid.		

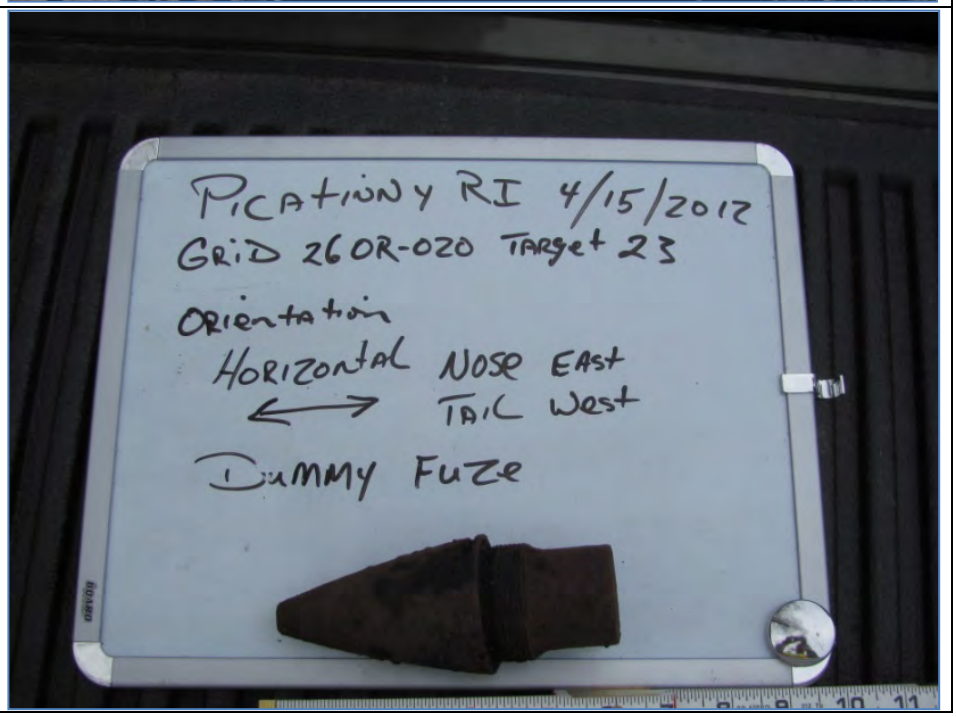
Photo No. 14	**Date:** 4/15/2012	
Description: Munitions debris, dummy fuze, located in a 1926 Explosion Radius MRS grid.		

Photo No. 15	**Date:** 4/22/2012	
Description: UXO Technicians digging on reacquired targets in a DGM grid the 1926 Explosion Radius MRS.		

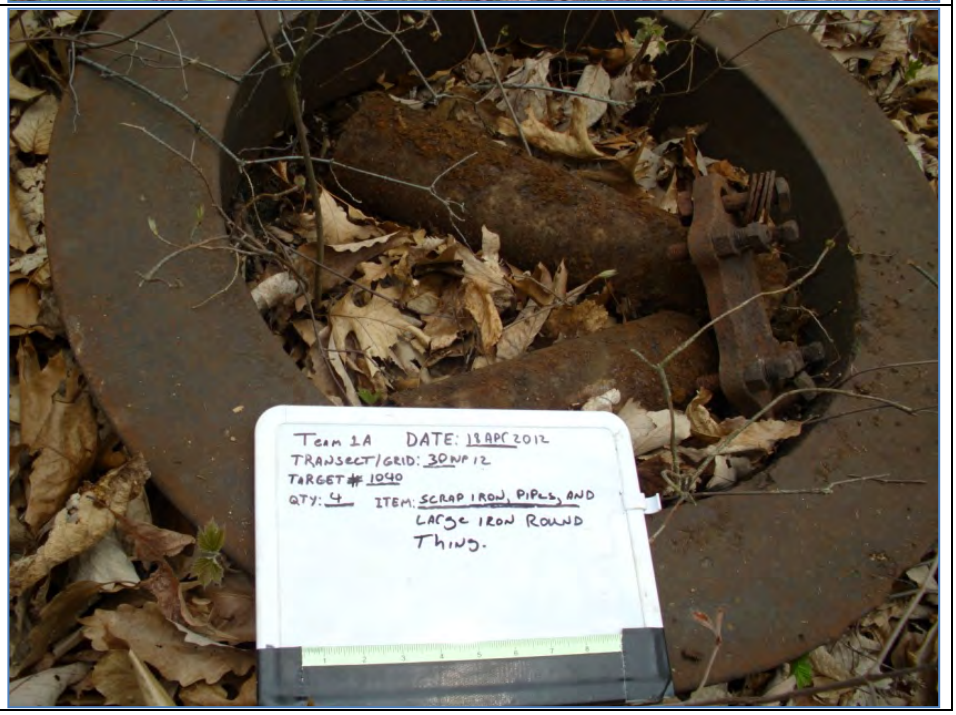
Photo No. 16	**Date:** 4/18/2012	
Description: Cultural debris, located in a 1926 Explosion Radius MRS grid.		

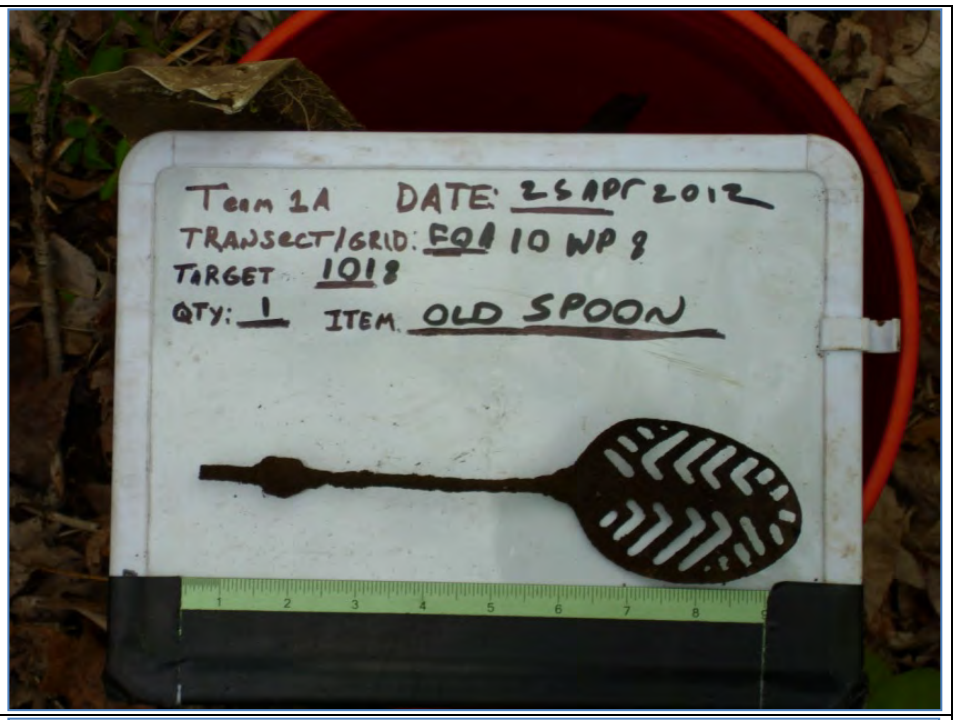
Photo No. 17	**Date:** 4/25/2012	
Description: Possible antique spoon located during intrusive activities.		

Photo No. 18	**Date:** 4/25/2012	
Description: UXO Technicians digging on reacquired targets in a DGM grid in the1926 Explosion Radius MRS.		

Photo No. 19	**Date:** 4/26/2012	
Description: Cultural debris, located in a 1926 Explosion Radius MRS grid.		
Photo No. 20	**Date:** 4/27/2012	
Description: UXO Technicians using sand mitigation during demo activities.		

Photo No. 21	**Date:** 4/27/2012	
Description: Munitions debris from a 105mm, located in a 1926 Explosion Radius MRS grid.		

Photo No. 22	**Date:** 4/28/2012	
Description: UXO Technicians entering item information into a PDA.		

Photo No. 23	**Date:** 5/02/2012
Description: MPPEH; 3” Stokes Mortar located in a 1926 Explosion Radius MRS grid.	

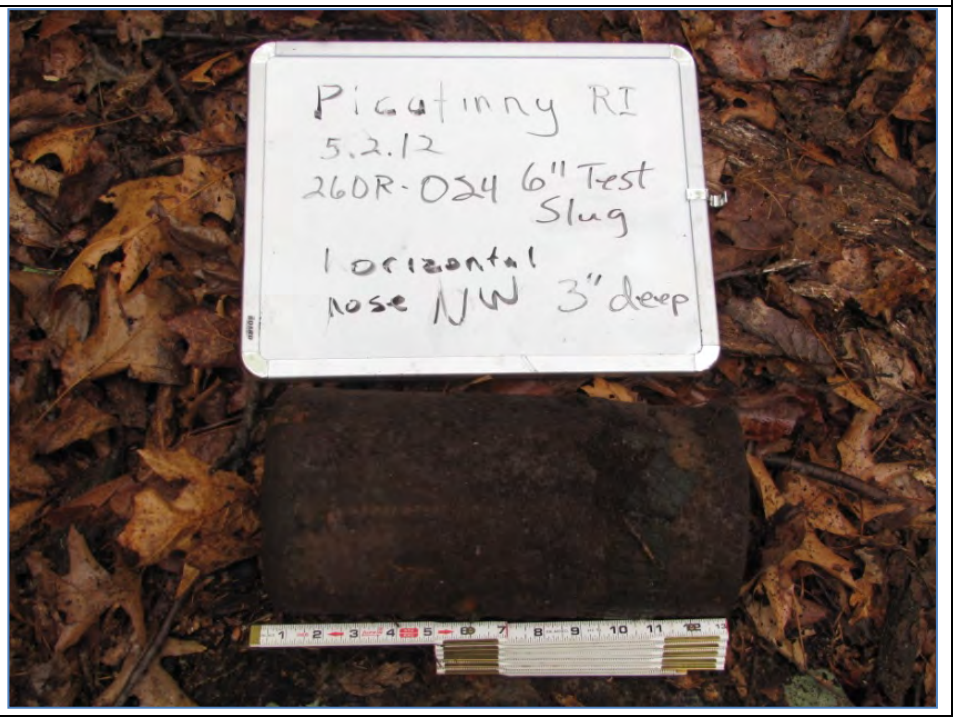
Photo No. 24	**Date:** 5/02/2012
Description: Munitions debris; a 6” test slug located in a 1926 Explosion Radius MRS grid.	

Photo No. 25	**Date:** 5/03/2012
Description: UXO Technicians performing mag and dig intrusive activities in a 1926 Explosion Radius MRS grid.	

FORMER OPERATIONAL AREAS MRS

Photo No. 01	**Date:**	
Description: Geophysical technician collecting EM31 quality control data.		

Photo No. 02	**Date:**	
Description: Geophysical technician collecting EM31 data in the Former Operational Areas MRS		

Photo No. 03	**Date:**	
Description: Geophysical technician collecting EM31 data in the Former Operational Areas MRS.		
Photo No. 04	**Date:** 2/02/2012	
Description: Geophysical Technicians collecting EM61 data in the Former Operational Area MRS.		

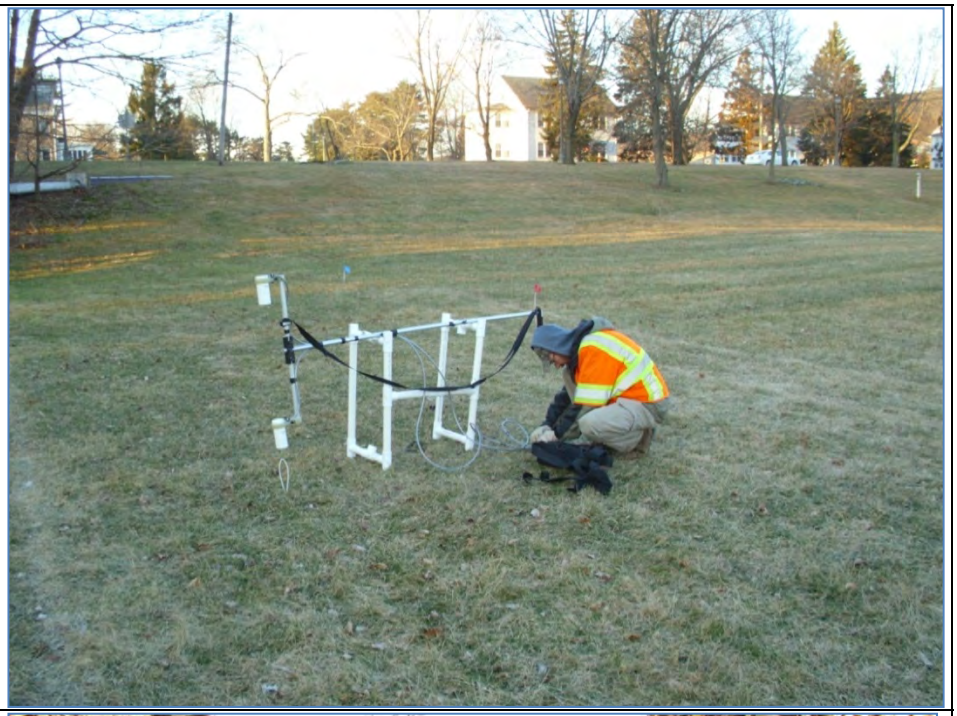
Photo No. 05	**Date:** 1/26/2012	
Description: Geophysical Technician collecting 858 magnetometer QC data at the IVS area.		

Photo No. 06	**Date:** 4/05/2012	
Description: 81mm mortars, practice, located along a transect in the Former Operational Area MRS.		

Photo No. 07	**Date:** 4/06/2012	
Description: Small arms ammunition, blanks, located along a transect in the Former Operational Area MRS.		

Photo No. 08	**Date:** 4/11/2012	
Description: Munitions debris, 22mm sub caliber, located along a transect in the Former Operational Area MRS.		

Photo No. 09	**Date:** 4/11/2012	
Description: Two 81mm mortars (fuzed), located along a transect in the Former Operational Area MRS.		

Photo No. 10	**Date:** 4/12/2012	
Description: 81mm mortar, practice, located along a transect in the Former Operational Area MRS.		

Photo No. 11	**Date:** 4/06/2012	
Description: 60mm Mortar, located along a transect in the Former Operational Area MRS.		

Photo No. 12	**Date:** 4/14/2012	
Description: Cultural debris, trash pit, located along a transect in the Former Operational Area MRS.		

Photo No. 13	**Date:** 4/18/2012
Description: UXO Technicians performing mag and dig along a transect in the Former Operational Areas MRS.	
Photo No. 14	**Date:** 4/19/2012
Description: A quality control seed item located during intrusive activities.	

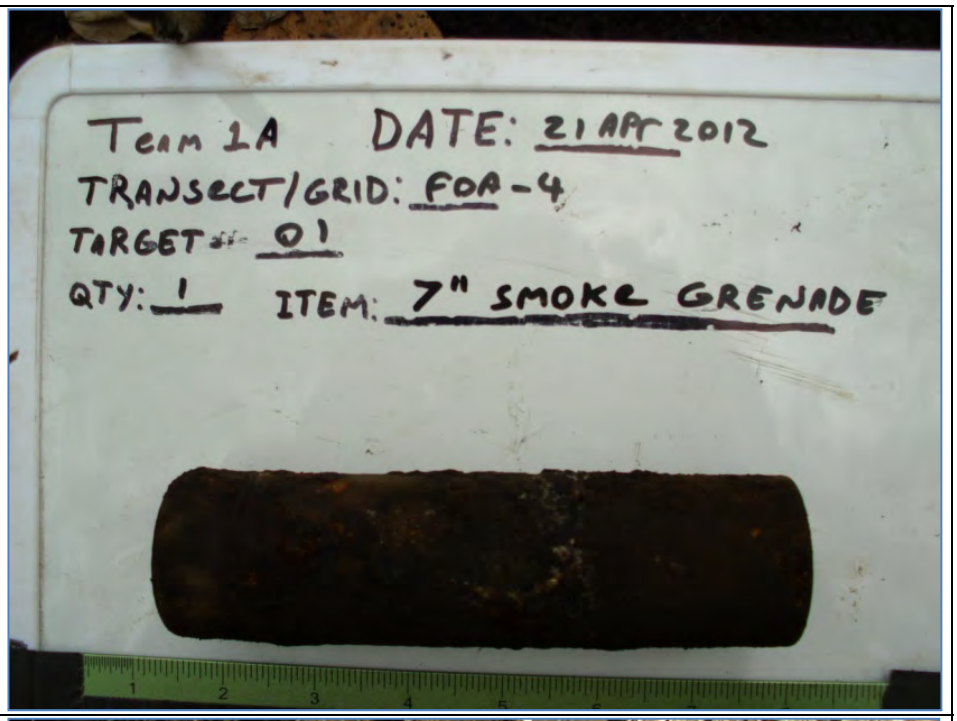
Photo No. 15	**Date:** 4/21/2012	
Description: Munitions Debris (7 inch smoke grenade), located along a transect in the Former Operational Area MRS.		

Photo No. 16	**Date:** 4/29/2012	
Description: 81mm mortars located along a transect in the Former Operational Areas MRS.		

Photo No. 17	**Date:** 4/29/2012
Description: Rifle grenade located along a transect in the Former Operational Areas MRS.	

Photo No. 18	**Date:** 4/29/2012
Description: 60mm mortar located along a transect in the Former Operational Areas MRS.	

Photo No. 19	**Date:** 4/29/2012	
Description: Team photo of the field crew.		

Photo No. 20	**Date:** 5/03/2012	
Description: Munitions debris; insert anti-tank mine located along a transect in the Former Operational Areas MRS.		

Photo No. 21	**Date:** 5/03/2012
Description: MPPEH; 3.5” Rocket located along a transect in the Former Operational Areas MRS.	

Photo No. 22	**Date:** 5/03/2012
Description: Munitions debris; potential missile parts located along a transect in the Former Operational Areas MRS.	

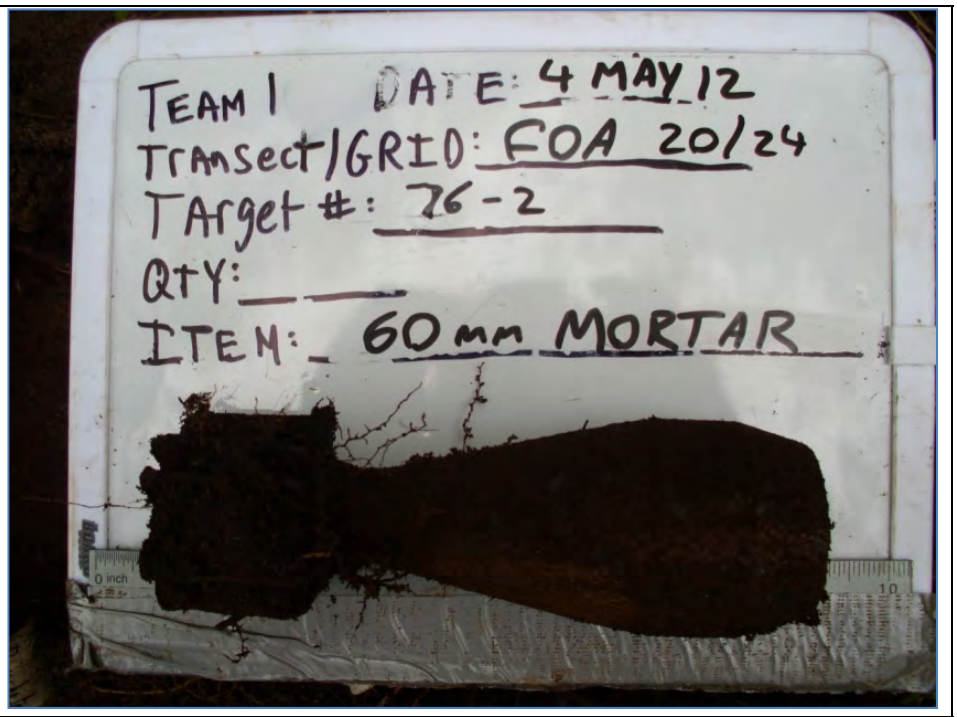
Photo No. 23	**Date:** 5/04/2012	
Description: MPPEH; 60mm mortar located along a transect in the Former Operational Areas MRS.		

Photo No. 24	**Date:** 5/04/2012	
Description: Weston Geophysicist entering data into a Personal Data Assistant (PDA).		

Photo No. 25	**Date:** 5/05/2012	
Description: MPPEH; BLU 3b sub-munitions located along a transect in the Former Operational Areas MRS		
Photo No. 26	**Date:** 5/09/2012	
Description: UXO Technicians performing mag and dig intrusive activities along a transect in the Former Operational Area MRS.		

Photo No. 27	**Date:** 5/09/2012	
Description: Munitions Debris; powder can located in the Former Sanitary Landfill.		

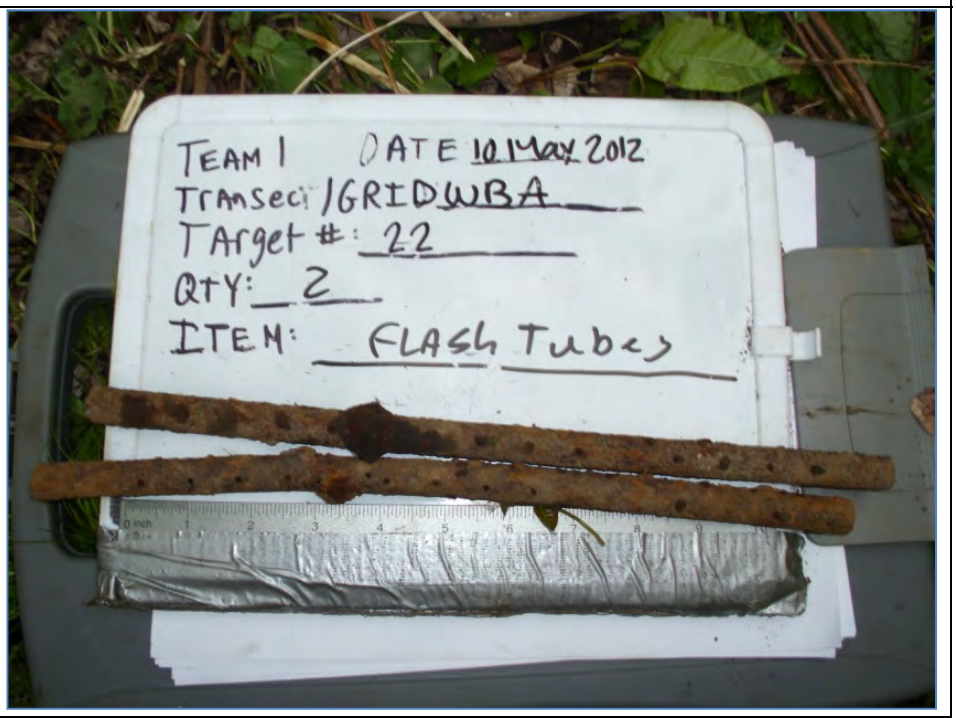
Photo No. 28	**Date:** 5/10/2012	
Description: Munitions Debris; flashtubes located in the Waste Burial Area.		

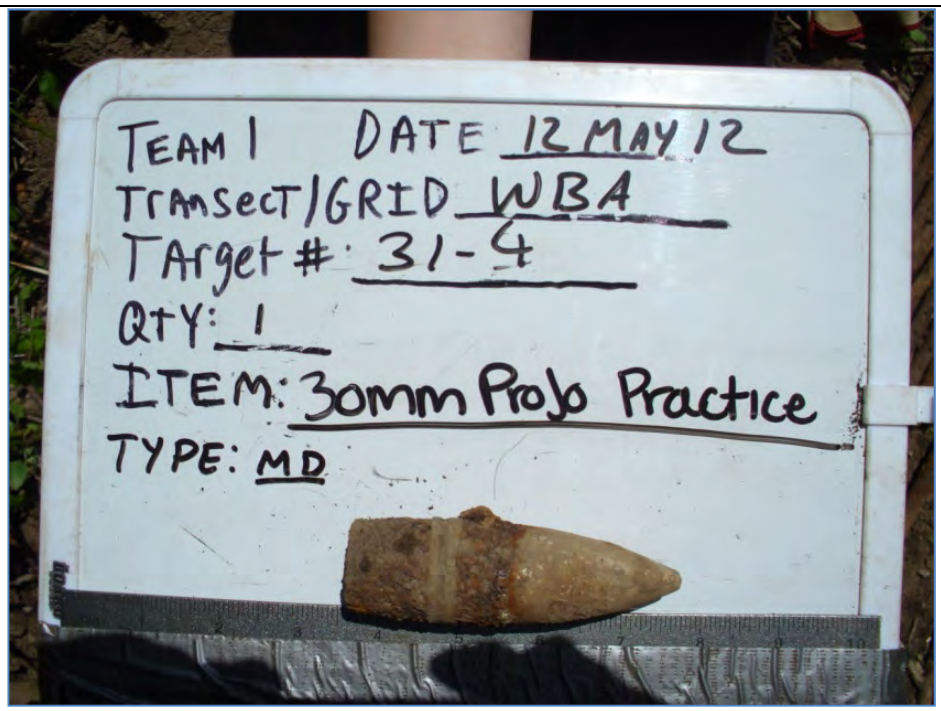
Photo No. 29	**Date:** 5/12/2012
Description: Munitions Debris; 30mm Projectile, practice, located in the Waste Burial Area.	

Photo No. 30	**Date:** 5/11/2012
Description: UXO Technicians investigated a target anomaly along a transect in the Former Operational Area MRS.	

Photo No. 31	**Date:** 5/12/2012	
Description: Munitions Debris; 3.5” rocket motors located in the Waste Burial Area.		

Photo No. 32	**Date:** 5/13/2012	
Description: Munitions Debris; internal fuze components located in the Waste Burial Area.		

Photo No. 33	**Date:** 5/13/2012	
Description: Munitions Debris; pop-flare located in the Site 20/24 Area.		

Photo No. 34	**Date:** 5/13/2012	
Description: MPPEH; 81mm mortar, practice, located in the Site 20/24 Area.		

Photo No. 35	**Date:** 5/16/2012	
Description: Munitions Debris; pop-flare located in the Site 20/24 Area.		

Photo No. 36	**Date:** 5/16/2012	
Description: MPPEH; 60mm mortar, practice, located in the Site 20/24 Area.		

Photo No. 37	**Date:** 5/16/2012	
Description: MPPEH; 81mm mortar, practice, located in the Site 20/24 Area.		

Photo No. 38	**Date:** 5/16/2012	
Description: DMM; 60mm mortar, HE, located in the Site 20/24 Area.		

Photo No. 39	**Date:** 5/16/2012	
Description: Munitions Debris; 40mm cartridges, located in the Site 20/24 Area.		

Photo No. 40	**Date:** 5/16/2012	
Description: UXO Technicians investigated a target anomaly located in the Site 20/24 Area.		

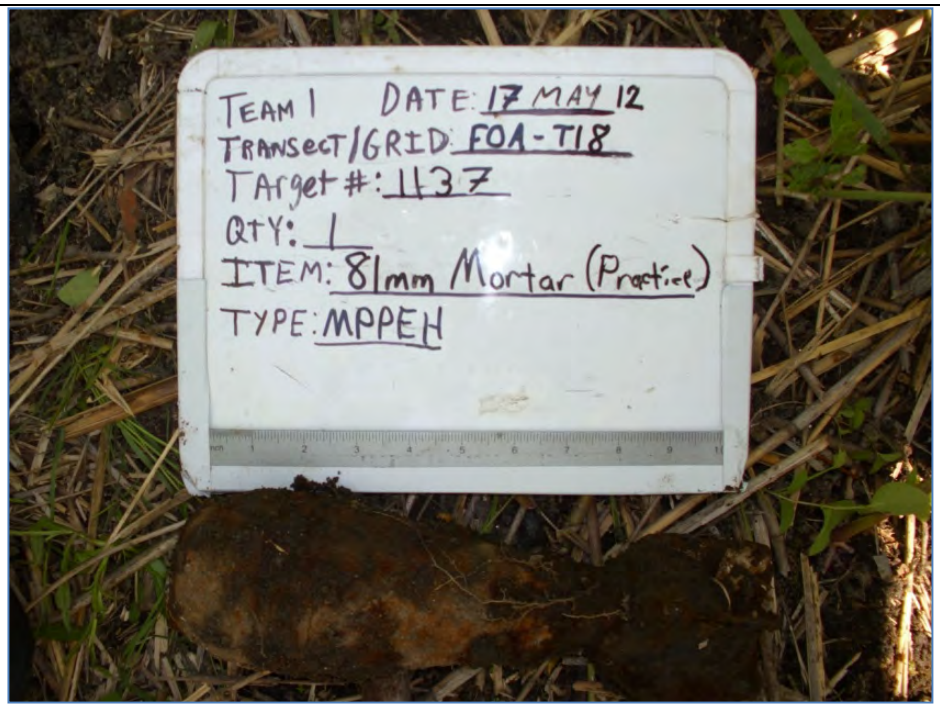
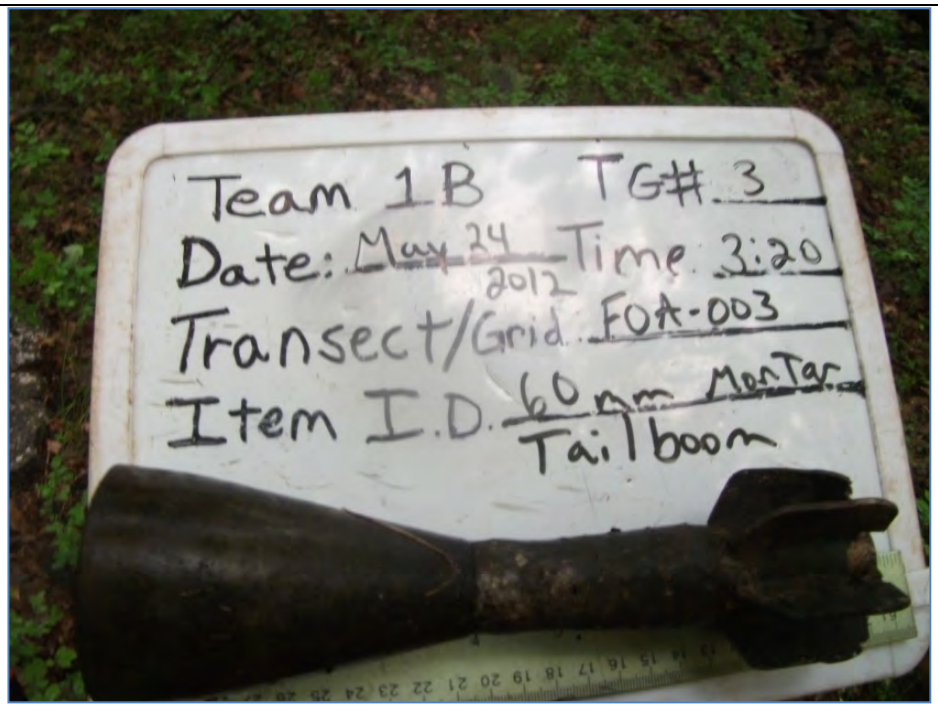
Photo No. 41	**Date:** 5/17/2012	
Description: MPPEH; 81mm mortar, practice, located along a transect in the Former Operational Areas MRS.		

Photo No. 42	**Date:** 5/24/2012	
Description: Munitions Debris: 60mm mortar, practice, located in a grid in the Former Operational Areas MRS.		

GREEN POND MRS

Photo No. 01	**Date:** 4/15/2012	
Description: UXO Technicians performing mag and dig along the bank of Green Pond Brook.		

Photo No. 02	**Date:** 4/15/2012	
Description: Munitions debris; tracer elements, located along the banks of Green Pond MRS.		

Photo No. 03	**Date:** 4/15/2012	
Description: Local wildlife encountered during intrusive activities.		

Photo No. 04	**Date:** 4/21/2012	
Description: Cultural Debris; Trash pit located along a transect in the Green Pond MRS.		

Photo No. 01	**Date:** 4/15/2012	
Description: Munitions debris; 35mm projectile, located along the banks of Green Pond MRS.		

Photo No. 02	**Date:** 4/15/2012	
Description: Munitions debris; fuze and booster end caps, located along the banks of Green Pond MRS.		

Photo No. 01	**Date:** 4/15/2012	
Description: UXO Technician performing mag and dig along the bank of Green Pond Brook.		

Photo No. 02	**Date:** 4/15/2012	
Description: Munitions debris; fuze well adapter, located along the banks of Green Pond MRS.		

Photo No. 01	**Date:** 4/15/2012	
Description: UXO Technician investigating a DGM target along the bank of Green Pond Brook.		

Photo No. 02	**Date:** 4/15/2012	
Description: Cultural debris; trash pit, located along the banks of Green Pond MRS.		

INACTIVE MUNITIONS WASTE PIT MRS

Photo No. 01	**Date:** 1/30/2012
Description: Burn cage, debris piles, and structures present onsite during the EM31-MK2 transects at the Inactive Munitions Waste Pit MRS.	

Photo No. 02	**Date:** 1/30/2012
Description: Geophysical Technician conducting EM31-MK2 transects at the Inactive Munitions Waste Pit MRS.	

Photo No. 03	**Date:** 5/22/2012
Description: IRP trenching location at the Inactive Munitions Waste Pit MRS.	
Photo No. 04	**Date:** 5/22/2012
Description: IRP trenching activities at the Inactive Munitions Waste Pit MRS.	

Photo No. 05	**Date:** 5/22/2012
Description: IRP trenching activities at the Inactive Munitions Waste Pit MRS.	
Photo No. 06	**Date:** 5/22/2012
Description: Munitions items identified during IRP trenching activities at the Inactive Munitions Waste Pit MRS.	

Photo No. 07	**Date:** 5/22/2012
Description: Crushed container unearthed during IRP trenching activities at the Inactive Munitions Waste Pit MRS.	

Photo No. 08	**Date:** 5/22/2012
Description: Crushed drum unearth during IRP trenching activities at the Inactive Munitions Waste Pit MRS.	

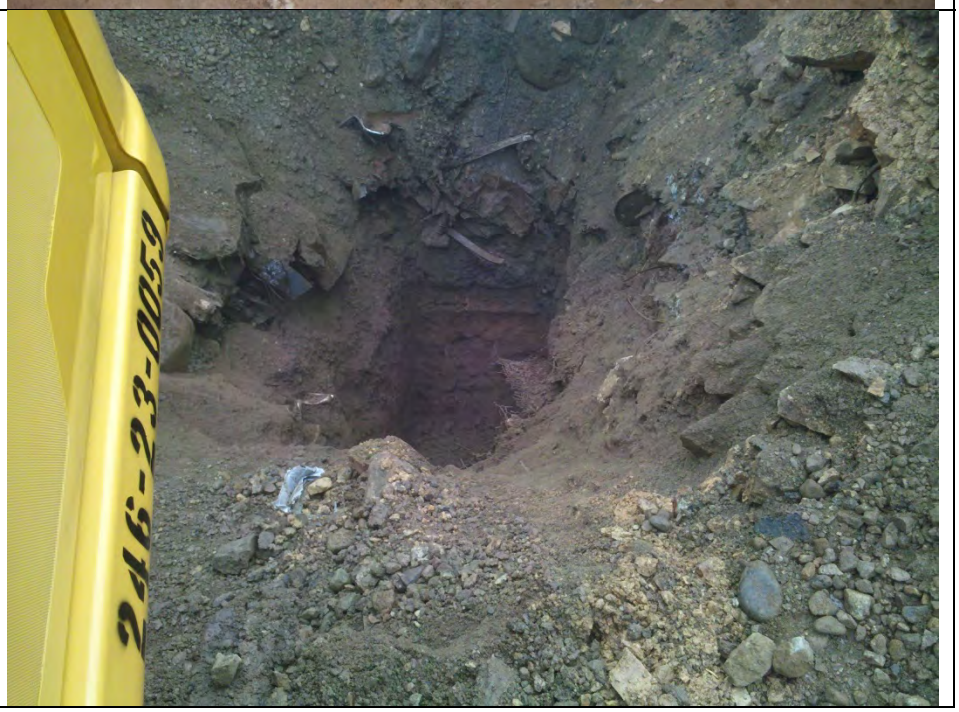
Photo No. 09	**Date:** 5/22/2012
Description: Munitions items identified during IRP trenching activities at the Inactive Munitions Waste Pit MRS.	
Photo No. 10	**Date:** 5/22/2012
Description: IRP trenching activities at the Inactive Munitions Waste Pit MRS.	

Photo No. 11	**Date:** 5/24/2012
Description: Munitions items identified during IRP trenching activities at the Inactive Munitions Waste Pit MRS.	

Photo No. 12	**Date:** 5/24/2012
Description: Munitions items identified during IRP trenching activities at the Inactive Munitions Waste Pit MRS.	

Photo No. 13	**Date:** 5/24/2012	
Description: Munitions items identified during IRP trenching activities at the Inactive Munitions Waste Pit MRS.		

Photo No. 14	**Date:** 5/24/2012	
Description: Munitions items identified during IRP trenching activities at the Inactive Munitions Waste Pit MRS.		

Photo No. 15	**Date:** 5/24/2012	
Description: Bulk cultural debris (drums, scrap metal, wire, car parts, etc.) identified during IRP trenching activities at the Inactive Munitions Waste Pit MRS.		

Photo No. 16	**Date:** 5/24/2012	
Description: Fuzes on and in a drum identified during IRP trenching activities at the Inactive Munitions Waste Pit MRS.		

Photo No. 17	**Date:** 5/24/2012
Description: Munitions items visible inside the excavator bucket identified during IRP trenching activities at the Inactive Munitions Waste Pit MRS.	
Photo No. 18	**Date:** 8/20/2012
Description: Drums left onsite after completion of IRP trenching activities.	

Photo No. 19	**Date:** 8/20/2012
Description: Gravel/Debris mounds and metal structures present within the Inactive Munitions Waste Pit MRS.	

Photo No. 20	**Date:** 8/20/2012
Description: Metal structures and cultural debris left onsite after completion of IRP trenching activities.	

Photo No. 21	**Date:** 8/20/2012
Description: Dirt/gravel mounds present along the edge of the former testing area within the Inactive Munitions Waste Pit MRS.	

Photo No. 22	**Date:** 8/20/2012
Description: Location of IRP trench after filling and leveling.	

INACTIVE MUNITIONS WASTE PIT – OFF-POST MRS

Photo No. 01	**Date:** 5/24/2012	
Description: Munitions Debris: 37mm, located along a transect in the Inactive Munitions Waste Pit – Off-Post MRS.		

LAKES MRS

Photo No. 01	**Date:**	
Description: Surveyors establishing control points near Lake Denmark.		

Photo No. 02	**Date:** 1/25/2012	
Description: Geophysical technician collecting data in the Lakes MRS .		

Photo No. 03	**Date:** 1/24/2012	
Description: Geophysical Technician collecting EM61 data in the Lakes Area MRS.		

Photo No. 04	**Date:** 1/24/2012	
Description: Geophysical Technician collecting EM61 data in the Lakes Area MRS.		

Photo No. 05	**Date:** 1/24/2012	
Description: EM61 grid layout at Lake Denmark in the Lakes Area MRS.		
Photo No. 06	**Date:** 5/19/2012	
Description: Munitions Debris; BLU-26, practice, located along the banks of Picatinny Lake.		

Photo No. 07	**Date:** 5/20/2012	
Description: Geophysical technician entering information into a Personal Data Assistant (PDA).		

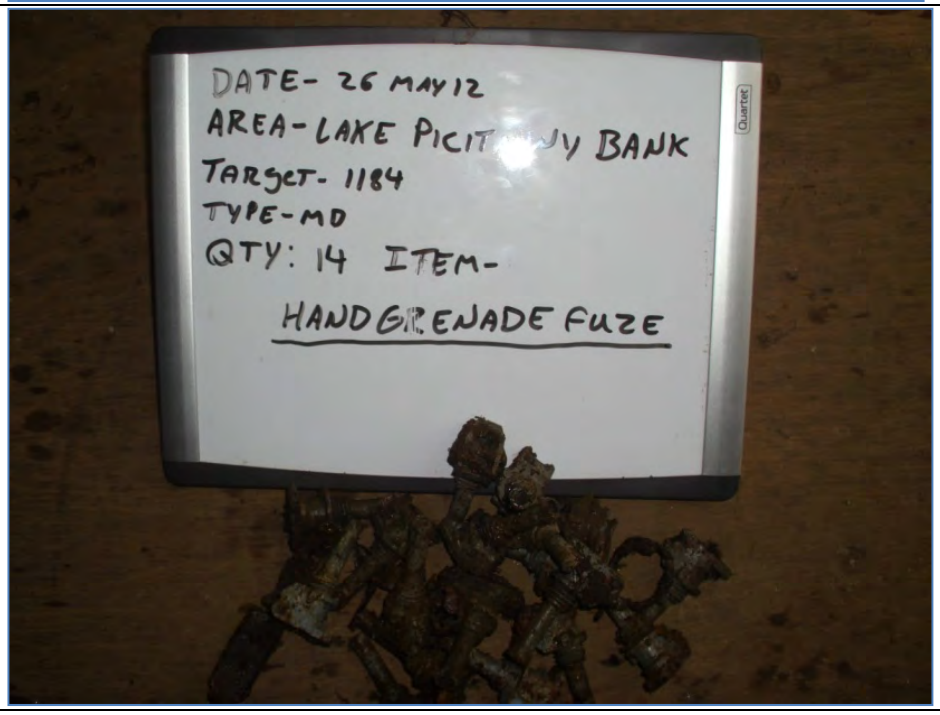
Photo No. 08	**Date:** 5/26/2012	
Description: Munitions debris: grenade fuzes, inert, located along the shore banks of Picatinny Lake.		

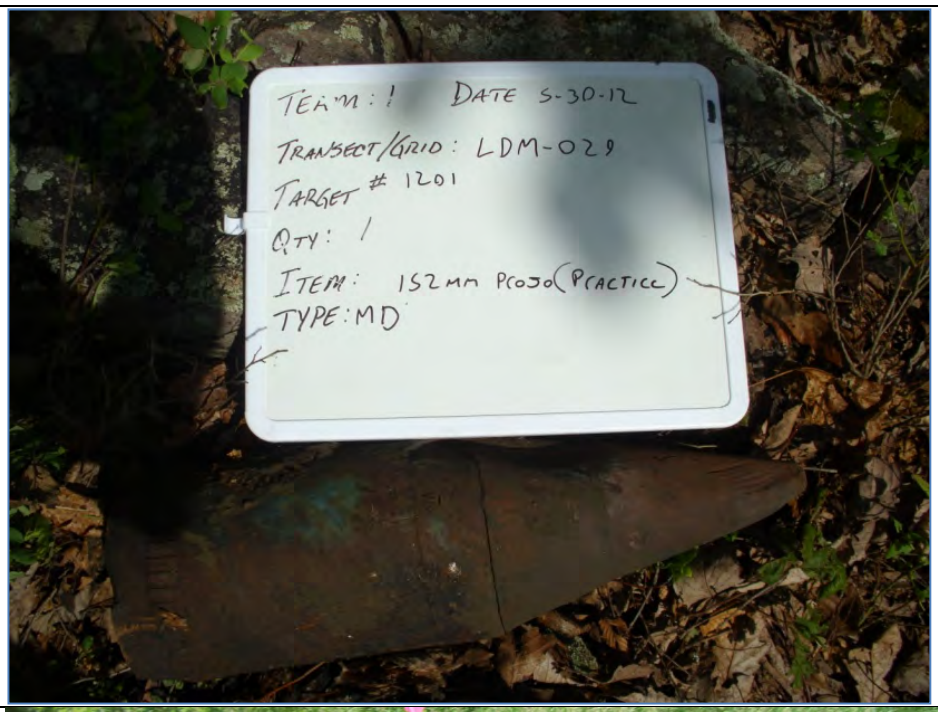
Photo No. 09	**Date:** 5/30/2012	
Description: Munitions debris: 152mm Projectile, practice, located along a transect in Lake Denmark MRS.		

Photo No. 10	**Date:** 5/26/2012	
Description: Cultural Debris: Rebar and piping, located in the Picatinny Lake firing point grid, Target PL-PPT-05, in the Lakes MRS.		

Photo No. 11	**Date:** 5/26/2012
Description: Cultural Debris: Reinforced Concrete, located in the Picatinny Lake firing point grid, Target PL-PPT-02, in the Lakes MRS.	

Photo No.12	**Date:** 5/26/2012
Description: Cultural Debris: Piece of Pipe, located in the Picatinny Lake firing point grid, Target PL-PPT-02, in the Lakes MRS.	

Photo No. 13	**Date:** 5/26/2012
Description: Cultural Debris: Concrete slab, located in the Picatinny Lake firing point grid, Target PL-PPT-01, in the Lakes MRS.	

Photo No. 14	**Date:** 5/26/2012
Description: Cultural Debris: Railroad rails, located in the Picatinny Lake firing point grid, Target PL-PPT-06, in the Lakes MRS.	

Photo No. 15	**Date:** 7/25/2012
Description: The EM61-MKII-HP coil used to perform the survey at Lake Denmark in the Lakes MRS.	

Photo No.16	**Date:** 7/27/2012
Description: The EM61-MKII-HP coil used to perform the survey at Picatinny Lake in the Lakes MRS.	

Photo No. 17	**Date:** 11/10/2012
Description: Early on the morning of the first day of field work, team navigated to anomaly locations and set buoy markers at Picatinny Lake in the Lakes MRS.	

Photo No. 18	**Date:** 11/10/2012
Description: Diver resurfaces after investigating the source of an anomaly at Picatinny Lake in the Lakes MRS.	

Photo No. 19	**Date:** 11/12/2012
Description: Investigation of an anomaly in shallow water Lake Denmark in the Lakes MRS.	

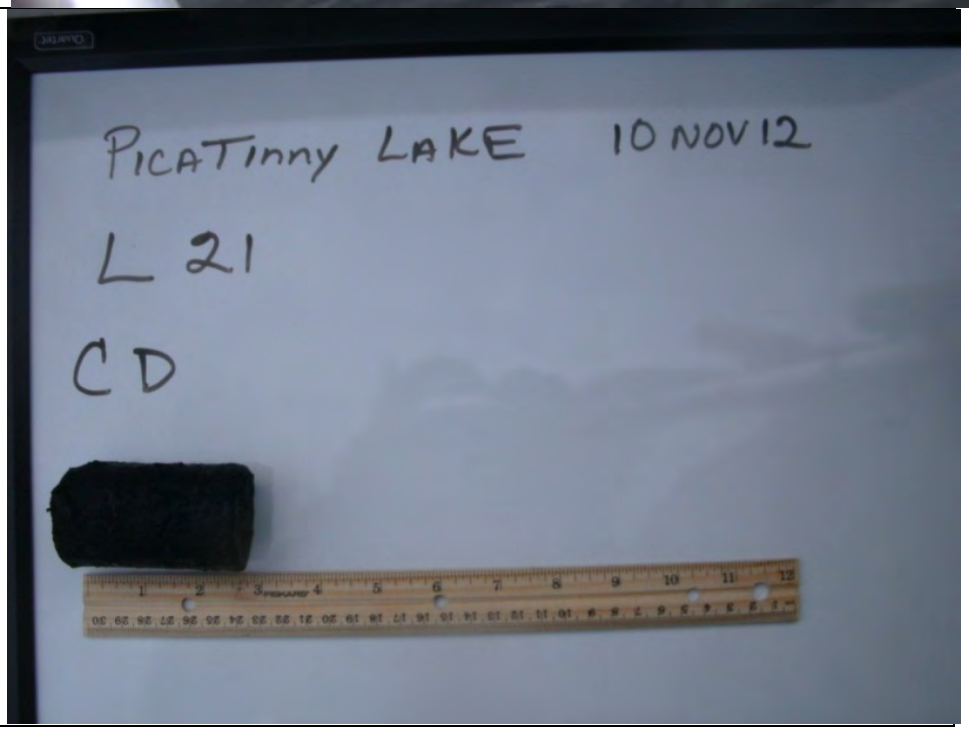
Photo No. 20	**Date:** 11/10/2012
Description: Cultural debris located in Picatinny Lake in the Lakes MRS.	

Photo No. 21	**Date:** 11/10/2012
Description: MDAS located in Picatinny Lake in the Lakes MRS.	

Photo No. 22	**Date:** 11/12/2012
Description: MPPEH, a 60mm fuzed/fired mortar, located in Lake Denmark in the Lakes MRS.	

SHELL BURIAL GROUNDS MRS

Photo No. 01	**Date:** 2/03/2012
Description: Geophysical Technician collecting 858 magnetometer data in the Shell Burial Ground MRS.	

Photo No. 02	**Date:** 2/03/2012
Description: Geophysical Technician collecting 858 magnetometer data in the Shell Burial Ground MRS.	

Photo No. 03	**Date:** 2/03/2012
Description: Geophysical Technician collecting 858 magnetometer data in the Shell Burial Ground MRS.	

Photo No. 04	**Date:** 2/03/2012
Description: Geophysical Technician collecting 858 magnetometer data in the Shell Burial Ground MRS.	

Photo No. 05	**Date:** 1/26/2012	
Description: Geophysical Technician setting up a magnetometer base station at the IVS area.		

Photo No. 06	**Date:** 2/03/2012	
Description: Field personnel navigating EM31 transects in the Shell Burial Grounds MRS.		

Photo No. 07	**Date:** 2/07/2012	
Description: Geophysical technician monitoring Electrical Resistivity readings in the Shell Burial Grounds MRS.		

Photo No. 08	**Date:** 2/07/2012	
Description: Geophysical Technician setting up a resistivity electrode in the Shell Burial Grounds MRS.		

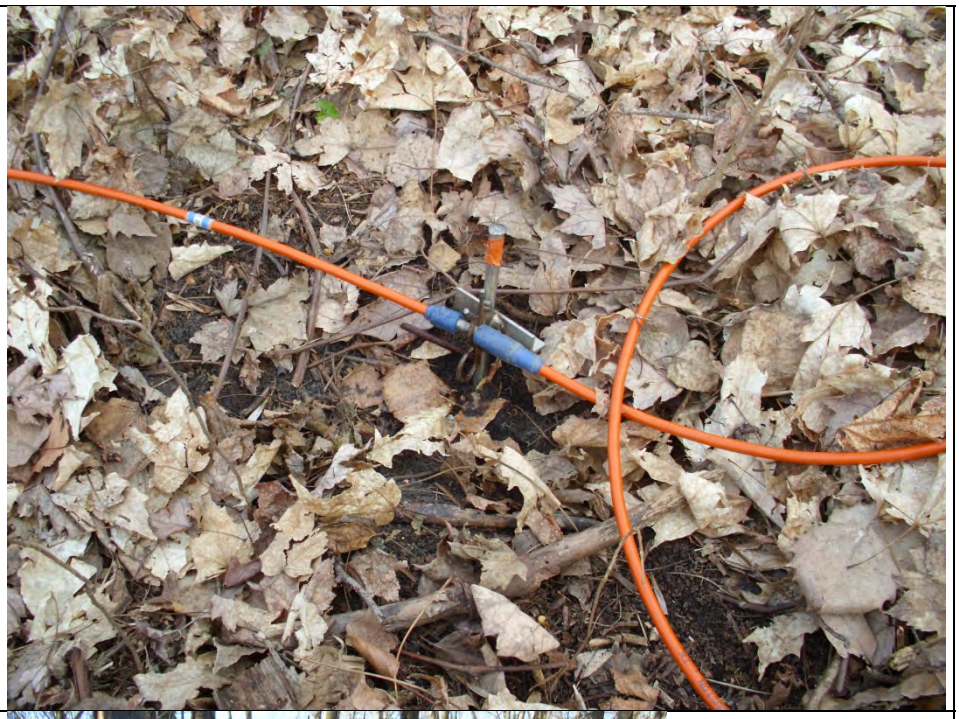
Photo No. 09	**Date:** 2/07/2012
Description: Electrical resistivity electrode placed in the Shell Burial Grounds MRS during the resistivity survey.	

Photo No. 10	**Date:** 2/09/2012
Description: Geophysical Technician using RTK GPS to collect elevations and locations of electric resistivity electrodes in the Shell Burial Grounds MRS.	

Photo No. 11	**Date:** 2/08/2012
Description: Geophysical Technician setting up an RTK GPS base station over a known control point.	

Photo No. 12	**Date:** 2/09/2012
Description: Technician setting up an electrical resistivity transect in the Shell Burial Grounds MRS.	

APPENDIX J

MUNITIONS DEBRIS DD FORM 1348-1A

DD FORM 1348-1A, JUL 91 (EG) ISSUE RELEASE/RECEIPT DOCUMENT

1 2 3	4 5 6 7	23 24 25 26 27 28 29	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
DOC IDENT	RI FROM M&S	UNIT ISS QUANTITY	SER SUPPLEMENTARY ADDRESS	SIG FUND	DISTRIBUTION	PROJECT PRI	REQD DELL DATE	ADV RI	O/P COND MGT	UNIT PRICE DOLLARS CTS

1. TOTAL PRICE: DOLLARS CTS

2. SHIP FROM: Weston Solutions Office

3. SHIP TO: Picatinny Ammunition Storage Area

4. MARK FOR:

5. DOC DATE: 052412

6. NMFC:

7. FRT RATE:

8. TYPE CARGO:

9. PS:

10. QTY. REC'D: 4

11. UP:

12. UNIT WEIGHT: 500 pounds

13. UNIT CUBE:

14. UFC:

15. SL:

16. FREIGHT CLASSIFICATION NOMENCLATURE:

17. ITEM NOMENCLATURE: Munitions Debris

18. TY CONT:

19. NO CONT:

20. TOTAL WEIGHT: 2000

21. TOTAL CUBE:

22. RECEIVED BY: [signature]

23. DATE RECEIVED: 5-24-12

24. DOCUMENT NUMBER & SUFFIX (30-44)

Weston Solutions
Picatinny Arsenal, Dover, NJ 07801
Picatinny Arsenal MMRP/RI
Contract No. W912DR-09-D0006
Delivery Order No. 0002

25. NATIONAL STOCK NO. & ADD (8-22)

MUNITIONS DEBRIS

26. RIC (4-6) UI (23-24) QTY (25-29) CON CODE (71) DIST (55-56) UP (74-80)

55 Gallon Overpack Barrels with approximately 500 Lbs Each Munitions Debris (MD) QTY: 4
Each barrel sealed. Barrel/Seal Numbers: Barrel #1 1832963, 1832964. Barrel #2 1832965, 1832966. Barrel #31832967, 1832968. Barrel #4 1832969, 1832970

27. ADDITIONAL DATA

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

Walt Hess, Senior UXO Supervisor

Bruce A. Carnal, UXO Safety/Quality Control Officer

PREVIOUS EDITION MAY BE USED

Adobe Designer 7.0

DD FORM 1348-1A, JUL 91 (EG) ISSUE RELEASE/RECEIPT DOCUMENT

1	2	3	4	5	6	7	23	24	25	26	27	28	29	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
DOC	IDENT			RI FROM		M&S		UNIT	ISS	QUANTITY				SER	SUPPLE-MENTARY ADDRESS					SIG	FUND		DIS-TRI-BU-TION		PRO-JECT			PRI		REQD	DELL	DATE		ADV		RI		O/P	CONDT	MGT							

UNIT PRICE		1. TOTAL PRICE		2. SHIP FROM	3. SHIP TO
DOLLARS	CTS	DOLLARS	CTS	Weston Solutions Office	Picatinny Ammunition Storage Area
				4. MARK FOR	

5. DOC DATE	6. NMFC	7. FRT RATE	8. TYPE CARGO	9. PS
052412				

10. QTY. REC'D	11.UP	12. UNIT WEIGHT	13. UNIT CUBE	14. UFC	15. SL
1		600 pounds			

16. FREIGHT CLASSIFICATION NOMENCLATURE

17. ITEM NOMENCLATURE
Munitions Debris

18. TY CONT	19. NO CONT	20. TOTAL WEIGHT	21. TOTAL CUBE
		600	

22. RECEIVED BY	23. DATE RECEIVED
Randall Rhinesmith	1 Jun 12

PREVIOUS EDITION MAY BE USED

24. DOCUMENT NUMBER & SUFFIX (30-44)

Weston Solutions
Picatinny Arsenal, Dover, NJ 07801
Picatinny Arsenal MMRP/RI
Contract No. W912DR-09-D0006
Delivery Order No. 0002

25. NATIONAL STOCK NO. & ADD (8-22)

MUNITIONS DEBRIS

26. RIC (4-6) UI (23-24) QTY (25-29) CON CODE (71) DIST (55-56) UP (74-80)

55 Gallon Overpack Barrel with approximately 600 Lbs Munitions Debris (MD) QTY: 1
Barrel sealed. Barrel/Seal Numbers: Barrel #5 1832971, 1832972

27. ADDITIONAL DATA

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

Walt Hess, Senior UXO Supervisor

Bruce A. Carnal, UXO Safety/Quality Control Officer

Adobe Designer 7.0

APPENDIX K

DAILY REPORTS

1926 EXPLOSION RADIUS MRS

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	21 Nov 2011, 0700 - 1700

WEATHER/TEMPERATURE: Cloudy and cool. 53 high/40 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☒ Surveyor activities
- ☐ Mag and Dig activities)
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ _____

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Surveyors installed 2 grids in 1926 MRS

- 26OR-100, 26OR-101

Comments: Attended Picatinny-Specific Safety and UXO briefing led by Fenando Villa (Chugach) and Bruce Miller (PTA)

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 22 Nov 2011: Continue installation of grids in Area 1400

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	11/21/11

WEATHER/TEMPERATURE:
LOW- 40 **HIGH-** 62 COOL WITH RAIN IN THE AFTERNOON

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck- WESTON	
Nicole Sharkey - WESTON	
Bryan Smith – ARCADIS	
Bob Miglin – Badey & Watson	
Matt Liberta – Badey & Watson	

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☐ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☒ First Aid Kit ☐ Fire Prevention Equipment ☐ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	22 Nov 2011, 0700 - 1700

WEATHER/TEMPERATURE: Cloudy and cool 58 high/42 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☒ Surveyor activities
- ☐ Mag and Dig activities)
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ _____

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Surveyors installed 7 grids in 1926 MRS

- 26OR-091,26OR-092,26OR-095,26OR-097,26OR-098,26OR-099,26OR-102

Comments: Attended Picatinny-Specific Safety and UXO briefing led by Fenando Villa (Chugach) and Bruce Miller (PTA)

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 23 Nov 2011: Continue installation of grids in Area 400

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	11/22/11 0700 - 1700

WEATHER/TEMPERATURE:
LOW- 42 **HIGH-** 58 Cold No Rain

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck- WESTON	
Nicole Sharkey - WESTON	NOT ONSITE
Bryan Smith – ARCADIS	
Bob Miglin – Badey & Watson	
Matt Liberta – Badey & Watson	

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☐ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☐ First Aid Kit ☐ Fire Prevention Equipment ☐ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	23 Nov 2011, 0700 - 1300

WEATHER/TEMPERATURE: Cloudy and cool. 57 high/30 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☒ Surveyor activities
- ☐ Mag and Dig activities)
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ _____

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Surveyors installed 1 grid and surveyed baseline control in 1926 MRS

- 26IR-004

Comments: Left site at 1300 due to heavy rain

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 29 Nov 2011: Continue installation of grids in Area 400

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	11/23/11

WEATHER/TEMPERATURE:
LOW- 30 HIGH- 57 Cool and Rainy

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck- WESTON	[illegible]
Nicole Sharkey - WESTON	No onsite
Bryan Smith – ARCADIS	
Bob Miglin – Badey & Watson	[illegible]
Matt Liberta – Badey & Watson	[illegible]

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☐ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☐ First Aid Kit ☐ Fire Prevention Equipment ☐ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	11/29/2011 0700 - 1700

WEATHER/TEMPERATURE: Cloudy and cool. 62 high/40 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☒ Surveyor activities
- ☐ Mag and Dig activities)
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ _____

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Surveyors installed 5 grids in 1926 MRS

- 26IR-003, 26IR-005, 26IR-013, 26OR-079, 26OR-080

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 30 Nov 2011: Begin installation of grids in Areas 3000, 3100, 3200

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	0700 - 1700

WEATHER/TEMPERATURE:
LOW- 40 **HIGH-** 62

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck- WESTON	
Tim Holland – ARCADIS	
Bob Miglin – Badey & Watson	
Matt Liberta – Badey & Watson	

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☒ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☒ First Aid Kit ☒ Fire Prevention Equipment ☐ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	30 Nov 2011, 0700 - 1700

WEATHER/TEMPERATURE: Sunny and cool. 50 high/30 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☒ Surveyor activities
- ☐ Mag and Dig activities)
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ _____

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Surveyors installed 8 grids in 1926 MRS

- 26IR-007, 26IR-009, 26IR-010, 26IR-011, 26IR-012, 26IR-014, 26OR-036, 26OR-037

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 01 Dec 2011: Begin installation of grids in Areas 3300 and 1500 areas

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	11/30/11 0700 - 1700

WEATHER/TEMPERATURE:
LOW- 30 HIGH- 50 CLEAR AND COOL

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck- WESTON	
Tim Holland – ARCADIS	
Bob Miglin – Badey & Watson	
Matt Liberta – Badey & Watson	

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☑ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☑ First Aid Kit ☐ Fire Prevention Equipment ☐ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	01 Dec 2011, 0700 - 1700

WEATHER/TEMPERATURE: Sunny and cool 48 high/30 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☒ Surveyor activities
- ☐ Mag and Dig activities)
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ _____

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Surveyors completed 7 grids in the 1926 MRS:
-26OR-038,26OR-039,26OR-040,26OR-042,26OR-043,26OR-045

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 02 Dec 2011: Continue installation of grids in area 3000

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	02 Dec 2011, 0700 - 1700

WEATHER/TEMPERATURE: Sunny and cool. 50 high/27 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☒ Surveyor activities
- ☐ Mag and Dig activities)
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ _____

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Surveyors completed 1 grid and established baseline survey control in the 1926 MRS:
-26IR-008

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 05 Dec 2011: Begin brush cutting of grids

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12/2/11 0700 - 1700

WEATHER/TEMPERATURE:
LOW- 27 **HIGH-** 50 Sunny and cool

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck- WESTON	
Tim Holland – ARCADIS	
Bob Miglin – Badey & Watson	
Matt Liberta – Badey & Watson	

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☑ Review Applicable SOPs ☒ Phone/Radio Check ☑ Wetland Issues ☑ First Aid Kit ☑ Fire Prevention Equipment ☐ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	05 Dec 2011, 0700 - 1700

WEATHER/TEMPERATURE: Sunny and cool 50 high/30 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities)
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ _____

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Surveyors were not onsite today

Comments:

Paul Novak (WESTON), Morgan Parr (ARCADIS), Nicholas Cox (ARCADIS) and Brush Cutting crew mobilized to site and received Picatinny specific safety and UXO awareness training.

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 06 Dec 2011: Continue installation of grids and begin brush cutting in installed grids

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12/5 0700 – 1700

WEATHER/TEMPERATURE:
LOW- 47 **HIGH-** 56 COOL AND CLOUDY

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck - WESTON	
Paul Novak – WESTON	
Nick Cox – ARCADIS	
Morgan Parr – ARCADIS	
Bob Miglin – Badey & Watson	– NOT ONSITE –
Matt Liberta – Badey & Watson	– NOT ONSITE –
Hanna Cuhon - ARCADIS	

HEALTH AND SAFETY:

☒ **Daily H&S Brief and Discussion**
- **Prior to work and as needed.**

☒ **UXO Safety Discussion**
- **Prior to work and as needed.**

Discussion Topics:

☒ **Personnel Sign In** ☐ **Review Applicable SOPs** ☒ **Phone/Radio Check** ☐ **Wetland Issues** ☐ **First Aid Kit** ☐ **Fire Prevention Equipment** ☐ **Issues / Injuries**

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	06 Dec 2011, 0700 - 1700

WEATHER/TEMPERATURE: Sunny and cool. 57 high/54 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☒ Surveyor activities
- ☐ Mag and Dig activities)
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Brush Cutting activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Surveyors installed 8 grids in 1926 MRS

- 26OR-11, 26OR-13, 26OR-16, 26OR-17, 26OR-19, 26OR-20

Brush cutters cleared brush in 8 grids

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 07 Dec 2011: Begin installation of grids in 200, 800 and 900 areas.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12/6/11

WEATHER/TEMPERATURE:
LOW- **HIGH-**

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck - WESTON	
Paul Novak – WESTON	
Nick Cox – ARCADIS	
Morgan Parr – ARCADIS	
Bob Miglin – Badey & Watson	
Matt Liberta – Badey & Watson	
Anthony MANCO – JOE CAPOZZI	
Rony Valdez Joe capozzi	
Jose Valdez joe capozzi	Jose Valdez

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☐ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☐ First Aid Kit ☐ Fire Prevention Equipment ☐ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	07 Dec 2011, 0700 - 1700

WEATHER/TEMPERATURE: Rain and cold 52 high/30 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☒ Surveyor activities
- ☐ Mag and Dig activities
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Surveyors installed 6 grids in 1926 MRS

- 26IR-002, 26OR-018, 26OR-021, 26OR-029, 26OR-031, 26OR-035

Brush Cutting was completed in 10 grids.

Comments:
Brian Jordan (ARCADIS) mobilized to site.

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 08 Dec 2011: Finish installation of grids in 900 area. Install and survey IVS.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

WESTON SOLUTIONS

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12/7/11 0700 - 1700

WEATHER/TEMPERATURE:
LOW- 42 **HIGH-** 54 Rainy

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck - WESTON	
Paul Novak – WESTON	
Nick Cox – ARCADIS	
Morgan Parr – ARCADIS	
Bob Miglin – Badey & Watson	
Matt Liberta – Badey & Watson	
Arthur Marino – Capozzi Landscape	
Jose Valdez Capozzi	Jose Valdez
Tony Valdez Capozzi	
Brian Jordan - ARCADIS	Brian Jordan

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☐ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☐ First Aid Kit ☐ Fire Prevention Equipment ☐ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	08 Dec 2011, 0700 - 1700

WEATHER/TEMPERATURE: Cold and clear 42 high/24 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☒ Surveyor activities
- ☐ Mag and Dig activities
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Surveyors collected localized control data in 1926 MRS and surveyed the Instrument Verification Strip (IVS) in the 100 area.

Brush Cutting was completed in 10 grids.

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 09 Dec 2011: Finish brush cutting in remaining grids and begin DGM data collection.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12/8/11 0700 - 1700

WEATHER/TEMPERATURE:
LOW- 24 **HIGH-** 42 Clear no cold

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck - WESTON	
Paul Novak – WESTON	
Nick Cox – ARCADIS	
Morgan Parr – ARCADIS	
Bob Miglin – Badey & Watson	
Matt Liberta – Badey & Watson	
Megan Garrett - USACE	
Brian Jordan - ARCADIS	

HEALTH AND SAFETY:

☒ **Daily H&S Brief and Discussion**
- **Prior to work and as needed.**

☒ **UXO Safety Discussion**
- **Prior to work and as needed.**

Discussion Topics:

☒ **Personnel Sign In** ☑ **Review Applicable SOPs** ☒ **Phone/Radio Check** ☐ **Wetland Issues** ☑ **First Aid Kit** ☑ **Fire Prevention Equipment** ☐ **Issues / Injuries**

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	09 Dec 2011, 0700 - 1700

WEATHER/TEMPERATURE: Cold and clear 42 high/24 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Geophysical data collection was completed in 1 grid:
- 26OR-095

Brush Cutting was completed in 7 grids.

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 12 Dec 2011: Continue DGM data collection in Area 200, begin MC sampling activities.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12/04/11 0700 – 1700

WEATHER/TEMPERATURE:
LOW- 24 **HIGH-** 42 Cloudy and Cold

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck - WESTON	
Paul Novak – WESTON	
Nick Cox – ARCADIS	
Morgan Parr – ARCADIS	
Bob Miglin – Badey & Watson	NOT ONSITE
Matt Liberta – Badey & Watson	NOT ONSITE
Brian Jordan – ARCADIS	
Megan Garrett – USACE	
Jose Valdez Caporzi	Jose Valdez
Tony Valdez Caporzi	

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☐ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☐ First Aid Kit ☐ Fire Prevention Equipment ☐ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12 Dec 2011, 0700 - 1700

WEATHER/TEMPERATURE: Cold and clear 42 high/22 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Geophysical data collection was completed in 3 grids:
- 26OR-11, 26OR-13, and 26IR-04

MC Sampling was conducted in the 900 area.

Comments:
Team received an archaeological brief from Jason Huggan.

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 13 Dec 2011: Continue DGM data collection in Area 200, continue MC sampling.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12/12/11 0700 - 1700

WEATHER/TEMPERATURE:
LOW- 22 HIGH- 42

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck - WESTON	
Paul Novak – WESTON	
Nick Cox – ARCADIS	
Morgan Parr – ARCADIS	
Brian Jordan - ARCADIS	

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☐ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☐ First Aid Kit ☐ Fire Prevention Equipment ☐ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	13 Dec 2011, 0700 - 1700

WEATHER/TEMPERATURE: Cold and clear 42 high/22 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Geophysical data collection was completed in 4 grids:
- 26OR-17, 26OR-39, 26IR-05, 26IR-10

MC Sampling was conducted west of the 200, 600, and 800 areas.

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 14 Dec 2011: DGM data collection in Area 1400, MC sampling in 1600 Area.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12/13/11 0700 - 1700

WEATHER/TEMPERATURE:
LOW- 26 HIGH- 44 Sunny & cool

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck - WESTON	
Paul Novak – WESTON	
Nick Cox – ARCADIS	
Morgan Parr – ARCADIS	
Brian Jordan	
Hanna Cutton	
Megan Garrett - USACE	

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☐ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☐ First Aid Kit ☐ Fire Prevention Equipment ☐ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	14 Dec 2011, 0700 - 1700

WEATHER/TEMPERATURE: Cold and clear 44 high/33 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☒ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Geophysical data collection was completed in 3 grids:
- 26OR-101, 26OR-099, and 26OR-092

MC Sampling was conducted in the 1600 Area.

Comments:
Surveyors were onsite today to verify additional baseline control.

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 15 Dec 2011: DGM data collection in Area 1400, MC sampling in the 1100 Area.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12/14/11 0700 - 1700

WEATHER/TEMPERATURE:
LOW- 23 HIGH- 44 SUNNY AND COOL

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck - WESTON	
Paul Novak – WESTON	
Nick Cox – ARCADIS	
Morgan Parr – ARCADIS	
MEGAN GARRETT - USACE	
Brian Jordan - ARCADIS	
Robert Miglin Badey + Watson	
Hanna Cutter - ARCADIS	

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☐ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☐ First Aid Kit ☐ Fire Prevention Equipment ☐ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	15 Dec 2011, 0700 - 1700

WEATHER/TEMPERATURE: Cold and clear 53 high/39 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Geophysical data collection was completed in 3 grids:
- 26OR-040, 26OR-038, and 26IR-012

MC Sampling was conducted in the 1100 Area.

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 16 Dec 2011: DGM data collection in Area 1000 and 1300, MC sampling in 1100 Area.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12/15/11 0700 - 1700

WEATHER/TEMPERATURE:
LOW- 39 HIGH- 53 COOL AND RAINY

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck - WESTON	
Paul Novak – WESTON	
Nick Cox – ARCADIS	
Morgan Parr – ARCADIS	
Brian Jordan	
Hanna Culton - ARCADIS	

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☑ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☑ First Aid Kit ☐ Fire Prevention Equipment ☐ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	16 Dec 2011, 0700 - 1700

WEATHER/TEMPERATURE: Cold and clear 42 high/33 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Geophysical data collection was completed in 3 grids:
- 26IR-003, 26IR-013, 26OR-079, and 26OR-080

MC Sampling was conducted in the 1100 Area.

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 19 Dec 2011: DGM data collection in Area 1400 and 3100, MC sampling in 1100 Area.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12/16/11 0700 - 1700

WEATHER/TEMPERATURE:
LOW- 33 HIGH- 42 Cold and clear

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck - WESTON	
Paul Novak – WESTON	
Nick Cox – ARCADIS	
Morgan Parr – ARCADIS	
Hanna Cutton - ARCADIS	
Brian Jordan - ARCADIS	

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☐ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☐ First Aid Kit ☐ Fire Prevention Equipment ☐ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	19 Dec 2011, 0700 - 1700

WEATHER/TEMPERATURE: Cold and clear 43 high/29 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Geophysical data collection was completed in grids:

Team 1
- 26OR-100, 26OR-98, 26OR-97

Team 2
- 26IR-11, 26IR-14

MC Sampling was conducted in the 900 Area.

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 20 Dec 2011: DGM data collection in Area 3000 and 3300, MC sampling in 1100 Area.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12/19/11 0700 - 1700

WEATHER/TEMPERATURE:
LOW- 29 HIGH- 43 Cold ms clear

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck - WESTON	
Paul Novak – WESTON	
Nick Cox – ARCADIS	
Morgan Parr – ARCADIS	
Nicole Sharkey - Weston	
Brian Jordan - ARCADIS	
Hanna Culton-ARCADIS	

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☑ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☑ First Aid Kit ☑ Fire Prevention Equipment ☑ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	20 Dec 2011, 0700 - 1700

WEATHER/TEMPERATURE: Cold and clear 41 high/30 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Geophysical data collection was completed in 8 grids:

Team 1

- 26IR-27, 26IR-009, 26OR-037, 26OR-091, and 26OR-036

Team 2

- 26OR-045, 26OR-043, and 26OR-042

MC Sampling was conducted in the 1100 Area.

Comments:

A safety stand down was conducted at 10am to discuss vehicle safety, slips trips and falls and other applicable safety guidelines for work being performed onsite.

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 21 Dec 2011: DGM data collection in 600, 700 and 800 Areas, MC sampling in 1100 Area.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12/20/11 0700 - 1700

WEATHER/TEMPERATURE:
LOW- 30 HIGH- 41 Cold and clear

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck - WESTON	
Paul Novak – WESTON	
Nick Cox – ARCADIS	
Morgan Parr – ARCADIS	
Brian Jordan - ARCADIS	
Nicole Sharkey - Weston	
Tim Howard - ARCADIS	
Hassan Cam	Random on site 12

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☐ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☐ First Aid Kit ☐ Fire Prevention Equipment ☐ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	21 Dec 2011, 0700 - 1700

WEATHER/TEMPERATURE: Overcast with Intermittent rain 50 high/39 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Geophysical data collection was completed in 7 grids:

- 26OR-031, 26IR-002, 26OR-021, 26OR-019, 26OR-018, 26OR-016, and 26OR-035

MC Sampling was conducted in the 1100 Area.

Comments:
John Cole (ARCADIS) mobilized to site to assist with soil sampling activities.

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 22 Dec 2011: DGM data collection in 200 Area.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	10/21/11 0700 - 1700

WEATHER/TEMPERATURE:
LOW- 39 HIGH- 50

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck - WESTON	
Paul Novak – WESTON	NOT ONSITE
Nick Cox – ARCADIS	
Morgan Parr – ARCADIS	
Brian Jordan - ARCADIS	
Nicole Sharkey - Weston	
Tim Lamont	
John Cole	

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☑ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☑ First Aid Kit ☑ Fire Prevention Equipment ☑ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	22 Dec 2011, 0700 - 1200

WEATHER/TEMPERATURE: Cold and clear 56 high/41 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Geophysical data collection was completed in 1 grid:

- 26OR-020

No MC sampling was conducted today.

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Field activities are completed for 2011. Field crews will remobilize to site on 09 Jan 2012.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12/22/11 0700 - 1200

WEATHER/TEMPERATURE:
LOW- 41 HIGH- 56

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck - WESTON	
Paul Novak – WESTON	NOT ONSITE
Nick Cox – ARCADIS	
Morgan Parr – ARCADIS	
Brian Jordan - ARCADIS	

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☑ Review Applicable SOPs ☒ Phone/Radio Check ~~☐ Wetland Issues~~ ☑ First Aid Kit ☑ Fire Prevention Equipment ☐ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	19 Jan 2012, 0700 - 1700

WEATHER/TEMPERATURE: Cold and rainy 34 high/30 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

DGM data collection was performed in the following areas:

- 3in Barbett Gun Firing Point (500 Area)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 20 Jan 2012: DGM Data collection in the 900 Area

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 1/19/2012
Weather Conditions: 0% Precip, Wind E-SSE 5-10 MPH	Temperature: 15-34F

Safety Discussion and Issues: Repetitive Motions with the loppers, MEC anticipated in the 500 Area.

QC Discussion and Issues: Clearing for the 61 through the dense areas, using the 61 in the 500 Area.

Other Discussion and Issues: Slips Trips and Falls.

Acknowledgement

Name	Company	Signature
Brian Junck	Weston	
Brian Guthrie	Weston	
Paul Novak	Weston	
Bruce Carnal	Weston	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Brian Junck

Signature:

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	11 Apr 2012

WEATHER: 38 - 54 Mostly Cloudy

WORK LOCATION: Northwest of the 200 Area (Former Code 300 Area), and 1100 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown
Geo Tech: K. Schlosser

Team location: 1100 Area

Worked performed:

Marking transects, brush cutting, mag and dig in transects FOA-T11 (2,000 ft), T12 (4,200 ft), T13 (3,850 ft), T14 (2,680 ft), T15 (1,930 ft) and T18 (800 ft).

Comments:

- Found 1 each 81mm mortar in transect 14, deemed safe to move by SUXOS and UXOSO/QC, and transported and stored in magazine. Location of item found: UTM 18N WGS 1984 (1757847.53E, 14863952.6N).
- Found 7 each 81mm Mortars and (1) 60mm Mortar in transect 18, all deemed safe to move by SUXOS and UXOSO/QC, and transported and stored in Magazine. Location of items found: UTM 18N WGS 1984 (1756412.41E, 14864076.78N).
- Found 1 each 60mm Mortar (suspected WP body) in transect 13, deemed safe to move by SUXOS and UXOSO/QC, and transported and stored in magazine. Location of item found: UTM 18N WGS 1984 (1758587.3E, 14864351.01N).

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: Former Code 300 Area
Worked performed: Density transects in C30-T02 (880 ft), T03 (1,050 ft), T04 (1,020 ft), T05 (1,830 ft), T07 (1,700 ft) and T08 (320 ft); and mag and dig grid 26OR-014.

Comments: No MD or MEC/MPPEH related materials recovered.

DATA TRACKING:

Analog Survey Transects/Grids:
Former Code 300 density transects C30-T02, T03, T04, T05, T07 and T08 (Total of 6,800 ft).

Mag and dig in grid 26OR-014.

1100 Area Mag and Dig Transects FOA-T11, T12, T13, T14, T15 and T18 (Total of 14,960 ft).

Items Recovered Today:
MEC/MPPEH: 8 each 81 mm mortars, 2 each 60mm mortars.
MD: 13 lbs
CD: 336 lbs

DGM Grids/Transects: None

DGM Grids/Transects Reacquired: None

Comments:

QC/QA:

Other work performed:

Comments:

PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/11/2012

Describe daily QC activities: No QY performed today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 4/11/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	12 Apr 2012

WEATHER: 40 – 67 Clear

WORK LOCATION: 1100 Area, Former Code 300 Area, and West of 1400 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown
Geo Tech: K. Schlosser

Team location: 1100 Area

Worked performed: Mag and dig in transects 11 (1,975 ft), 12 (400 ft), 13 (650 ft), 14 (425 ft), 15 (1,255 ft), 17 (1,500 ft), 18 (1,525 ft), 19 (1,400 ft), 20 (1,250 ft), 23 (1,875 ft), 24 (1,775 ft), and 25 (1,400 ft).

Comments:
Found 1 ea 81mm mortar with new-style sheared fuze in transect 25, deemed safe to move by SUXOS and UXOSO/QC, and transported and stored in magazine. Location of items found: UTM 18N WGS 1984 (1754536.47E, 14864600.68N).

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: Former Code 300 Area and West of 1400 Area

Worked performed: Mag and dig grids 26OR-015 and 26OR-086.

Comments: Also conducted brush cutting near Green Pond Brook in 300 Area.

DATA TRACKING:

Analog Survey Transects/Grids:
Transects11, 12, 13, 14, 15, 17, 18, 19, 20, 23, 24, and 25 in 1100 area (Total 15,430 ft); grids 26OR-015 and 26OR-086 in Former Code 300 area and West of 1400 area.

Items Recovered Today:
MEC/MPPEH: 81mm mortar
MD: 5 lbs
CD: 140 lbs

DGM Grids/Transects: None

DGM Grids/Transects Reacquired: None

Comments:

QC/QA:

Other work performed:

Comments:

PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/12/2012

Describe daily QC activities: No QY performed today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 4/12/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	13 Apr 2012

WEATHER: 40 – 64 Clear

WORK LOCATION: 1100 Area, 1600 Area, Former Code 300 Area, West of 1400 Area, and East of 1350 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown
Geo Tech: K. Schlosser

Team location: 1100 Area
Worked performed: Conducted mag and dig ops in transects 25 (600 ft), 26 (1,675 ft), 27 (2,150 ft), 28 (1,425 ft), 29 (1,575 ft), 30 (1,950 ft), and 31 (1,475 ft).

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: Former Code 300 Area, West of 1400 Area, and East of 1350 Area

Worked performed: Mag and dig in grids 26IR-016, and grids 26OR-078, 087, 088, 089, 090, 093, 094, and 096.

Comments:

DATA TRACKING:

Analog Survey Transects/Grids:
Transects in 1100 and 1600 Area (total 10,860 ft); grids in Former Code 300 Area, West of 1400 Area, and East of 1350 Area.

Items Recovered Today:
MEC/MPPEH: None
MD: 7 lbs
CD: 121 lbs

DGM Grids/Transects: None

DGM Grids/Transects Reacquired: None

Comments:

QC/QA: QC'ed 26OR 003, 012, 014, and 015 – no QC failures

Other work performed:

Comments:

PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/13/2012

Describe daily QC activities: Performed Grid QC. All passed QC with OESS Observing.

Grid QC: 26OR-003, 26OR-012, 26OR-14, 26OR-15

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 4/13/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	14 Apr 2012

WEATHER: 39 – 69 Clear

WORK LOCATION: 1600 Area, Green Pond Brook, and Former Code 300 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☐ DGM activities (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

16 yards of sand for demo-ops in the Gorge.

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown
Geo Tech: K. Schlosser

Team location: 1600 Area

Worked performed: Conducted mag and dig ops in transects 16 (1,850 ft – dug on 4/12, but GPS was not turned on for tracking), 21 (1,100 ft), 22 (900 ft), 23 (175 ft), 24 (285 ft), 25 (350 ft), 26 (600 ft), 27 (1,430 ft), 28 (1,225 ft), 29 (1,800 ft), 30 (1,550 ft), 31 (1,840 ft) and 32 (2,775 ft).

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: Former Code 300 Area

Worked performed: Conducted reacquire and intrusive investigation in grid 26OR-011 (82 digs).

Comments: Found 1 ea 105mm HEAT round (unfired). Item and condition verified, deemed safe to move, and transported to and stowed in the magazine. Location of item: UTM 18N (14870667.52E, 1759060.604N).

DATA TRACKING:

Analog Survey Transects/Grids:
Transects in 1100 and 1600 Area (total 15,880 ft); and 26OR-011 (total 82 digs).

Items Recovered Today:
MEC/MPPEH: 1 ea 105mm HEAT, and 1 ea 81mm mortar (practice)
MD: 23 lbs
CD: 300 lbs

DGM Grids/Transects: 26OR-011

DGM Grids/Transects Reacquired: Grid 26OR-011 and Green Pond Brook Area transect

Comments:
1 ea 81mm mortar practice round was discovered in February in the 20/24 Area during the DGM phase. It was reported to EOD, who asked that we return to the round during the intrusive investigation phase and then remove it to the magazine. It was picked up on 14 Apr 2012 and moved into the magazine. The round was located at UTM 18N WGS 1984 (1755051.8E, 14864378.2N).

QC/QA:

Other work performed:

Comments:

PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/14/2012

Describe daily QC activities: No grids QC'd today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 4/14/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	18 Apr 2012

WEATHER: 44 – 61 Clear

WORK LOCATION: 1100 , 1600, 3200, and 3300 Areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

Backhoe, case model 580N

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown
Geo Tech: K. Schlosser

Team location: 1100 and 1600 Areas

Worked performed: Conducted mag and dig operations along transects FOA 28 (1,175 ft), 29 (1,200 ft), 30 (1,175 ft), 32 (775 ft), 33 (2,050 ft), 34 (650 ft), 35 (1,450 ft), 36 (1,075 ft) and 37 (350 ft), and Mag/Flag/Record along density transects C30- 002 (2,300 ft), 003 (1,725 ft), 004 (1,825 ft), 005 (1,940 ft) and 006 (1,655 ft).

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: West of 3200 Area, and 3300 Area

Worked performed: Intrusive investigation in grids 26OR-030, 33, 34, 46, 50, 51, 52, 54, and 55.

Comments:

DATA TRACKING:

Analog Survey Transects/Grids:
Transects FOA 28, 29, 30, 32, 33, 34, 35, 36 and 37 (total 9,900 ft); density transects C30-002, 003, 004, 005, 006 (total 9,445 ft); and grids 26OR-030, 33, 34, 46, 50, 51, 52, 54 and 55.

Items Recovered Today:
MEC/MPPEH: none
MD: 18 lbs
CD: 95 lbs

DGM Grids/Transects: None

DGM Grids/Transects Reacquired: None

Comments:
None

QC/QA: None

Other work performed:

Comments: Troy Phelps (WESTON) on-site to perform WESTON internal Quality Assurance inspection.

PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/18/2012

Describe daily QC activities: No QC's were done today.

Grid QC: N/A.

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 4/18/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	19 Apr 2012

WEATHER: 44-60 Clear

WORK LOCATION: 1100 and 3300 Areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☐ DGM activities (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

Comments: Intrusive investigation of DGM targets

MATERIALS DELIVERED (Amount, Condition, and Purpose):

Explosive Boosters, Sparta 200gm, 72 ea. (Explosive Supply Inc.), Donor explosives for demo ops

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown

Geo Tech:

Team location: 1100 area

Worked performed: Conducted Mag and Dig ops along transects FOA 005, 006, 007, 008, 009 and 010

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 3300 Area
Worked performed: Intrusive investigation in 1926 Explosion Radius MRS grids 26OR-031, 035, 047, 048, 049, 053 and 064.

Comments: Recovered a 5in projectile in grid 26OR-064. Item verified, deemed safe to move and transported to the magazine for future demo. Location – UTM 18N WGS 1984(1770198.69E, 14873044.24N)

DATA TRACKING:

Analog Survey Transects/Grids: Transects: FOA- 005, 006, 007, 008, 009 and 010
Grids: 26OR-047, 048, 049, 053 and 064
Comments:

Items Recovered Today:
MEC/MPPEH: 5in projectile, unfired (DMM)
MD: 6 lbs
CD: 106 lbs

DGM Grids/Transects: Grids: 26OR- 031 and 035

DGM Grids/Transects Reacquired: Grids 26OR- 016, 018, 019, 021, 031 and 035

Comments:

QC/QA:

Other work performed:

Comments:

PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/19/2012

Describe daily QC activities: DGM Grids. All passed.

Grid QC: 26OR-011, Points 6,7,11,12,27,30,31,34,39,40,41,42,51,56,60,67,73,87
26OR-013, Points 1,6,7,16,17,18,21,22,28,31
26OR-017, Points 4,6,8,11,19,20,27,31,35,36,38,39
26OR-020, Points 22,27,28,29,39,42,44,52,56,62,64,67

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 4/19/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	20 Apr 2012

WEATHER: 48-69 F Mostly Clear

WORK LOCATION: 1100 and 3100 Areas and Gorge

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☒ Equipment Issues (List below)
- ☐ Background Soil Sampling

Comments: Intrusive investigation of DGM targets

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

Case backhoe developed a minor hydraulic leak, contacted vendor for repairs. Repairs were completed on site, and fluid was retained within the hoe bucket.

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown
Geo Tech: K. Schlosser

Team location: 1100 area
Worked performed: Conducted Mag and Dig ops along transects FOA 005, 006, 007, 008, 009, 010, 011 and 012.
Comments: One way point FOA 10 WP 8-9 skipped due to a family of bears nearby.

Team 2:

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 3200 Area
Worked performed: Intrusive investigation in 1926 Explosion Radius MRS grids 26OR-018 and 021

Comments:

DATA TRACKING:

Analog Survey Transects/Grids: Transects: FOA- 005, 006, 007, 008, 009, 010, 011 and 012.
Comments:

Items Recovered Today:
MEC/MPPEH: 0
MD: 38 lbs
CD: 106 lbs

DGM Grids/Transects: Grids: 26OR- 018 and 021

DGM Grids/Transects Reacquired: 26IR 009, 010, 011, 012, 014, and 26OR 036 and 037

Comments:

QC/QA:

Other work performed: Demo operation of the 6in projectile.

Comments: Weston coordinated through Pica Range Control and was scheduled for Gorge activities the entire day. Due to scheduling conflicts with another army activity, demo operations were interrupted/halted at 1150 via a call from JB Smith to Range Control at 1100. Chris Yonat (USACE OESS) contacted JB and confirmed that Weston was requested to leave the Demo Range NLT 1200. The Weston PM was notified of the disruption of operations, and it was noted that this will have a negative impact on the schedule. All preparatory work (drawing and transporting donor explosives and MPPEH, notifications, Fire Dept on standby at range, preparing pit, etc) were completed and seven shots planned for the day. Only one shot was completed due to time constraints and disruption of operations. The remaining items scheduled for demolition will be completed on another scheduled “demo day”.

Heavy scheduled usage of the Gorge, the number of MPPEH/DMM accumulated to date, and unknown quantities yet to be found throughout this project may impact the schedule of operations.

PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/20/2012

Describe daily QC activities: No QC's done today.

Grid QC: N/A

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce Carnal

Approval Date: 4/20/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	21 Apr 2012

WEATHER: 53-71 Mostly Cloudy

WORK LOCATION: 1- 99, Green Pond MRS, 3100 Areas and Gorge

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☒ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

Backhoe repairs - completed on 20 Apr 2012

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown

Geo Tech:

Team location: 1-99 area, Green Pond Brook

Worked performed: Intrusive investigation 1-99 area DGM grids FOA-004, 005, 006 and 007; intrusive investigation in Green Pond MRS DGM transect and Mag and Dig along banks of Green Pond Brook.

Comments: Investigation of DGM targets in Green Pond MRS is complete.

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 3100 Area
Worked performed: Intrusive investigation in 1926 Explosion Radius MRS DGM grids 26IR-010 and 012 and 26OR-036 and 037

Comments:

DATA TRACKING:

Analog Survey Transects/Grids: N/A
Comments:

Items Recovered Today:
MEC/MPPEH: 3 ea. of base fuze, and 2 ea. of PD (MK 1) fuze.
MD: 304 lbs
CD: 128 lbs

DGM Grids/Transects: Grids: 26IR- 010 and 012; 26OR 36 and 37; FOA 004, 005, 006 and 007

DGM Grids/Transects Reacquired: FOA 004, 005, 006 and 007

Comments: Fuzes were inspected, deemed safe to move, and transported/stowed in the magazine for future disposal. Location of fuzes: UTM 18N, WGS 1984 (1764624.412E, 14871180.48N).

QC/QA: QC 26OR-30, 33 and 34 - no QC failures

Other work performed: Performed clean up and pit preparation at the Gorge.

Comments: Recovered residue of 6in projectile from 20 Apr 2012 partial demo operations and prepared pit for next demo day (scheduled for 27 Apr 12).

PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/21/2012

Describe daily QC activities: QC'd in the 3100 area.

Grid QC: 26OR-030, 26OR-033 and 26OR-34

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal

Approval Date: 4/21/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	22 Apr 2012

WEATHER: 47-53 F Overcast and rain

WORK LOCATION: 1- 99, Green Pond MRS, 3100 Areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown

Geo Tech:

Team location: 1-99 area, Green Pond MRS

Worked performed: Intrusive investigation of 58 selected targets along DGM transects in 1-99 area; mag and dig in Green Pond MRS.

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 3100 Area
Worked performed: Intrusive investigation in 1926 Explosion Radius MRS DGM grids 26IR-009, 011 and 014
Comments:

DATA TRACKING:

Analog Survey Transects/Grids:
Comments:

Items Recovered Today:
MEC/MPPEH: 1 ea 75mm projectile
MD: 114 lbs
CD: 116 lbs

DGM Grids/Transects: Grids: 26IR- 009, 011 and 014

DGM Grids/Transects Reacquired: 58 Targets in 1-99 Area

Comments: 75mm projectile was unfuzed and unfired, deemed safe to move, and transported/stowed in the magazine for future disposal. Locations: UTM 18N, WGS 1984 (1761138.73E, 14870298.42N)

QC/QA: QC 26IR 012 and 014 - no QC failures

Other work performed:

Comments:

PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/22/2012

Describe daily QC activities: QC'd in the 3100 area.

Grid QC: 26IR-012, and 26IR-014.

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 4/22/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	25 Apr 2012

WEATHER: 41-56 F Mostly sunny, wind: 10-15 mph

WORK LOCATION: 1100 East; 1000 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, J. Betz, C. Stanford
Geo Tech: K. Schlosser

Team location: 1100 Area (East)
Worked performed: Mag and Dig along transects FOA 005 (775 ft), 006 (1,150 ft), 007 (1,165 ft), 008 (1,115 ft), 009 (950 ft), 010 (1,580 ft), 011 (800 ft), 012 (800 ft) and 013 (900 ft)
Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 1000 Area
Worked performed: Intrusive investigation in 1926 Explosion Radius MRS DGM grids 26IR-003, 26OR-016 and OR-019, and Analog grid 26IR- 006

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 1100 Area (East)
Worked performed: Mag and Dig along transects FOA 001 (3,400 ft), 002 (3,200 ft), 003 (2,950 ft) and 004 (2,760 ft)

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig along transects FOA 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012 and 013 (Total 21,545 ft) **Comments:**	
Items Recovered Today: **MEC/MPPEH**: 5 ea fuze (unknown model) components (detonators). Note: These are very small detonators (likely less than 5gr each NEW) **MD**: 30 lbs **CD**: 104 lbs	
DGM Grids/Transects: Intrusive Investigation Grids 26IR-003, 26OR-016 and 019	
DGM Grids/Transects Reacquired:	
Comments	
QC/QA: QC Grids: 26OR- 016, 018, 019, 021, 046, 047, 048, 049, 050, 051, 052, 053, 054, 055 and 064 - no QC failures	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/25/2012

Describe daily QC activities: QC'd in the 200 and 1500 area.

Grid QC: Mag and Dig; 26OR-046, 26OR-047, 26OR-048, 26OR049, 26OR050, 26OR-051, 26OR-052, 26OR-053, 26OR-054, 26OR-055, 26OR-064.
DGM; 26OR-016, Points 2,3,4,6,16,17,21,23
26OR-018, Points 3,4,11,12,15,16,17,26
26OR-019, Points 1,8,13,17,19,22,25,26,30,32,46
26OR-021, Points 3,8,13,16,17,19

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce Carnal Approval Date: 4/25/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	26 Apr 2012

WEATHER: 41-55 F Overcast; Wind: 5-10 mph

WORK LOCATION: 1100 East; Off Post Grids near 1390 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☐ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, J. Betz, C. Stanford
Geo Tech: K. Schlosser

Team location: 1100 Area (East)
Worked performed: Mag and Dig along transects FOA 008 (850 ft), 009 (1,025 ft), 010 (1,075 ft), 014 (1,440 ft), 015 (1,235 ft), 016 (990 ft), 017 (675 ft) and 018 (300 ft)
Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: SE of 1300 area – off-post.
Worked performed: Intrusive investigation (Mag and Dig) in Grids 26OR-065, 068, 069, 070, 071 and 103

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 1100 Area (East)
Worked performed: Mag and Dig along transects FOA 005 (1,160 ft), 006 (770 ft), 007 (775 ft), 011 (1,190 ft), 012 (1,185 ft) and 013 (1,275 ft)

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig along transects FOA 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017 and 018 (Total 13,945 ft); Mag and Dig Grids 26OR-065, 068, 069, 070, 071 and 103 **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 0 lbs **CD**: 155 lbs	
DGM Grids/Transects:	
DGM Grids/Transects Reacquired: 26OR- 038, 039, 040, 098, 099, 100 and 101, and 26IR- 007 and 008	
Comments	
QC/QA:	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey

Date: 4/26/2012

Describe daily QC activities: No QC's done today.

Grid QC: N/A

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 4/26/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	27 Apr 2012

WEATHER: 42- 53 F Mostly Cloudy; Wind 15-20

WORK LOCATION: 1100 East, 1100 West; Off Post Grids near 1390 Area, Gorge (Demo Operations)

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☐ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance.
☒ Administrative operations.	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, J. Betz, C. Stanford
Geo Tech: K. Schlosser

Team location: 1100 Area (East)
Worked performed: Mag and Dig along transects FOA 014 (705 ft), 015 (590 ft), 016 (280 ft), 017 (390 ft), 018 (500 ft), 035 (725 ft), 036 (1,080 ft), 037 (1,050 ft), 038 (2,340 ft), 039 (2,225 ft) and 040 (790 ft)
Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech: H.Culton, D.Post

Team location: SE of 1300 area – off-post
Worked performed: Intrusive investigation (Mag and Dig) in Grids 1926 Explosion Radius MRS Off Post 26OR-063, 067, 072, 073 and 074; reacquisition of DGM anomaly targets in grids 26OR- 042, 043, 045, 079, 080, 091, 092, 095 and 097, and 26IR- 004 and 013.

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: Gorge, 1100 Area (East)
Worked performed: Demo Operations at the Gorge (see comments); assisted Team 1 in 1100 Area (East)

Comments: Conducted demolition procedures on the following:
22 ea 81mm mortars
2 ea 60mm mortars
1 ea 5in common projectile
1 ea 105mm HEAT projectile
1 ea 75mm shrapnel projectile
2 ea MK I nose fuze
3 ea MK II base fuze
5 ea Fuze components (detonators)

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig along transects FOA-014, 015, 016, 017, 018, 035, 036, 037, 038, 039 and 040; Mag and Dig Grids 26OR-063, 067, 072, 073 and 074 **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 20 lbs **CD**: 85 lbs	
DGM Grids/Transects:	
DGM Grids/Transects Reacquired: 26OR- 042, 043, 045, 079, 080, 091, 092, 095 and 097 and 26IR- 004 and 013	
Comments	
QC/QA: Not performed	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/27/2012

Describe daily QC activities: No QC's done today.

Grid QC: N/A

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal II

Approval Date: 4/27/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	28 Apr 2012

WEATHER: 32- 56 F Partly Cloudy; Winds 5-10 MPH

WORK LOCATION: 900, 1100 East, 1200, 1350, 1400 and East of 3300 Areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, J. Betz, C. Stanford
Geo Tech: K. Schlosser

Team location: 1100 Area (East), Lake Demark MRS
Worked performed: Mag and Dig along transects FOA-041 (660 ft) and LDM- 046 (1,475 ft), 047 (1,310 ft), 048 (1,175 ft), 049 (1,170 ft), 050 (720 ft), 052 (120 ft), 053 (670 ft), 054 (615 ft), 055 (575 ft) and 056 (400 ft).

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: East of 1350, 1400 and East of 3300 areas (1926 Explosion Radius MRS)
Worked performed: Intrusive investigation of DGM Grids 26OR-042, 043, 045, 079, 080, 091, 092, 095, 097, 099, and 101, and 26IR-013

Comments: Two MC soil samples were collected from the Green Pond MRS (300 Marsh Area) corresponding to locations where MD/MPPEH was recovered.

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 900 Area
Worked performed: Intrusive Investigation (Mag and Dig) along transects FOA-063 (1,800 ft), 064 (2,610 ft) and 065 (3,900 ft)

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig along transects FOA-041, 063, 064 and 065, and LDM- 046, 047, 048, 049, 050, 052, 053, 054, 055 and 056 (Total 17,200 ft) **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 60 lbs **CD**: 162 lbs	
DGM Grids/Transects: Intrusive Investigation of DGM Grids 26OR-042, 043, 045, 079, 080, 091, 092, 095, 097, 099, and 101, and 26IR-013	
DGM Grids/Transects Reacquired: None	
Comments	
QC/QA: QC Grids 26IR-010 and 26OR-042, 043 and 045 – no QC failure	
Other work performed: Munitions Constituents Sampling **Comments**: Samples were taken at two locations in the Green Pond Brook MRS (300 Marsh Area)	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey

Date: 4/28/2012

Describe daily QC activities: DGM Grids in 1500 and 3100 areas. As with all prior grids, QC'd at least 20%. All passed.

Grid QC: 26IR-010, Points 1,3,4,6,10,16,17,18,21,22,26,27,35,36,37,41,46,53,54,57,58,61,67,72,79.
26OR-042, Points 1,2,4,5,6
26OR-043, Points 1,2,3,4,5,10,11,12,13,14,15,16,17
26OR-045, Points 1,2,3,4,5,6,8,9,10,11,12,13,14,16,17

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Bruce A Carnal II

Approval Date: 4/28/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	29 Apr 2012

WEATHER: 35- 59 F Clear, Winds 5-10 MPH

WORK LOCATION: 1-99 Area, Lake Denmark Area, 1100 East, 1200, 1350, 1400 and East of 3300 Areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, J. Betz, C. Stanford
Geo Tech: K. Schlosser

Team location: Lake Denmark and 1100 Area
Worked performed: Mag and Dig along transects LDM 041 (815 ft), 042 (920 ft), 043 (1,520 ft), 044 (1,235 ft), 045 (1,135 ft), 050 (360 ft), 051 (680 ft) and 052 (280 ft), and FOA 018
Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: East of 1350 and East of 3300 areas
Worked performed: Intrusive investigation of DGM Grids 26OR-038, 039, 040, 098, 100, and Analog Grid 102

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 900 Area
Worked performed: Intrusive Investigation of remaining targets along the DGM Transects in the 1-99 area
Comments:

DATA TRACKING:

Analog Survey Transects/Grids: Mag and Dig along transects FOA-018, and LDM- 041, 042, 043, 044, 045, 050, 051 and 052 (Total 6,945 ft); Mag and dig in analog Grid 102.

Comments:

Items Recovered Today:
MEC/MPPEH: 17 ea 81mm mortar; 1 ea 60mm mortar; 1 ea rifle grenade; 1 ea rifle grenade fuze
MD: 9 lbs
CD: 192 lbs

DGM Grids/Transects Reacquired:
None

Comments: MPPEH recovered was inspected, deemed safe to move, and stored in a magazine for future demolition. All items found were in Transect FOA-018.	
QC/QA: QC'd Grids 26IR-006, 013 and 016, and 26OR-078,079, 080, 091, 092, 095, 097, 098, 099, 100, 101 and 102 – No QC failures	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/29/2012

Describe daily QC activities: DGM and Mag and Dig Grids in 1000, 1300, 1400 areas. All girds QC'd at least 20%. All passed.

Grid QC: Mag and Dig Grids; 26IR-006, 26IR-016, 26OR-078, 26OR-102
DGM Grids; 26IR-013, Points1,2,3,4,5,61,12,13,14,15,16,17,18,19
26OR-079, Points 1,3,5,,8,9,10
26OR-080, Points 1,2,6,8
26OR-091, Points 2,4,7
26OR-092, Points 8,10,13,15,17,18,21,25,26,28,30,31,32,33,34,36
26OR-095, Points 3,4,6,8,10,11,15,17,24,25,27
26OR-097, Points 1,2,3,4,5,6,7,8,10,11,13,15,16,17,18,19,20
26OR-098, Points 1,3,4,6,12,13,14,15,16,27,34,35,36,38,41,42,45
26OR-099, Points 1,2,7,8
26OR-100, Points 4,10,12,13,14,17,22,24,26,27,29,30,32,34,36,37,39
26OR-101, Points 4,7,13,14,19,23,24,27,29,30,31,32,33,34,36,38,39,44,47,48,49,52,53,54,56

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce Carnal Approval Date: 4/29/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	4 Apr 2012

WEATHER: 46 - 63 Clear

WORK LOCATION: Northwest of the 200 Area (Former Code 300 Area), 1100 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

Sand (Bulk and bagged) 6cu yd., Connex 20 ft (Arcadis) delivered

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown
Geo Tech: K. Schlosser

Team location: 1100 Area
Worked performed: Marking transects, brush cutting, mag and dig in transects 18 and 19
Comments: None

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech: None

Team location: Northwest of the 200 Area (Former Code 300 Area)
Worked performed: Completed approximately 2200 ft of density transects (non intrusive) and M&D in grids 26OR 008, 009, 010
Comments:
No MD or MEC/MPPEH related materials recovered

Team 3

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel: None

UXO Tech:
Geo Tech:

Team location:
Worked performed:
Comments:

Team 4

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel: None

UXO Techs:
Geo Tech:

Team location:
Worked performed:
Comments:

DATA TRACKING:

Analog Survey Transects: Code 300 Density Transects: 2200 ft

Items Recovered Today:

MEC/MPPEH: None **MD**: 1 lb **CD**: 7 lbs	
DGM Grids: None	
DGM Grids Reacquired: None	
Comments: None	
QA/QC: None	
Other work performed: **Comments:** Project kick-off meeting held on 3 Apr 12; discussed schedule, contacts, coordination, transport of items to Gorge, scheduling of intended demo ops. A meeting was held at range control on 4 Apr 12 to discuss demo ops followed by a walk thru of the Gorge firing area, procedures for use, notifications, scheduling and co-ordination. Weston SUXOS and UXOSO/QCS also checked the magazine area with R. Morgan (ARDEC). Summary of walk-through distributed by L. Pastor (Weston PM) to Al Lennox (ARDEC Range Control) and Rodney Morgan (ARDEC) for review. Waiting on concurrence prior to a wider distribution.	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/4/2012

Describe daily QC activities: No QC done today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal

Approval Date: 4/4/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	5 Apr 2012

WEATHER: 38 – 54 Clear

WORK LOCATION: Northwest of the 200 Area (Former Code 300 Area), 1100 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location).
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown
Geo Tech: K. Schlosser

Team location: 1100 Area
Worked performed: Marking transects, brush cutting, mag and dig in transects 18 (300 ft) and 19 (1,400 ft)
Comments: Found (8) 81MM mortars (MPPEH) in transect 18, all deemed safe-to-move by SUXOS and UXOSO/QCS. Transported and stored in magazine. Location of items found: UTM 18N, WGS1984 (1756343E, 14864017N).

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: Northwest of the 200 Area (Former Code 300 Area)
Worked performed: Completed approximately 4750 ft density transects and M&D grids 26OR 004, 005, 006, 007 and 012
Comments:
No MD or MEC/MPPEH related materials recovered

Team 3

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel: None

UXO Tech:
Geo Tech:

Team location:
Worked performed:
Comments:

Team 4

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel: None

UXO Techs:
Geo Tech:

Team location:
Worked performed:
Comments:

DATA TRACKING:	
Analog Survey Transects: Density transects on 4750 ft; 1100 Area – a total of 1700 ft over transects 18 and 19.	
Items Recovered Today: **MEC/MPPEH**: (8) ea 81MM Mortar (1100 area, Transect 18) **MD**: 3 lbs **CD**: 107 lbs	
DGM Grids: None	
DGM Grids Reacquired: None	
Comments: Mortars found were inspected by SUXOS and UXOSO/QCS (also checked by Chris Yonat of USACE OESS) and deemed safe to move, transported and stored in magazine.	
QA/QC: Grids 26OR- 004, 006, 007, 008, 009 and 010 – no grid failures	
Other work performed: **Comments:**	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/5/2012

Describe daily QC activities: Performed QC on Arcadis grids in 219 Area behind 600 Area.

Grid QC: 26OR-004, 26OR-006, 26OR-007, 26OR-008, 26OR-009, 26OR-010

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 4/5/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	6 Apr 2012

WEATHER: 38 – 54 Clear

WORK LOCATION: Northwest of the 200 Area (Former Code 300 Area), 1100 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown
Geo Tech: K. Schlosser

Team location: 1100 Area

Worked performed: Marking transects, brush cutting, mag and dig in transects 16 (2,275 ft), 17 (2,025 ft), 18 (1,150 ft) and 20 (1,100 ft)

Comments: Found (1) 60mm mortar and (1) potential frag-ball in transect 16, all deemed safe to move by SUXOS and UXOSO/QC, and were transported and stored in magazine. Location of items found: UTM 18N WGS 1984 (1757169.44E, 14864049.1N).

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: Former Code 300 Area
Worked performed: Completed approximately 3,424 ft of density transects and grids 26OR 001, 002, and 003
Comments:
Found (1) 6in projectile in 26OR 003, all deemed safe to move by SUXOS and UXOSO/QC, and transported and stored in magazine. Location of items found: UTM 18N WGS 1984 (1761905.5Em 14875267.6N).

Team 3

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel: None

UXO Tech:
Geo Tech:

Team location:
Worked performed:
Comments:

Team 4

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel: None.

UXO Techs:
Geo Tech:

Team location:
Worked performed:
Comments:

DATA TRACKING:	
Analog Survey Transects: Former Code 300 Density Transects (3,425 ft total) and grids 26OR 001, 002, 003 and 012; 1100 Area Transects 16, 17, 18 and 20 (6,550 ft).	
Items Recovered Today: **MEC/MPPEH**: 6in projectile (Navy); 81mm practice mortar. **MD**: 6 **CD**: 20	
DGM Grids: None	
DGM Grids Reacquired: None	
Comments: 6in projectile and 81mm practice mortar inspected by SUXOS and UXOSO/QC and OESS deemed safe to move, and transported and stored in magazine.	
QA/QC: Grids 26OR- 001, 002, and 012 – no grid failures	
Other work performed: **Comments:**	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/6/2012

Describe daily QC activities: Performed QC on Arcadis grids in 219 Area behind 600 Area.

Grid QC: 26OR-001, 26OR-002, 26OR-005.

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 4/6/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	02 May 2012

WEATHER: 55- 59 AM Rain, PM Overcast, Winds 5-10 MPH

WORK LOCATION: 800, North of 3400 and 3600 Areas and Off Post.

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, J. Betz, C. Stanford
Geo Tech: K. Schlosser

Team location: 3600 Area

Worked performed: Mag and Dig along transects FOA 042 (210 ft), 043 (480 ft), 044 (735 ft), 045 (980 ft), 046 (1,830 ft), 047 (1,500 ft), 048 (980 ft), 049 (425 ft), and 053 (1,365 ft)

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 800 Area and Off Post
Worked performed: Intrusive investigation (Mag and Dig) of Analog Grids 26OR-024, 027 and 066

Comments: Grid 26OR-024 was started but not completed.

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: North of 3400 Area
Worked performed: Mag and Dig along Transects FOA 060 (1,785 ft), 061 (3,400 ft), 062 (3,500 ft), 063 (1,820 ft) and 064 (1,115 ft)
Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig along transects FOA-042, 043, 044, 045, 046, 047, 048, 049, 053, 060, 061, 062, 063 and 064 (Total 20,125 ft). Mag and Dig of Analog Grids: 26OR-024, 027 and 066. **Comments:** Intrusive investigation of Grid 26OR-024 is incomplete.	
Items Recovered Today: **MEC/MPPEH**: 37mm projectile. **MD**: 9 lbs **CD**: 192 lbs	
DGM Grids/Transects:	
DGM Grids/Transects Reacquired: 26IR-002	
Comments: The 37mm projectile was inspected, deemed safe to move and transported to the magazine for future disposal. Location of item: UTM 18N WGS 1984 (1764657.28E, 14876657.20N).	
QC/QA: None Performed	
Other work performed: 13 soil samples and 2 re-samples were collected behind the 300 Area marsh in the Green Pond Brook MRS **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/02/2012

Describe daily QC activities: No QC's done today.

Grid QC: N/A

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Bruce A Carnal

Approval Date: 5/02/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	03 May 2012

WEATHER: 49-63 F, Rain, Winds 0-5 MPH

WORK LOCATION: 800 and East of 1500 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, J. Betz, C. Stanford
Geo Tech: K. Schlosser

Team location: East of 1500 Area

Worked performed: Mag and Dig along transects FOA 049 (970 ft), 050 (1,270 ft), 051 (790 ft), 052 (1,340 ft) and 054 (1,160 ft).

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, M.Fiedler, W.Strum, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech: H.Culton, D.Post

Team location: 800 Area
Worked performed: Mag and Dig of Analog Grids 26OR-023, 024, 029, 032 and 26IR-001, and Intrusive Investigation of DGM Grid 26IR-002.

Comments: 24in soil samples collected.

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: East of 1500 Area
Worked performed: Mag and Dig along transects FOA-055 (1,500 ft), 056 (1,870 ft), 057 (2,020 ft), 058 (1,960 ft), 059 (2,010 ft) and 060 (715 ft).

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig along transects FOA-049,050, 051, 052, 054, 055, 056, 057, 058, 059 and 060 (Total 15,605 ft). Mag and Dig of Analog Grids: 26OR-023, 024, 029, 032 and 26IR-001. **Comments:**	
Items Recovered Today: **MEC/MPPEH**: 1 ea 37mm projectile, 1 ea 75mm projectile, 2 ea 3in stokes mortar and 1 ea 3.5in rocket body (possible live fuze) **MD**: 559 lbs **CD**: 208 lbs	
DGM Grids/Transects: Intrusive investigation in grid 26IR-002	
DGM Grids/Transects Reacquired:	
Comments: All MPPEH found was inspected, deemed safe to move and transported to the magazine for future disposal.	
QC/QA:	
Other work performed: 24 soil samples were collected. **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/03/2012

Describe daily QC activities: Grids in the 800 area and the off base rights of entry area.

Grid QC: Mag and dig grids 26OR-023, 26OR-024, 26OR-065, 26OR-068, 26OR-069, 26OR-070, 26OR-071, 26OR-072, 26OR-073, 26OR-103.

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce Carnal

Approval Date: 5/03/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	04 May 2012

WEATHER: 54- 79 Overcast, Winds 5-10 MPH

WORK LOCATION:

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, J. Betz, C. Stanford
Geo Tech: K. Schlosser

Team location: Site 20/24 and Dredge Pile Areas.

Worked performed: Intrusive investigation of selected targets along DGM transects in 20/24 and Dredge Pile Areas.

Comments: J. Betz demobe (work till 1200)

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, M. Fiedler, W. Sturm, J. Hill, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 3000, 3300 Areas
Worked performed: Mag and Dig of Analog Grids 26OR-041 and 044, and Intrusive Investigation of DGM Grids 26IR-004, 007 and 008.

Comments: Two personnel scouting access routes. Two personnel (Hains and Ingram) demobe at COB.

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: Gorge (Demo); 20/24 and Dredge Pile Areas

Worked performed: Conducted demolition procedures on the following:
17 ea 81mm mortars
1 ea 60mm mortars
1 ea Rifle grenade
2 ea 37mm projectile
1 ea 75mm projectile
2 ea 3in stokes mortar
1 ea 3.5in rocket (empty body, but possible live fuze)

Intrusive investigation of selected targets along DGM transects in 20/24 and Dredge Pile areas (assisted Team 1).

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig of Analog Grids: 26OR-041 and 044. **Comments:**	
Items Recovered Today: **MEC/MPPEH**: 1 ea 60mm practice mortar, (possible spotting charge). **MD**: 173 lbs **CD**: 73 lbs	
DGM Grids/Transects: Intrusive investigation in grids 26IR-.004, 007 and 008, and selected targets in DGM transects in the 20/24 and Dredge Pile areas.	
DGM Grids/Transects Reacquired: Selected targets in DGM transects in the 20/24 and Dredge Pile areas	
Comments: MPPEH (60MM) was inspected, deemed safe to move and transported to the magazine for future disposal. Item located in 20/24 Area near building S72. See attached map.	
QC/QA: None Performed	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/04/2012

Describe daily QC activities: No QC's performed today.

Grid QC: N/A.

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 5/04/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	05 May 2012

WEATHER: 55- 68 Overcast, morning fog, Winds 5-10 MPH

WORK LOCATION: Dredge Pile Area, 800 and 1300 areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, C. Stanford
Geo Tech: K. Schlosser

Team location: Dredge Pile Areas

Worked performed: Intrusive investigation of selected targets along DGM transects in Dredge Pile Area

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: M. Fiedler, W. Sturm, J. Hill, N. Cox, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 800 and 1300 Areas
Worked performed: Mag and Dig of Analog Grids 26IR-005 and 015, and 26OR-022, 025 and 081

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance.
☒ Administrative operations.	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: Dredge Pile Areas

Worked performed: Intrusive investigation of selected targets along DGM transects in Dredge Pile areas

Comments: Dredge Pile area approx. 65% complete – significant contamination, large rocks and several deep targets hampering progress.

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig of Analog Grids: 26IR- 005 and 015 and 26OR- 022, 025 and 081 **Comments:**	
Items Recovered Today: **MEC/MPPEH**: 8 ea BLU 3B (inert)* **MD**: 118 lbs **CD**: 85 lbs Comment: * All visible indications on the BLU-3's are for completely inert rounds, however, they will be treated as MPPEH until verified on our next demo day.	
DGM Grids/Transects: Intrusive investigation of selected targets along DGM transects in the Dredge Pile area.	
DGM Grids/Transects Reacquired: Selected targets along DGM transects in the Dredge Pile area.	
Comments: (8) BLU 3B (inert) are located within the Dredge Piles adjacent to the Former Sanitary Landfill. See the attached map.	
QC/QA: None performed	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/05/2012

Describe daily QC activities: No QC's performed today.

Grid QC: N/A.

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A. Carnal Approval Date: 5/05/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	06 May 2012

WEATHER: 50- 63 Overcast, Winds 5-10 MPH

WORK LOCATION: 1300 and Green Pond Brook areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance.
☒ Administrative operations.	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, C. Stanford
Geo Tech: K. Schlosser

Team location: Green Pond Area

Worked performed: Mag and Dig in Green Pond areas SSW of bldg 314E and E of bldg 314D

Comments: 12 small glass vials (approx. 3”x1/4”) were found, one contained liquid. Items were found in one area, GPS location taken and position flagged. Will inform base safety/environmental office.

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: M. Fiedler, W. Sturm, J. Hill, N. Cox, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 1300 Area
Worked performed: Mag and Dig of Analog Grids 26OR-076, 077, 082, 083, 084 and 085

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: Green Pond Brook Area

Worked performed:
Mag and Dig in Green Pond areas SSW of bldg 314E and E of bldg 314D

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig of Analog Grids: 26OR-076, 077, 082, 083, 084 and 085 Mag and Dig in Green Pond Area **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 3 lbs **CD**: 232 lbs	
DGM Grids/Transects:	
DGM Grids/Transects Reacquired: Reacquired DGM transects in the Waste Burial Area	
Comments:	
QC/QA: Grids 26IR-003, 004, 005, 007, 008, 009 and 011, and 26OR-036, 037, 038, 039 and 040 – no QC failure	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/06/2012

Describe daily QC activities: Performed Grid QC in various areas. 20% of targets or grid QC'd at a minimum.

Grid QC: Mag and Dig Grid; 26IR-005
DGM Grids; 26IR-003 Points 2,3,9,15,23,30,31,36,37,38,40,42
26IR-004 Points 1,2,3,8,10,11,12,13,14,15,17,20,25,26,28,29,34,39,41,44,49,55,66,71,83,88,93,96,102,103,106, 112,114
26IR-007 Points 1,2,3,5,6,8,9,10,14,18,19,20,21,24,27
26IR-008 Points 5,7,9,11,13,14,16,17,18,19,21,23,25,27,29,30,33,35,42
26IR-009 Points 2,4,6,7,9,12,25,26,27,29,30,40,41,44,49,51,52,56
26IR-011 Points 6,7,9,10,18,19,29,30,31,37,38,39,40,42
26OR-036 Points 1,2,3,5,6,9,10,11,12,13,14,15,17,18,19
26OR-037 Points 1,2,3,4.6.8.9.10.11
26OR-038 Points 1,3,4,5,9,10,11,14,29,30,36,38,44
26OR-039 Points 1,2,3,4,5,7,8,9,10,12,13,15,16,17,18,19,20,21,22
26OR-040 Points 2,6,10,13,16,19,21,22,31,38,44,47,49,51,61,69

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal Approval Date: 5/06/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	09 May 2012

WEATHER: 58- 71 Overcast, Winds 5-10 MPH

WORK LOCATION: 1100 and 1200 areas and off post grids

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, C. Stanford
Geo Tech: K. Schlosser

Team location: Dredge Pile and Waste Burial Area

Worked performed: Intrusive investigation of selected targets along DGM transects in the Dredge Pile and Waste Burial Areas.

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: M. Fiedler, W. Sturm, J. Hill, N. Cox, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: Off Post Grids
Worked performed: Mag and Dig of Analog Grids 26OR-056, 057, 058, 059, 060, 061 and 062.

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: Lake Denmark

Worked performed:
Mag and Dig along Lake Denmark transects 001 (315 ft), 002 (220 ft), 003 (245 ft), 004 (840 ft), 005 (880 ft), 006 (885 ft), 007 (900 ft), 008 (960 ft), 009 (980 ft), 010 (1,020 ft), 011 (1,110 ft), 012 (1,110 ft) and 013 (1,000 ft).

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig of Analog Grids 26OR-056, 057, 058, 059, 060, 061 and 062. Mag and Dig Lake Denmark transects 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012 and 013 (Total 10,565 ft). **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 49 lbs **CD**: 83 lbs	
DGM Grids/Transects: Intrusive investigation of selected targets along DGM transects in the Dredge Pile and Waste Burial Areas.	
DGM Grids/Transects Reacquired: None	
Comments:	
QC/QA: Grids 26IR-001 and 002 and 26OR-022, 025, 027, 029, 031, 035, 041 and 044 – No grid failures	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/09/2012

Describe daily QC activities: Performed Grid QC in various areas. 20% of targets or grid QC'd at a minimum.

Grid QC: Mag and Dig Grid; 26IR-001, 26OR-022, 26OR-025, 26OR-027, 26OR-029, 26OR-041, 26OR-044
DGM Grids; 26IR-001, Points 4,5,21,26,30,31,33,40,42,44,48,50,51,52,55
26OR-031, Points 1,2,6,7
26OR-035, Points 6,7,8

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal Approval Date: 5/09/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	10 May 2012

WEATHER: 53- 62 Partly Cloudy, Winds 10-15 MPH

WORK LOCATION: 200, 900 and 1100 areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, C. Stanford
Geo Tech: K. Schlosser

Team location: Waste Burial and Dredge Pile Areas.

Worked performed: Intrusive investigation of selected targets along DGM transects in the Waste Burial Area and Mag and Dig in the Dredge Pile Area.

Comments: Mag and dig beyond Dredge Pile transects to help delineate extent of contamination and evaluate large pile to NE of transects.

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: M. Fiedler, W. Sturm, J. Hill, N. Cox, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 200 and 900 Areas
Worked performed: Mag and Dig of Analog Grids 26IR-017, and 26OR-026, 028 and 075.

Comments: Last work day for M. Fiedler.

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 900 Area

Worked performed:
Mag and Dig along transects 070 (1,430 ft), 071 (4,205 ft), 072 (0 ft) and 073 (0 ft).
Intrusive investigation of selected targets along DGM transects in 900 Area

Comments: Transects 072 and 073 are inaccessible due to steep/rough terrain.

DATA TRACKING:

Analog Survey Transects/Grids:

Mag and Dig of Analog Grids 26IR-017, and 26OR-026, 028 and 075.

Mag and Dig along transects 070, 071, 072 and 073 (Total 5,635 ft) in the 900 area.

Comments: Transects 072 and 073 are inaccessible due to steep/rough terrain.

Items Recovered Today:
MEC/MPPEH: None
MD: 20 lbs
CD: 204 lbs

DGM Grids/Transects: Intrusive investigation of selected targets along DGM transects in the Waste Burial and 900 Areas.

DGM Grids/Transects Reacquired: Reacquired selected targets along DGM transects in the Waste Burial area and the 900 area; and reacquired targets along DGM transects in the Waste Burial Area.

Comments:

QC/QA:
None performed

Other work performed:

Comments: A meeting/interview was held with Mr. John Rigalo (former PTA employee) to gather more information concerning activities in the "rice paddy" area and potential mortar firing points/direction of fire south of the Shinkle Rd/Brook Rd. intersection. Present were Mr. J. B. Smith (PTA, MMRP Safety), C. Yonat (USACE Balt. Dist. OESS) and L. Pastor (PM), W. Hess (SUXOS) and B. Carnal (UXOSO/QC) (WESTON).

PREPARED BY:	**SIGNATURE:**
Walter F. Hess	

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/10/2012

Describe daily QC activities: None performed today.

Grid QC: N/A

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 5/10/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	11 May 2012

WEATHER: 53- 62 Mostly sunny, Winds 10-15 MPH

WORK LOCATION: Former Code 300 Area, 900 Area, and 1100 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

4 ea 55 gal drums, good condition, for storing MD and CD.

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, C. Stanford
Geo Tech: K. Schlosser

Team location: Waste Burial Area

Worked performed: Intrusive investigation of selected targets along DGM transects in the Waste Burial Area.

Comments: Slow going due to significant amount of MD at each target area.

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: M. Fiedler, W. Sturm, J. Hill, N. Cox, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: Former Code 300 Area

Worked performed: Re-investigate portions of the Former Code 300 density transects to clarify and supplement data gathered earlier in the project.

Comments: 17 Areas along the density transects have been identified for the additional investigation, of which 9 were completed today.

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 900 Area

Worked performed:
Intrusive investigation of selected targets along DGM transects in 900 Area.

Comments: To date, 102 of 262 targets have been completed along these DGM transects.

DATA TRACKING:	
Analog Survey Transects/Grids: **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 75 lbs **CD**: 110 lbs	
DGM Grids/Transects: Intrusive investigation of selected targets along DGM transects in the Waste Burial Area and the 900 Area	
DGM Grids/Transects Reacquired: Reacquired selected targets along DGM transects in the 900 area.	
Comments:	
QC/QA: QC of grids 26IR-015 and 017, and 26OR-028, 032, 056, 057, 058, 059, 060, 061, 062, 063, 065, 066, 067, 074, 075, 076, and 077 – no grid failures	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/11/2012

Describe daily QC activities: QC'd the remaining off base grids and some on base grids. 20% of the grid QC'd at a minimum. All grids passed QC.

Grid QC: Mag and Dig Grid; 26IR-015, 26IR-017, 26OR-028, 26OR-056, 26OR-057, 26OR-058, 26OR-059, 26OR-060, 26OR-061, 26OR-062, 26OR-063, 26OR-066, 26OR-067, 26OR-074, 26OR-075, 26OR-076, 26OR-077.

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 5/11/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	12 May 2012

WEATHER: 49-75 F, Clear, Winds 10-15 MPH

WORK LOCATION: Code 300, 900 and 1100 areas

WORK COMPLETED:

- ☐ Surveyor activities.
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids).
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, C. Stanford
Geo Tech: K. Schlosser

Team location: Waste Burial Area

Worked performed: Intrusive investigation of selected targets along DGM transects in the Waste Burial Area.

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: W. Sturm, J. Hill, N. Cox, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: Code 300 Area

Worked performed: Re-investigate portions of the Code 300 density transects to clarify and supplement data gathered earlier in the project. Eight areas completed today.

Mag and Dig analog grid 26IR-018.

Comments: The 17 areas identified for additional investigation along the transects have been completed.

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 900 Area

Worked performed: Mag and Flag along density transects C30-007 (220 ft), 008 (1,300 ft), 009 (390 ft), 010 (160 ft), 011 (40 ft), 012 (80 ft), 013 (230 ft), 014 (530 ft), 015 (660 ft), 016 (990 ft) and 017 (330 ft).

Mag and dig along transects FOA 037 (2,245 ft) and 073 (480 ft) and IMW- 001 (140 ft).

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Flag along transects C30-007, 008, 009, 010, 011, 012, 013, 014, 015, 016 and 017 (Total 4,930 ft); Mag and dig along transects FOA 037 and 073 and IMW- 001 (Total 2,865 ft); Mag and dig grid 26OR-018. **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 153 lbs **CD**: 57 lbs	
DGM Grids/Transects: Intrusive investigation of selected targets along DGM transects in the Waste Burial Area.	
DGM Grids/Transects Reacquired: Reacquired along DGM transects in the 20/24 area	
Comments:	
QC/QA: QC of grids 26OR-026, 081, 082, 083, 084 and 085 and 26IR-018 – no grid failures	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/12/2012

Describe daily QC activities: QC'd the remaining 1926 grids. 20% of the grid QC'd at a minimum. All grids passed QC.

Grid QC: Mag and Dig Grid; 26OR-026, 26OR-081, 26OR-082, 26OR-083, 26OR-084, 26OR-085 and the add on grid 26IR-018. Also did not report grid 26OR-032 on 5/09/12, but it was QC'd that date and passed. All 1926 Grids have been QC'd and passed.

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal

Approval Date: 5/12/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	13 May 2012

WEATHER: 56-75 F, Clear, Winds 5-10 MPH

WORK LOCATION: 1000, 1100, 1400 and 3300 areas

WORK COMPLETED:

- ☐ Surveyor activities.
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, C. Stanford
Geo Tech: K. Schlosser

Team location: Waste Burial Area

Worked performed: Intrusive investigation of selected targets along DGM transects in the Waste Burial Area.

Comments: 34 targets remain to be investigated in this area.

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance.
☒ Administrative operations.	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: W. Sturm, J. Hill, N. Cox, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 1000, 1400 and 3300 Areas

Worked performed: Restored (back fill, remove pin flags and stakes) 35 grids.
Re-acquired grid corners for 7 grids 26OR-002, 006, 007, 009, 033 and 088.

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 20/24 Area

Worked performed: Intrusive investigation of selected targets along DGM transects in the 20/24 Area

Comments: 92 targets remain to be investigated in this area.

DATA TRACKING:	
Analog Survey Transects/Grids: **Comments:**	
Items Recovered Today: **MEC/MPPEH**: 1 ea 60mm WP mortar; 1 ea M32 type sub-munition (likely practice); 3 ea 81mm practice mortars (possible spotting charge). **MD**: 95 lbs **CD**: 77 lbs **Comment:** All MPPEH/MEC were found in the 20/24 Area. A guard was posted overnight for the 60mm mortar and sub-munition that were left in place in the 20/24 area. EOD will evaluate items on 14 May 2012.	
DGM Grids/Transects: Intrusive investigation of selected targets along DGM transects in the Waste Burial and 20/24 Areas.	
DGM Grids/Transects Reacquired: Re-acquired grid corners for 7 grids 26OR-002, 006, 007, 009, 033 and 088.	
Comments:	
QC/QA: QC of grids FOA-04, 05, 06 and 07, in addition to transects DGM targets in FOA-S area (1-99 Area) – no failures	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/13/2012

Describe daily QC activities: QC'd Southern FOA Area, Grids and Transects.

Grid QC: DGM; FOA-4 Targets 1,2,5,9,10,12,15,16
FOA-5 Targets 1,2,3,4,5,6,8,10,11
FOA-6 Targets 2,3,4,7
FOA-7 Targets 2,3,4,66,8,9,10

Transect QC: DGM; FOA Targets
690,691,694,695,705,710,719,720,721,722,723,972,973,975,976,977,978,980,981,982,984,1741,1742,1743,1744,1745,1746,1747,1748,1871,1872,1873,1874,1875,1876,1900,1901,1902,1924,2170,2171,2172,2173,2174,2253,2254,2255,2256,2257

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal Approval Date: 5/13/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	16 May 2012

WEATHER: 59-77 F, Partly Cloudy, Winds 5 - 10 MPH

WORK LOCATION: 1100, 3300 and Code 300 areas

WORK COMPLETED:

- ☐ Surveyor activities.
- ☐ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: K. Schlosser

Team location: 20/24 Area

Worked performed:

Comments: R. Shellenbarger out today, C. Stanford and K. Schlosser assisting Team 3.

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: W. Sturm, N. Cox, J. Brawner
Geo Tech:

Team location: Code 300 Areas

Worked performed:
Delineated boundaries around grid 26IR-010.

Re-acquired grid corners for grids 26OR- 047, 048, 052, 053 and 071.

Re-investigated portions of the Code 300 density transects to clarify and supplement data gathered earlier in the project. Nine additional areas completed today.

Restored (back filled, removed pin flags and stakes) 5 grids.

Comments: J. Hill, T. Lolotai and R. Lolotai demobed on 15 May 12.

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 20/24 Area

Worked performed: Intrusive investigation of selected targets along DGM transects in the 20/24 Area

Comments: 181 selected targets have been intrusively investigated in this area, 4 targets remain to be investigated and 7 are underwater and cannot be intrusively investigated.

DATA TRACKING:	
Analog Survey Transects/Grids: **Comments:**	
Items Recovered Today: **MEC/MPPEH**: 1 ea 60mm practice mortar; 1 ea 81mm practice mortar (possible spotting charge); 1 ea 40mm HE grenade (DMM); and 1 ea 60mm HE mortar (DMM). **MD**: 60 lbs **CD**: 10 lbs **Comment:** All MEC/MPPEH listed were inspected, deemed safe to move and stowed in the magazine.	
DGM Grids/Transects: Intrusive investigation of selected targets along DGM transects in the 20/24 Area	
DGM Grids/Transects Reacquired:	
Comments:	
QC/QA: None performed	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/16/2012

Describe daily QC activities: No QC's done today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Bruce A Carnal

Approval Date: 5/16/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	17 May 2012

WEATHER: 50-69 F, Clear, Winds 5 - 10 MPH

WORK LOCATION: 1100 and 3600 areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids).
- ☒ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: K. Schlosser

Team location: Waste Burial Area; FOA Transect 18

Worked performed: Intrusive investigation of selected targets along DGM transects in the Waste Burial Area; and conducted Mag and Dig operations in transect FOA-018.

Comments: Waste Burial Area is complete, all targets intrusively investigated.

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: W. Sturm, N. Cox, J. Brawner
Geo Tech:

Team location: N/A

Worked performed: Subcontractor personnel (ARCADIS) and equipment demobilized.

Comments: W. Sturm, N. Cox, and J. Brawner demobilized from site 17 May 12.

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 20/24 Area, 3600 Area

Worked performed: Intrusive investigation of selected targets along DGM transects in the 20/24 Area; Mag and Dig transects FOA- 047 (450 ft), 048 (970 ft), 049 (1,010 ft), 050 (935 ft), 051 (650 ft), 052 (145 ft) and 054 (240 ft).

Comments: 20/24 area complete. 7 targets were not dug due to water.

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig transects FOA-018, 047, 048, 049, 050, 051, 052 and 054 (Total 4,400 ft) **Comments:**	
Items Recovered Today: **MEC/MPPEH**: 9 ea 81mm practice mortars, and 1 ea 60mm practice mortar (possible spotting charges) **MD**: 5 lbs **CD**: 43 lbs **Comment:** All MEC/MPPEH listed were inspected, deemed safe to move and stowed in the magazine.	
DGM Grids/Transects: Intrusive investigation of selected targets along DGM transects in the 20/24 and Waste Burial Areas.	
DGM Grids/Transects Reacquired:	
Comments: All MPPEH items were found during an additional investigation of Transect 18.	
QC/QA: Re-inspection of FOA Transect 18 – no failures. CENAB Form 948 issued by OESS for grids: 26IR-001 thru 26IR-017, and 26OR-001 thru 26OR103 – no QC failures	
Other work performed: Conducted investigation of areas near FOA Transect 18 to help delineation extent of mortars in the area. **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/17/2012

Describe daily QC activities: Transect 18 Re-inspection.

Grid QC: N/A

Transect QC: Transect 18 Re-inspection between waypoints 7 and 8. Passed Re-inspection and QC.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 5/17/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	31 May 2012

WEATHER: 60-76 F, Mostly sunny, Winds 5 - 10 MPH

WORK LOCATION: Lake Denmark, 1100 and 3100 area (Shell Burial Grounds)

WORK COMPLETED:

- ☐ Surveyor activities.
- ☒ Mag and Dig activities (List grid or location)
- ☐ Intrusive Investigation of DGM anomaly targets (List grids
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: Ken Schlosser

Team location: Lake Denmark, 1100 area

Worked performed: Mag and Dig along Lake Denmark shoreline (NE); and Mag and Dig along Transects FOA 020 (565 ft), 021 (780 ft) and 022 (535 ft).

Comments:

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:
UXO Techs:
Geo Tech:
Team location:
Worked performed:
Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Brown
Geo Tech:

Team location: Shell Burial Grounds

Worked performed: Conducted an analog survey to further define the extensively contaminated area surrounding/near grid 26IR-010.

Shell Burial Grounds (East) – Mag and dig 3 transects to the NW of previously gathered DGM data to better define the extent/type of metallic contamination.

Comments:

DATA TRACKING:

Analog Survey Transects/Grids:
Mag and Dig along Lake Denmark shoreline (NE).

Mag and Dig along Transects FOA 020, 021 and 022 (Total 1,880 ft).

Conducted analog survey to further define the extensively contaminated area surrounding/near grid 26IR-010.

Shell Burial Grounds (East) – Mag and dig 3 transects to the NW of previously gathered DGM data to better define the extent/type of metallic contamination.

Comments:

Items Recovered Today:

MEC/MPPEH: None

MD:100 lbs
CD: 0 lbs

Comment:

DGM Grids/Transects:

DGM Grids/Transects Reacquired:

Comments:

QC/QA: None performed

Other work performed:
Conducted demob activities (pack field equipment, etc), field teams demob/travel day 01 JUNE 2012.

Comments:

PREPARED BY:	**SIGNATURE:**
Walter F. Hess	

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/31/2012

Describe daily QC activities: No QC's done today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal Approval Date: 5/31/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	24 Sept 2012

WEATHER: 44-63 F, Clear, Winds 5 - 10 MPH

WORK LOCATION: Code 300 Area

WORK COMPLETED:

- ☐ Surveyor activities.
- ☒ Mag and Dig activities (List grid or location).
- ☐ Intrusive Investigation of DGM anomaly targets (List grids).
- ☐ Reacquisition of DGM anomaly targets (List grids).
- ☐ Grid QC List (List completed grids).
- ☐ Grid QA (CENAB-List completed grids).
- ☐ Munitions Constituents Sampling.
- ☐ UXO Technician Escort activities.
- ☐ Equipment Transport (mob/demob to/from site-List).
- ☒ Equipment Maintenance.
- ☐ Equipment Issues (List below).
- ☐ Background Soil Sampling.

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1 (Arcadis)

☒ Team check out.	☒ Equipment check (instrument verification).
☒ Mag and Dig	☐ Equipment Maintenance.
☒ Administrative operations.	☒ Team tailgate safety brief (conducted by team leader).

Team Personnel: (Arcadis)

UXO Tech: D. McFadden (T/L), B. Roberts (T1), J. Sweeny (T1), J. O'Neil (T2), H. Harman (T2)

Geo Tech: S. Stacy

Team location: Grids Code300-01 and 02

Worked performed: Mag and Dig

Comments: Completed grids Code300-01 and 02

DATA TRACKING:

Analog Survey Transects/Grids: Mag and Dig Grids: Code300-01 and 02.

Comments:

Items Recovered Today:

MEC/MPPEH:

MD: .02 lb

CD: 12 lb

Comment: 1 small piece of frag found on Grid Code300-01. Additionally an empty 105MM proj (MD) was found outside grid Code300-02.

DGM Grids/Transects:

DGM Grids/Transects Reacquired:

Comments:

QC/QA:
No QC/QA conducted today.

Other work performed: PTA safety briefs for new personnel. Initial in-briefs and Site health and safety briefs and review conducted on site.

GPS/install grid corners.

Comments:

PREPARED BY:	
Walter F. Hess	**SIGNATURE:**

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	25 Sept 2012

WEATHER: 43 - 68 F, Clear, Winds 5 - 10 MPH

WORK LOCATION: Code 300 Area

WORK COMPLETED:

- ☐ Surveyor activities.
- ☒ Mag and Dig activities (List grid or location).
- ☐ Intrusive Investigation of DGM anomaly targets (List grids).
- ☐ Reacquisition of DGM anomaly targets (List grids).
- ☒ Grid QC List (List completed grids).
- ☐ Grid QA (CENAB-List completed grids).
- ☐ Munitions Constituents Sampling.
- ☐ UXO Technician Escort activities.
- ☐ Equipment Transport (mob/demob to/from site-List).
- ☒ Equipment Maintenance.
- ☐ Equipment Issues (List below).
- ☒ Background Soil Sampling.

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out.	☒ Equipment check (instrument verification).
☒ Mag and Dig.	☐ Equipment Maintenance.
☒ Administrative operations.	☒ Team tailgate safety brief (conducted by team leader).

Team Personnel: (Arcadis)

UXO Tech: D. McFadden (T/L), B. Roberts (T1), J. O'Neil (T1), J. Sweeny (T2), H. Harman (T2)

Geo Tech: S. Stacy

Team location: Grids Code300-04, 06, 08 and 10.

Worked performed: Mag and Dig

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig Grids: Code300-04, 06, 08 and 10. **Comments:**	
Items Recovered Today: **MEC/MPPEH**: 0 **MD**: 5 lbs **CD**: 40 lbs **Comment:**	
DGM Grids/Transects:	
DGM Grids/Transects Reacquired:	
Comments:	
QC/QA: QC Grids Code300- 01, 02, 04, 06, 08 and 10 – all passed.	
Other work performed: Soil Sampling conducted by S. Stacy and D. Post, H.Harman (T2) escort. GPS/install grid corners. **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	26 Sept 2012

WEATHER: 53-72 F, Overcast, Possible Showers, Winds 10 - 15 MPH

WORK LOCATION: Code 300 Area

WORK COMPLETED:

- ☐ Surveyor activities.
- ☒ Mag and Dig activities (List grid or location).
- ☐ Intrusive Investigation of DGM anomaly targets (List grids).
- ☐ Reacquisition of DGM anomaly targets (List grids).
- ☒ Grid QC List (List completed grids).
- ☐ Grid QA (CENAB-List completed grids).
- ☐ Munitions Constituents Sampling.
- ☐ UXO Technician Escort activities.
- ☐ Equipment Transport (mob/demob to/from site-List).
- ☒ Equipment Maintenance.
- ☐ Equipment Issues (List below).
- ☐ Background Soil Sampling.

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☐ Equipment Maintenance.
☒ Administrative operations.	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel: (Arcadis)

UXO Tech: D. McFadden (T/L), B. Roberts (T1), J. Sweeny (T1), J. O'Neil (T2), H. Harman (T2)

Geo Tech: S. Stacy

Team location: Grids Code300-03, 05, 07 and 12

Worked performed: Mag and Dig

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig Grids: Code300-03, 05, 07 and 12 **Comments:**	
Items Recovered Today: **MEC/MPPEH**: 0 **MD**: 1 lb **CD**: 109 lb **Comment:**	
DGM Grids/Transects:	
DGM Grids/Transects Reacquired:	
Comments:	
QC/QA: Code 300 grids: Code300-03, 05, 07 and 12.	
Other work performed: GPS/install grid corners, this task is complete. **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	27 Sept 2012

WEATHER: 53-72 F, Winds 05 - 10 MPH, Partly cloudy (AM) to sunny.

WORK LOCATION: Code 300 Area

WORK COMPLETED:

- ☐ Surveyor activities.
- ☒ Mag and Dig activities (List grid or location).
- ☐ Intrusive Investigation of DGM anomaly targets (List grids).
- ☐ Reacquisition of DGM anomaly targets (List grids).
- ☒ Grid QC List (List completed grids).
- ☒ Grid QA (CENAB-List completed grids).
- ☐ Munitions Constituents Sampling.
- ☐ UXO Technician Escort activities.
- ☐ Equipment Transport (mob/demob to/from site-List).
- ☒ Equipment Maintenance.
- ☐ Equipment Issues (List below).
- ☐ Background Soil Sampling.

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out.	☒ Equipment check (instrument verification).
☒ Mag and Dig.	☐ Equipment Maintenance.
☒ Administrative operations.	☒ Team tailgate safety brief (conducted by team leader).

Team Personnel: (Arcadis)

UXO Tech: D. McFadden (T/L), B. Roberts (T1), J. Sweeny (T1), J. O'Neil (T2), H. Harman (T2)

Geo Tech:

Team location: Code 300 Grids: Code300-09, 11 and 13

Worked performed: Mag and Dig

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig Grids: Code300-09, 11 and 13 **Comments:**	
Items Recovered Today: **MEC/MPPEH**: 0 **MD**: 0 lbs **CD**: 7 lbs **Comment:**	
DGM Grids/Transects:	
DGM Grids/Transects Reacquired:	
Comments:	
QC/QA: Grids: Code300-09, 11 and 13 – all pass.	
Other work performed: **Comments**: All grids (Code300-01 through Code300-13) are complete and have passed QC and QA.	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

SHELL BURIAL GROUNDS MRS

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12 Jan 2012, 0700 - 1700

WEATHER/TEMPERATURE: Cold and Rain 48 high/41 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

EM31 Data was collected in the following areas:

- Former Operational Areas MRS (1100 Area) - Dredge Piles
- Former Operational Areas MRS (1100 Area) – Former Sanitary Landfill
- Shell Burial Grounds MRS (3100 Area)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 13 Jan 2012: DGM data collection in 1100 area, and 300 area within the Greenpond MRS.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Safety Meeting Attendance Log

Date:	12 January, 2012	Time:	0700	Contract Number:	W912DR-09-D-0006

Delivery Order Number:	0002	Location:	PTA RI, Picatinny Arsenal, Dover, NJ

Weather Conditions:	90-10% chance of precipitation. High Temp: 48F Low Temp: 41F Current Temp: 41F. E-SSW @ 10 to 20 mph. Sunrise: 0722 Sunset: 1650 Humidity: 89-66%

I. Safety Meeting Topic (Briefly describe):	Cold stress, hypothermia, and dehydration in wet conditions, MEC concerns for 1100 area, and first aid treatment for minor wounds.

II. Attendees:	

Name	Signature	Company
Laura Pastor		Weston
Ryan Steigerwalt		Weston
Brian Junck		Weston
Brian Guthrie		Weston
Paul Novak		Weston
Bruce Carnal		Weston
MEGAN GARRETT		USACE

III. Verification:

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Site Safety Officer: Brian Junck Date

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	13 Jan 2012, 0700 - 1700

WEATHER/TEMPERATURE: Cold and windy with occasional snow 39 high/33 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

EM31 Data was collected in the following areas:

- Shell Burial Grounds MRS (3100 Area)
- Green Pond MRS (300 Area)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 16 Jan 2012: DGM data collection in 1100 area.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	26 Jan 2012, 0700 - 1700

WEATHER/TEMPERATURE: Cold and clear 38 high/30 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

858 Magnetometer transect data collection was performed in the following areas:

- Shell Burial Grounds (3100 Area)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 27 Jan 2012: 858 Magnetometer DGM Data collection in the Shell Burial Grounds MRS (3100 Area).

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 1/27/2012
Weather Conditions: 80-20% Precip, Wind-S-W 10-15 MPH, Humidity, 100-56%	Temperature: 37-57F

Safety Discussion and Issues: MEC anticipated in the Shell Burial Grounds, FOA Areas.

QC Discussion and Issues: Lane set up for the MAG, EM61.

Other Discussion and Issues: Slips Trips and Falls, Dead Fall, Vines and Brambles, Rain Slick Woods.

Acknowledgement

Name	Company	Signature
Brian Junck	Weston	
Brian Guthrie	Weston	
Paul Novak	Weston	NP
Bruce Carnal	Weston	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Brian Junck

Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	30 Jan 2012, 0700 - 1700

WEATHER/TEMPERATURE: Cold and clear 37 high/29 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

858 Magnetometer transect data collection was performed in the following areas:

- Shell Burial Grounds (3100 Area)

EM31 transect data collection was performed in the following areas:

- Inactive Munitions Waste Pit (600 Area)

Brush cutting was performed in the following areas:

- Former Operational Area (1100 Area)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 31 Jan 2012: 858 Magnetometer Data collection in the Shell Burial Grounds MRS (3100 Area).

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 1/30/2012
Weather Conditions: 0-10% Precip, Wind-WNW-W 10-15 MPH, Humidity, 56-34%	Temperature: 29-37F

Safety Discussion and Issues: MEC anticipated in the Shell Burial Grounds, FOA Areas again.

QC Discussion and Issues: Lane set up for the MAG, EM61 again.

Other Discussion and Issues: Slips Trips and Falls, Dead Fall, Vines and Brambles.

Acknowledgement

Name	Company	Signature
Brian Junck	Weston	
Brian Guthrie	Weston	
Paul Novak	Weston	
Bruce Carnal	Weston	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Brian Junck

Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	31 Jan 2012, 0700 - 1700

WEATHER/TEMPERATURE: Cool and clear 52 high/30 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

858 Magnetometer transect data collection was performed in the following areas:

- Shell Burial Grounds (3100 Area)

Brush cutting was performed in the following areas:

- Former Operational Area (1100 Area)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 01 Feb 2012: EM61 Data collection in the Former Operational Area MRS (1100 Area).

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 1/31/2012
Weather Conditions: 20-0% Precip, SW 10-15 MPH, Humidity, 56-34%	Temperature: 30-52F

Safety Discussion and Issues: MEC overview, Warming Weather and Ticks.

QC Discussion and Issues: Lane set up for the MAG.

Other Discussion and Issues: Weed Eater Safety and Safe Distances.

Acknowledgement

Name	Company	Signature
Brian Junck	Weston	
Brian Guthrie	Weston	
Paul Novak	Weston	
Bruce Carnal	Weston	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Brian Junck

Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	03 Feb 2012, 0700 - 1700

WEATHER/TEMPERATURE: Clear and cold 42 high/26 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

EM31 Data collection was performed in the following areas:

- Shell Burial Grounds (3100 Area)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 06 Feb 2012: Electrical Resistivity surveying in the Shell Burial Grounds MRS (3100 Area).

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 2/3/2012
Weather Conditions: 0% Precip, NNW 5-10 MPH, Humidity, 51-34%	Temperature: 26-42F

Safety Discussion and Issues: MEC in Shell Burial Grounds.

QC Discussion and Issues: Lane set up for Resistivity.

Other Discussion and Issues: Slips Trips and Falls, Ticks.

Acknowledgement

Name	Company	Signature
Brian Junck	Weston	
Brian Guthrie	Weston	
Paul Novak	Weston	NOT ONSITE
Bruce Carnal	Weston	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Brian Junck

Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	06 Feb 2012 , 0700 - 1700

WEATHER/TEMPERATURE: Clear and cold 49 high/24 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Electrical Resistivity Imaging was performed in the following areas:

- Shell Burial Grounds (Western portion - 3100 Area) – 2 x 420ft profiles

Comments:

Bill Stenihart (Enviroscan, Inc) mobilized to site. Subcontracting personnel were given Picatinny specific safety training, and UXO awareness briefing.

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 07 Feb 2012: Electrical Resistivity surveying in the Shell Burial Grounds MRS (3100 Area).

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 2/6/2012
Weather Conditions: 0% Precip, SW 5-15 MPH, Humidity, 60-33%	Temperature: 24-49F

Safety Discussion and Issues: MEC in Shell Burial Grounds.

QC Discussion and Issues: Lane set up for Resistivity and Resistivity Testing.

Other Discussion and Issues: Slips Trips and Falls, Ticks.

Acknowledgement

Name	Company	Signature
Brian Junck	Weston	
Paul Novak	Weston	
Bruce Carnal	Weston	
Bill Steinhart	Enviroscan	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Brian Junck Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	07 Feb 2012, 0700 - 1700

WEATHER/TEMPERATURE: Clear and cold 45 high/29 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Electrical Resistivity Imaging was performed in the following areas:

- Shell Burial Grounds (Western portion - 3100 Area) – 1 x 800ft profile

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 08 Feb 2012: Electrical Resistivity surveying in the Shell Burial Grounds MRS (3100 Area).

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 2/7/2012
Weather Conditions: 0% Precip, NNW 5-10 MPH, Humidity, 63-39%	Temperature: 29-45F

Safety Discussion and Issues: Dehydration and cold weather.

QC Discussion and Issues: Lane set up for Resistivity and Resistivity Testing.

Other Discussion and Issues: Slips Trips and Falls, Ticks.

Acknowledgement

Name	Company	Signature
Paul Novak	Weston	
Bruce Carnal	Weston	
Bill Steinhart	Enviroscan	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Bruce Carnal

Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	08 Feb 2012, 0700 - 1700

WEATHER/TEMPERATURE: Clear and cold 38 high/29 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Electrical Resistivity Imaging was performed in the following areas:

- Shell Burial Grounds (Western portion - 3100 Area) – 1 x 800ft profile

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 09 Feb 2012: Electrical Resistivity surveying in the Shell Burial Grounds MRS (Eastern Portion - 3100 Area).

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 2/8/2012
Weather Conditions: 20-40% Precip, NNE-SSW 5-10 MPH, Humidity, 50-35%	Temperature: 29-~~45F~~ 36 F

Safety Discussion and Issues: Repetitive motion, proper lifting methods for heavy items.

QC Discussion and Issues: Lane set up for Resistivity and Resistivity Testing.

Other Discussion and Issues: Slips Trips and Falls, Snowy Ground.

Acknowledgement

Name	Company	Signature
Paul Novak	Weston	
Bruce Carnal	Weston	
Bill Steinhart	Enviroscan	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Bruce Carnal

Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	09 Feb 2012, 0700 - 1700

WEATHER/TEMPERATURE: Clear and cold 44 high/28 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Electrical Resistivity Imaging was performed in the following areas:

- Shell Burial Grounds (Eastern portion - 3100 Area) – 4 x 420ft profiles

Electrical Resistivity surveying is complete in the Shell Burial Grounds MRS.

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 10 Feb 2012: Offsite. Electrical Resistivity surveying in the Shell Burial Grounds MRS is complete. DGM data collection will continue on 13 Feb 2012 in the Former Operational Area MRS (1100 Area).

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 2/9/2012
Weather Conditions: 0% Precip, NW-W 5-10 MPH, Humidity, 70-28%	Temperature: 28-44F

Safety Discussion and Issues: Watch out for thorn bushes, Treat minor lacerations ASAP.

QC Discussion and Issues: Lane set up for Resistivity and Resistivity Testing.

Other Discussion and Issues: Slips Trips and Falls, Snowy, Wet Ground.

Acknowledgement

Name	Company	Signature
Paul Novak	Weston	
Bruce Carnal	Weston	
Bill Steinhart	Enviroscan	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Bruce Carnal

Signature:

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	30 May 2012

WEATHER: 65-79 F, Partly cloudy, Possible showers and thunderstorms, Winds 5 - 10 MPH

WORK LOCATION: Lake Denmark, 3100 area (Shell Burial Grounds)

WORK COMPLETED:

- ☐ Surveyor activities.
- ☒ Mag and Dig activities (List grid or location)
- ☐ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☒ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: Ken Schlosser

Team location: Lake Denmark

Worked performed: Mag and Dig along Lake Denmark transects LDM-029 (1,365 ft), 030 (1,550 ft) and 034 (1,795 ft).

Comments:

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:
UXO Techs:
Geo Tech:
Team location:
Worked performed:
Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: Lake Denmark, Shell Burial Grounds

Worked performed: Mag and Dig along Lake Denmark transects LDM-022 (250 ft), 023 (325 ft), 024 (335 ft), 025 (360 ft), 026 (365 ft), 027 (740 ft) and 028 (775 ft).

Shell Burial Grounds (West) – Mag and dig transect to the SW of previously gathered DGM data to better define extent/type of metallic contamination.

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig along Lake Denmark transects LDM-022, 023, 024, 025, 026, 027, 028, 029, 030 and 034 (Total 7,860 ft). **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 25 lbs **CD**: 10 lbs **Comment:**	
DGM Grids/Transects:	
DGM Grids/Transects Reacquired:	
Comments:	
QC/QA: OESS provided a 948 for QA of All Mag and Dig transects, 26-IR18, FOA-001 through FOA-007, LDM-001 and LPW-001 - no grid or transect failures	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/30/2012

Describe daily QC activities: No QC's done today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal

Approval Date: 5/30/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	31 May 2012

WEATHER: 60-76 F, Mostly sunny, Winds 5 - 10 MPH

WORK LOCATION: Lake Denmark, 1100 and 3100 area (Shell Burial Grounds)

WORK COMPLETED:

- ☐ Surveyor activities.
- ☒ Mag and Dig activities (List grid or location)
- ☐ Intrusive Investigation of DGM anomaly targets (List grids
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: Ken Schlosser

Team location: Lake Denmark, 1100 area

Worked performed: Mag and Dig along Lake Denmark shoreline (NE); and Mag and Dig along Transects FOA 020 (565 ft), 021 (780 ft) and 022 (535 ft).

Comments:

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:
UXO Techs:
Geo Tech:
Team location:
Worked performed:
Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Brown
Geo Tech:

Team location: Shell Burial Grounds

Worked performed: Conducted an analog survey to further define the extensively contaminated area surrounding/near grid 26IR-010.

Shell Burial Grounds (East) – Mag and dig 3 transects to the NW of previously gathered DGM data to better define the extent/type of metallic contamination.

Comments:

DATA TRACKING:

Analog Survey Transects/Grids:
Mag and Dig along Lake Denmark shoreline (NE).

Mag and Dig along Transects FOA 020, 021 and 022 (Total 1,880 ft).

Conducted analog survey to further define the extensively contaminated area surrounding/near grid 26IR-010.

Shell Burial Grounds (East) – Mag and dig 3 transects to the NW of previously gathered DGM data to better define the extent/type of metallic contamination.

Comments:

Items Recovered Today:

MEC/MPPEH: None

MD:100 lbs
CD: 0 lbs

Comment:

DGM Grids/Transects:

DGM Grids/Transects Reacquired:

Comments:

QC/QA: None performed

Other work performed:
Conducted demob activities (pack field equipment, etc), field teams demob/travel day 01 JUNE 2012.

Comments:

PREPARED BY:	**SIGNATURE:**
Walter F. Hess	

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/31/2012

Describe daily QC activities: No QC's done today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal Approval Date: 5/31/2012

GREEN POND MRS

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	13 Jan 2012, 0700 - 1700

WEATHER/TEMPERATURE: Cold and windy with occasional snow 39 high/33 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

EM31 Data was collected in the following areas:

- Shell Burial Grounds MRS (3100 Area)
- Green Pond MRS (300 Area)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 16 Jan 2012: DGM data collection in 1100 area.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	16 Jan 2012, 0700 - 1700

WEATHER/TEMPERATURE: Cold and windy 32 high/12 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

EM31 Data was collected in the following areas:

- Green Pond MRS (300 Area)
- 20/24 Area (1100 Area)
- Waste Burial Area (1100 Area)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 17 Jan 2012: DGM data collection in 1100 area (20/24 Area).

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	12 Apr 2012

WEATHER: 40 – 67 Clear

WORK LOCATION: 1100 Area, Former Code 300 Area, and West of 1400 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown
Geo Tech: K. Schlosser

Team location: 1100 Area

Worked performed: Mag and dig in transects 11 (1,975 ft), 12 (400 ft), 13 (650 ft), 14 (425 ft), 15 (1,255 ft), 17 (1,500 ft), 18 (1,525 ft), 19 (1,400 ft), 20 (1,250 ft), 23 (1,875 ft), 24 (1,775 ft), and 25 (1,400 ft).

Comments:
Found 1 ea 81mm mortar with new-style sheared fuze in transect 25, deemed safe to move by SUXOS and UXOSO/QC, and transported and stored in magazine. Location of items found: UTM 18N WGS 1984 (1754536.47E, 14864600.68N).

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: Former Code 300 Area and West of 1400 Area

Worked performed: Mag and dig grids 26OR-015 and 26OR-086.

Comments: Also conducted brush cutting near Green Pond Brook in 300 Area.

DATA TRACKING:

Analog Survey Transects/Grids:
Transects11, 12, 13, 14, 15, 17, 18, 19, 20, 23, 24, and 25 in 1100 area (Total 15,430 ft); grids 26OR-015 and 26OR-086 in Former Code 300 area and West of 1400 area.

Items Recovered Today:
MEC/MPPEH: 81mm mortar
MD: 5 lbs
CD: 140 lbs

DGM Grids/Transects: None

DGM Grids/Transects Reacquired: None

Comments:

QC/QA:

Other work performed:

Comments:

PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/12/2012

Describe daily QC activities: No QY performed today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 4/12/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	14 Apr 2012

WEATHER: 39 – 69 Clear

WORK LOCATION: 1600 Area, Green Pond Brook, and Former Code 300 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☐ DGM activities (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

16 yards of sand for demo-ops in the Gorge.

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown
Geo Tech: K. Schlosser

Team location: 1600 Area

Worked performed: Conducted mag and dig ops in transects 16 (1,850 ft – dug on 4/12, but GPS was not turned on for tracking), 21 (1,100 ft), 22 (900 ft), 23 (175 ft), 24 (285 ft), 25 (350 ft), 26 (600 ft), 27 (1,430 ft), 28 (1,225 ft), 29 (1,800 ft), 30 (1,550 ft), 31 (1,840 ft) and 32 (2,775 ft).

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: Former Code 300 Area

Worked performed: Conducted reacquire and intrusive investigation in grid 26OR-011 (82 digs).

Comments: Found 1 ea 105mm HEAT round (unfired). Item and condition verified, deemed safe to move, and transported to and stowed in the magazine. Location of item: UTM 18N (14870667.52E, 1759060.604N).

DATA TRACKING:

Analog Survey Transects/Grids:
Transects in 1100 and 1600 Area (total 15,880 ft); and 26OR-011 (total 82 digs).

Items Recovered Today:
MEC/MPPEH: 1 ea 105mm HEAT, and 1 ea 81mm mortar (practice)
MD: 23 lbs
CD: 300 lbs

DGM Grids/Transects: 26OR-011

DGM Grids/Transects Reacquired: Grid 26OR-011 and Green Pond Brook Area transect

Comments:
1 ea 81mm mortar practice round was discovered in February in the 20/24 Area during the DGM phase. It was reported to EOD, who asked that we return to the round during the intrusive investigation phase and then remove it to the magazine. It was picked up on 14 Apr 2012 and moved into the magazine. The round was located at UTM 18N WGS 1984 (1755051.8E, 14864378.2N).

QC/QA:

Other work performed:

Comments:

PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/14/2012

Describe daily QC activities: No grids QC'd today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 4/14/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	21 Apr 2012

WEATHER: 53-71 Mostly Cloudy

WORK LOCATION: 1- 99, Green Pond MRS, 3100 Areas and Gorge

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☒ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

Backhoe repairs - completed on 20 Apr 2012

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown

Geo Tech:

Team location: 1-99 area, Green Pond Brook

Worked performed: Intrusive investigation 1-99 area DGM grids FOA-004, 005, 006 and 007; intrusive investigation in Green Pond MRS DGM transect and Mag and Dig along banks of Green Pond Brook.

Comments: Investigation of DGM targets in Green Pond MRS is complete.

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 3100 Area
Worked performed: Intrusive investigation in 1926 Explosion Radius MRS DGM grids 26IR-010 and 012 and 26OR-036 and 037

Comments:

DATA TRACKING:

Analog Survey Transects/Grids: N/A
Comments:

Items Recovered Today:
MEC/MPPEH: 3 ea. of base fuze, and 2 ea. of PD (MK 1) fuze.
MD: 304 lbs
CD: 128 lbs

DGM Grids/Transects: Grids: 26IR- 010 and 012; 26OR 36 and 37; FOA 004, 005, 006 and 007

DGM Grids/Transects Reacquired: FOA 004, 005, 006 and 007

Comments: Fuzes were inspected, deemed safe to move, and transported/stowed in the magazine for future disposal. Location of fuzes: UTM 18N, WGS 1984 (1764624.412E, 14871180.48N).

QC/QA: QC 26OR-30, 33 and 34 - no QC failures

Other work performed: Performed clean up and pit preparation at the Gorge.

Comments: Recovered residue of 6in projectile from 20 Apr 2012 partial demo operations and prepared pit for next demo day (scheduled for 27 Apr 12).

PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/21/2012

Describe daily QC activities: QC'd in the 3100 area.

Grid QC: 26OR-030, 26OR-033 and 26OR-34

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal

Approval Date: 4/21/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	22 Apr 2012

WEATHER: 47-53 F Overcast and rain

WORK LOCATION: 1- 99, Green Pond MRS, 3100 Areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown

Geo Tech:

Team location: 1-99 area, Green Pond MRS

Worked performed: Intrusive investigation of 58 selected targets along DGM transects in 1-99 area; mag and dig in Green Pond MRS.

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 3100 Area
Worked performed: Intrusive investigation in 1926 Explosion Radius MRS DGM grids 26IR-009, 011 and 014
Comments:

DATA TRACKING:

Analog Survey Transects/Grids:
Comments:

Items Recovered Today:
MEC/MPPEH: 1 ea 75mm projectile
MD: 114 lbs
CD: 116 lbs

DGM Grids/Transects: Grids: 26IR- 009, 011 and 014

DGM Grids/Transects Reacquired: 58 Targets in 1-99 Area

Comments: 75mm projectile was unfuzed and unfired, deemed safe to move, and transported/stowed in the magazine for future disposal. Locations: UTM 18N, WGS 1984 (1761138.73E, 14870298.42N)

QC/QA: QC 26IR 012 and 014 - no QC failures

Other work performed:

Comments:

PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/22/2012

Describe daily QC activities: QC'd in the 3100 area.

Grid QC: 26IR-012, and 26IR-014.

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 4/22/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	28 Apr 2012

WEATHER: 32- 56 F Partly Cloudy; Winds 5-10 MPH

WORK LOCATION: 900, 1100 East, 1200, 1350, 1400 and East of 3300 Areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, J. Betz, C. Stanford
Geo Tech: K. Schlosser

Team location: 1100 Area (East), Lake Demark MRS
Worked performed: Mag and Dig along transects FOA-041 (660 ft) and LDM- 046 (1,475 ft), 047 (1,310 ft), 048 (1,175 ft), 049 (1,170 ft), 050 (720 ft), 052 (120 ft), 053 (670 ft), 054 (615 ft), 055 (575 ft) and 056 (400 ft).

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: East of 1350, 1400 and East of 3300 areas (1926 Explosion Radius MRS)
Worked performed: Intrusive investigation of DGM Grids 26OR-042, 043, 045, 079, 080, 091, 092, 095, 097, 099, and 101, and 26IR-013

Comments: Two MC soil samples were collected from the Green Pond MRS (300 Marsh Area) corresponding to locations where MD/MPPEH was recovered.

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 900 Area
Worked performed: Intrusive Investigation (Mag and Dig) along transects FOA-063 (1,800 ft), 064 (2,610 ft) and 065 (3,900 ft)

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig along transects FOA-041, 063, 064 and 065, and LDM- 046, 047, 048, 049, 050, 052, 053, 054, 055 and 056 (Total 17,200 ft) **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 60 lbs **CD**: 162 lbs	
DGM Grids/Transects: Intrusive Investigation of DGM Grids 26OR-042, 043, 045, 079, 080, 091, 092, 095, 097, 099, and 101, and 26IR-013	
DGM Grids/Transects Reacquired: None	
Comments	
QC/QA: QC Grids 26IR-010 and 26OR-042, 043 and 045 – no QC failure	
Other work performed: Munitions Constituents Sampling **Comments**: Samples were taken at two locations in the Green Pond Brook MRS (300 Marsh Area)	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey

Date: 4/28/2012

Describe daily QC activities: DGM Grids in 1500 and 3100 areas. As with all prior grids, QC'd at least 20%. All passed.

Grid QC: 26IR-010, Points 1,3,4,6,10,16,17,18,21,22,26,27,35,36,37,41,46,53,54,57,58,61,67,72,79.
26OR-042, Points 1,2,4,5,6
26OR-043, Points 1,2,3,4,5,10,11,12,13,14,15,16,17
26OR-045, Points 1,2,3,4,5,6,8,9,10,11,12,13,14,16,17

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Bruce A Carnal II

Approval Date: 4/28/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	06 May 2012

WEATHER: 50- 63 Overcast, Winds 5-10 MPH

WORK LOCATION: 1300 and Green Pond Brook areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance.
☒ Administrative operations.	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, C. Stanford
Geo Tech: K. Schlosser

Team location: Green Pond Area

Worked performed: Mag and Dig in Green Pond areas SSW of bldg 314E and E of bldg 314D

Comments: 12 small glass vials (approx. 3”x1/4”) were found, one contained liquid. Items were found in one area, GPS location taken and position flagged. Will inform base safety/environmental office.

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: M. Fiedler, W. Sturm, J. Hill, N. Cox, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 1300 Area
Worked performed: Mag and Dig of Analog Grids 26OR-076, 077, 082, 083, 084 and 085

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: Green Pond Brook Area

Worked performed:
Mag and Dig in Green Pond areas SSW of bldg 314E and E of bldg 314D

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig of Analog Grids: 26OR-076, 077, 082, 083, 084 and 085 Mag and Dig in Green Pond Area **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 3 lbs **CD**: 232 lbs	
DGM Grids/Transects:	
DGM Grids/Transects Reacquired: Reacquired DGM transects in the Waste Burial Area	
Comments:	
QC/QA: Grids 26IR-003, 004, 005, 007, 008, 009 and 011, and 26OR-036, 037, 038, 039 and 040 – no QC failure	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/06/2012

Describe daily QC activities: Performed Grid QC in various areas. 20% of targets or grid QC'd at a minimum.

Grid QC: Mag and Dig Grid; 26IR-005
DGM Grids; 26IR-003 Points 2,3,9,15,23,30,31,36,37,38,40,42
26IR-004 Points 1,2,3,8,10,11,12,13,14,15,17,20,25,26,28,29,34,39,41,44,49,55,66,71,83,88,93,96,102,103,106, 112,114
26IR-007 Points 1,2,3,5,6,8,9,10,14,18,19,20,21,24,27
26IR-008 Points 5,7,9,11,13,14,16,17,18,19,21,23,25,27,29,30,33,35,42
26IR-009 Points 2,4,6,7,9,12,25,26,27,29,30,40,41,44,49,51,52,56
26IR-011 Points 6,7,9,10,18,19,29,30,31,37,38,39,40,42
26OR-036 Points 1,2,3,5,6,9,10,11,12,13,14,15,17,18,19
26OR-037 Points 1,2,3,4.6.8.9.10.11
26OR-038 Points 1,3,4,5,9,10,11,14,29,30,36,38,44
26OR-039 Points 1,2,3,4,5,7,8,9,10,12,13,15,16,17,18,19,20,21,22
26OR-040 Points 2,6,10,13,16,19,21,22,31,38,44,47,49,51,61,69

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal Approval Date: 5/06/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	12 May 2012

WEATHER: 49-75 F, Clear, Winds 10-15 MPH

WORK LOCATION: Code 300, 900 and 1100 areas

WORK COMPLETED:

- ☐ Surveyor activities.
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids).
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, C. Stanford
Geo Tech: K. Schlosser

Team location: Waste Burial Area

Worked performed: Intrusive investigation of selected targets along DGM transects in the Waste Burial Area.

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: W. Sturm, J. Hill, N. Cox, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: Code 300 Area

Worked performed: Re-investigate portions of the Code 300 density transects to clarify and supplement data gathered earlier in the project. Eight areas completed today.

Mag and Dig analog grid 26IR-018.

Comments: The 17 areas identified for additional investigation along the transects have been completed.

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 900 Area

Worked performed: Mag and Flag along density transects C30-007 (220 ft), 008 (1,300 ft), 009 (390 ft), 010 (160 ft), 011 (40 ft), 012 (80 ft), 013 (230 ft), 014 (530 ft), 015 (660 ft), 016 (990 ft) and 017 (330 ft).

Mag and dig along transects FOA 037 (2,245 ft) and 073 (480 ft) and IMW- 001 (140 ft).

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Flag along transects C30-007, 008, 009, 010, 011, 012, 013, 014, 015, 016 and 017 (Total 4,930 ft); Mag and dig along transects FOA 037 and 073 and IMW- 001 (Total 2,865 ft); Mag and dig grid 26OR-018. **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 153 lbs **CD**: 57 lbs	
DGM Grids/Transects: Intrusive investigation of selected targets along DGM transects in the Waste Burial Area.	
DGM Grids/Transects Reacquired: Reacquired along DGM transects in the 20/24 area	
Comments:	
QC/QA: QC of grids 26OR-026, 081, 082, 083, 084 and 085 and 26IR-018 – no grid failures	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/12/2012

Describe daily QC activities: QC'd the remaining 1926 grids. 20% of the grid QC'd at a minimum. All grids passed QC.

Grid QC: Mag and Dig Grid; 26OR-026, 26OR-081, 26OR-082, 26OR-083, 26OR-084, 26OR-085 and the add on grid 26IR-018. Also did not report grid 26OR-032 on 5/09/12, but it was QC'd that date and passed. All 1926 Grids have been QC'd and passed.

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal

Approval Date: 5/12/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	20 May 2012

WEATHER: 54-75 F, Clear, Winds 5 - 10 MPH

WORK LOCATION: 900 and Picatinny Lake areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: K. Schlosser

Team location: Picatinny Lake

Worked performed: Conducted Mag and Dig transects along the bank/border of Picatinny Lake.

Comments: Approximately 65% of the transect is complete.

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs:

Geo Tech:

Team location:

Worked performed:

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operation	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown

Geo Tech:

Team location: 900 Area

Worked performed: Intrusive investigation of selected targets along DGM transects in the 900 area.

Comments: All of the 900 area DGM transects are complete.

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig transects along the banks/border of Picatinny Lake. **Comments:** Approximately 65% complete	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 5 lbs **CD**: 90 lbs **Comment:**	
DGM Grids/Transects: DGM targets in the 900 area.	
DGM Grids/Transects Reacquired: N/A	
Comments:	
QC/QA: Performed QC of DGM transects in Green Pond and 20/24 areas – all passed	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/20/2012

Describe daily QC activities: Green Pond Brook and 20-24 South Area DGM Transects QC'd at 20%+. Both Passed.

Grid QC: N/A

Transect QC: Green Pond Brook, Targets 1,2,3,7,8,9,10,11,25,26,27,28,29,30,31
20-24 South Area, Targets 0,6,7,11,16,18,21,41,36,49,56,57,58,60,66,70,74,75,86,88,91,94,97,103,116,118, 120,123,126,130,133,134,138,142,143,149,150,154,155,158,162,165,171,172,176,177,178,181,184,186,188,194

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Approval Date: 5/20/2012

FORMER OPERATIONAL AREAS MRS

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12 Dec 2011, 0700 - 1700

WEATHER/TEMPERATURE: Cold and clear 42 high/22 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Geophysical data collection was completed in 3 grids:
- 26OR-11, 26OR-13, and 26IR-04

MC Sampling was conducted in the 900 area.

Comments:
Team received an archaeological brief from Jason Huggan.

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 13 Dec 2011: Continue DGM data collection in Area 200, continue MC sampling.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12/12/11 0700 - 1700

WEATHER/TEMPERATURE:
LOW- 22 HIGH- 42

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck - WESTON	
Paul Novak – WESTON	
Nick Cox – ARCADIS	
Morgan Parr – ARCADIS	
Brian Jordan - ARCADIS	

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☐ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☐ First Aid Kit ☐ Fire Prevention Equipment ☐ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	13 Dec 2011, 0700 - 1700

WEATHER/TEMPERATURE: Cold and clear 42 high/22 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Geophysical data collection was completed in 4 grids:
- 26OR-17, 26OR-39, 26IR-05, 26IR-10

MC Sampling was conducted west of the 200, 600, and 800 areas.

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 14 Dec 2011: DGM data collection in Area 1400, MC sampling in 1600 Area.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12/13/11 0700 - 1700

WEATHER/TEMPERATURE:
LOW- 26 HIGH- 44 Sunny & cool

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck - WESTON	
Paul Novak – WESTON	
Nick Cox – ARCADIS	
Morgan Parr – ARCADIS	
Brian Jordan	
Hanna Cutton	
Megan Garrett - USACE	

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☐ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☐ First Aid Kit ☐ Fire Prevention Equipment ☐ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	14 Dec 2011, 0700 - 1700

WEATHER/TEMPERATURE: Cold and clear 44 high/33 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☒ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Geophysical data collection was completed in 3 grids:
- 26OR-101, 26OR-099, and 26OR-092

MC Sampling was conducted in the 1600 Area.

Comments:
Surveyors were onsite today to verify additional baseline control.

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 15 Dec 2011: DGM data collection in Area 1400, MC sampling in the 1100 Area.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12/14/11 0700 - 1700

WEATHER/TEMPERATURE:
LOW- 23 HIGH- 44 SUNNY AND COOL

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck - WESTON	
Paul Novak – WESTON	
Nick Cox – ARCADIS	
Morgan Parr – ARCADIS	
MEGAN GARRETT - USACE	
Brian Jordan - ARCADIS	
Robert Miglin Badey + Watson	
Hanna Cutter - ARCADIS	

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☐ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☐ First Aid Kit ☐ Fire Prevention Equipment ☐ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	15 Dec 2011, 0700 - 1700

WEATHER/TEMPERATURE: Cold and clear 53 high/39 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Geophysical data collection was completed in 3 grids:
- 26OR-040, 26OR-038, and 26IR-012

MC Sampling was conducted in the 1100 Area.

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 16 Dec 2011: DGM data collection in Area 1000 and 1300, MC sampling in 1100 Area.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12/15/11 0700 - 1700

WEATHER/TEMPERATURE:
LOW- 39 HIGH- 53 COOL AND RAINY

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck - WESTON	
Paul Novak – WESTON	
Nick Cox – ARCADIS	
Morgan Parr – ARCADIS	
Brian Jordan	
Hanna Culton - ARCADIS	

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☑ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☑ First Aid Kit ☐ Fire Prevention Equipment ☐ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	16 Dec 2011, 0700 - 1700

WEATHER/TEMPERATURE: Cold and clear 42 high/33 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Geophysical data collection was completed in 3 grids:
- 26IR-003, 26IR-013, 26OR-079, and 26OR-080

MC Sampling was conducted in the 1100 Area.

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 19 Dec 2011: DGM data collection in Area 1400 and 3100, MC sampling in 1100 Area.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12/16/11 0700 - 1700

WEATHER/TEMPERATURE:
LOW- 33 HIGH- 42 Cold and clear

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck - WESTON	
Paul Novak – WESTON	
Nick Cox – ARCADIS	
Morgan Parr – ARCADIS	
Hanna Cutton - ARCADIS	
Brian Jordan - ARCADIS	

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☐ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☐ First Aid Kit ☐ Fire Prevention Equipment ☐ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	19 Dec 2011, 0700 - 1700

WEATHER/TEMPERATURE: Cold and clear 43 high/29 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Geophysical data collection was completed in grids:

Team 1
- 26OR-100, 26OR-98, 26OR-97

Team 2
- 26IR-11, 26IR-14

MC Sampling was conducted in the 900 Area.

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 20 Dec 2011: DGM data collection in Area 3000 and 3300, MC sampling in 1100 Area.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12/19/11 0700 - 1700

WEATHER/TEMPERATURE:
LOW- 29 HIGH- 43 Cold ms clear

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck - WESTON	
Paul Novak – WESTON	
Nick Cox – ARCADIS	
Morgan Parr – ARCADIS	
Nicole Sharkey - Weston	
Brian Jordan - ARCADIS	
Hanna Culton-ARCADIS	

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☑ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☑ First Aid Kit ☑ Fire Prevention Equipment ☑ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	20 Dec 2011, 0700 - 1700

WEATHER/TEMPERATURE: Cold and clear 41 high/30 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Geophysical data collection was completed in 8 grids:

Team 1

- 26IR-27, 26IR-009, 26OR-037, 26OR-091, and 26OR-036

Team 2

- 26OR-045, 26OR-043, and 26OR-042

MC Sampling was conducted in the 1100 Area.

Comments:

A safety stand down was conducted at 10am to discuss vehicle safety, slips trips and falls and other applicable safety guidelines for work being performed onsite.

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 21 Dec 2011: DGM data collection in 600, 700 and 800 Areas, MC sampling in 1100 Area.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12/20/11 0700 - 1700

WEATHER/TEMPERATURE:
LOW- 30 HIGH- 41 Cold and clear

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck - WESTON	
Paul Novak – WESTON	
Nick Cox – ARCADIS	
Morgan Parr – ARCADIS	
Brian Jordan - ARCADIS	
Nicole Sharkey - Weston	
Tim Howard - ARCADIS	
Hassan Cam	Random on site 12

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☐ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☐ First Aid Kit ☐ Fire Prevention Equipment ☐ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	21 Dec 2011, 0700 - 1700

WEATHER/TEMPERATURE: Overcast with Intermittent rain 50 high/39 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Geophysical data collection was completed in 7 grids:

- 26OR-031, 26IR-002, 26OR-021, 26OR-019, 26OR-018, 26OR-016, and 26OR-035

MC Sampling was conducted in the 1100 Area.

Comments:
John Cole (ARCADIS) mobilized to site to assist with soil sampling activities.

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 22 Dec 2011: DGM data collection in 200 Area.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Safety Report

CONTRACT NO. / D.O. NO.:	WESTON PROJECT NO.	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	10/21/11 0700 - 1700

WEATHER/TEMPERATURE:
LOW- 39 HIGH- 50

WORK LOCATION:
Picatinny Arsenal, NJ

PERSONNEL/AFFILIATION (PRINT)	SIGNATURE
Brian Junck - WESTON	
Paul Novak – WESTON	NOT ONSITE
Nick Cox – ARCADIS	
Morgan Parr – ARCADIS	
Brian Jordan - ARCADIS	
Nicole Sharkey - Weston	
Tim Lamont	
John Cole	

HEALTH AND SAFETY:

☒ Daily H&S Brief and Discussion
- Prior to work and as needed.

☒ UXO Safety Discussion
- Prior to work and as needed.

Discussion Topics:

☒ Personnel Sign In ☑ Review Applicable SOPs ☒ Phone/Radio Check ☐ Wetland Issues ☑ First Aid Kit ☑ Fire Prevention Equipment ☑ Issues / Injuries

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	10 Jan 2012, 0700 - 1200

WEATHER/TEMPERATURE: Cold and clear 44 high/27 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☒ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

No data collection was performed today

Comments:

Geophysical crew prepared and assembled geophysical equipment to begin data collection on 11 Jan 2012. Crew worked on setup of the site trailer, received necessary site-specific training, and were given orientation of Picatinny Arsenal and work areas that geophysical mapping will be performed in.

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 11 Jan 2012: DGM data collection in 1100 Area.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	11 Jan 2012, 0700 - 1200

WEATHER/TEMPERATURE: Cold and clear 41 high/24 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

EM31 Data was collected in the 1100 Area portion of the Former Operational Area MRS in the following areas:

- Former Sanitary Landfill
- Dredge Piles
- Waste Burial Area

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 12 Jan 2012: DGM data collection in 1100 area, 3100 Area within the Shell Burial Grounds MRS, and 300 area within the Greenpond MRS.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Safety Meeting Attendance Log

Date:	11 January, 2012	Time:	0700	Contract Number:	W912DR-09-D-0006

Delivery Order Number:	0002	Location:	PTA RI, Picatinny Arsenal, Dover, NJ

Weather Conditions:	0-20% chance of precipitation. High Temp: 41F Low Temp: 24F Current Temp: 25F. SSW-S @ 5 to 10 mph. Sunrise: 0722 Sunset: 1649 Humidity: 70-45%

I. Safety Meeting Topic (Briefly describe):	Ticks and lyme disease recognition and avoidance, MEC expected in area, area conditions and STF hazards.

II. Attendees:	

Name	Signature	Company
Laura Pastor	NOT ONSITE	Weston
Ryan Steigerwalt	NOT ONSITE	Weston
Brian Junck		Weston
Brian Guthrie		Weston
Paul Novak	NOT ONSITE	Weston
Bruce Carnal		Weston
MEGAN GARRETT		USACE

III. Verification:

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Site Safety Officer: Brian Junck

01/11/12
Date

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	12 Jan 2012, 0700 - 1700

WEATHER/TEMPERATURE: Cold and Rain 48 high/41 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

EM31 Data was collected in the following areas:

- Former Operational Areas MRS (1100 Area) - Dredge Piles
- Former Operational Areas MRS (1100 Area) – Former Sanitary Landfill
- Shell Burial Grounds MRS (3100 Area)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 13 Jan 2012: DGM data collection in 1100 area, and 300 area within the Greenpond MRS.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Safety Meeting Attendance Log

Date:	12 January, 2012	Time:	0700	Contract Number:	W912DR-09-D-0006

Delivery Order Number:	0002	Location:	PTA RI, Picatinny Arsenal, Dover, NJ

Weather Conditions:	90-10% chance of precipitation. High Temp: 48F Low Temp: 41F Current Temp: 41F. E-SSW @ 10 to 20 mph. Sunrise: 0722 Sunset: 1650 Humidity: 89-66%

I. Safety Meeting Topic (Briefly describe):	Cold stress, hypothermia, and dehydration in wet conditions, MEC concerns for 1100 area, and first aid treatment for minor wounds.

II. Attendees:	

Name	Signature	Company
Laura Pastor		Weston
Ryan Steigerwalt		Weston
Brian Junck		Weston
Brian Guthrie		Weston
Paul Novak		Weston
Bruce Carnal		Weston
MEGAN GARRETT		USACE

III. Verification:

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Site Safety Officer: Brian Junck Date

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	16 Jan 2012, 0700 - 1700

WEATHER/TEMPERATURE: Cold and windy 32 high/12 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

EM31 Data was collected in the following areas:

- Green Pond MRS (300 Area)
- 20/24 Area (1100 Area)
- Waste Burial Area (1100 Area)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 17 Jan 2012: DGM data collection in 1100 area (20/24 Area).

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	17 Jan 2012, 0700 - 1700

WEATHER/TEMPERATURE: Cold and rainy 42 high/30 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities.
- ☐ Mag and Dig activities.
- ☒ DGM activities (List grids).
- ☐ Reacquisition of DGM anomaly targets (List grids).
- ☐ Grid QC List (List completed grids).
- ☐ Grid QA (CENAB-List completed grids).
- ☐ Munitions Constituents Sampling.
- ☒ UXO Technician Escort activities.
- ☐ Equipment Transport (mob/demob to/from site-List).
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below).
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

EM31 Data was collected in the following areas:

- 20/24 Area (1100 Area)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 18 Jan 2012: DGM Data collection in the 1-99 Area

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 1/17/2012
Weather Conditions: Rain all day 100-70%, Wind SSW 5-10	Temperature: 30-42F

Safety Discussion and Issues: Rain and Hypothermia, MEC Anticipated in 20-24 area and.

QC Discussion and Issues: Getting the EM-31 through the dense areas.

Other Discussion and Issues: Slips Trips and Falls.

Acknowledgement

Name	Company	Signature
Brian Junck	Weston	
Brian Guthrie	Weston	
Paul Novak	Weston	
Bruce Carnal	Weston	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Brian Junck

Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	18 Jan 2012, 0700 - 1700

WEATHER/TEMPERATURE: Cold and rainy 34 high/30 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Brush cutting was performed on DGM transects in the following areas:

- Former Operational Area (1100 Area)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 19 Jan 2012: DGM Data collection in the 500 Area

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 1/18/2012
Weather Conditions: 0% Precip, Wind W-NW 15-20 MPH	Temperature: 34-30F

Safety Discussion and Issues: Possible insects and wildlife, MEC Anticipated in FOA area ~~and/or~~

QC Discussion and Issues: Clearing for the61 through the dense areas.

Other Discussion and Issues: Slips Trips and Falls.

Acknowledgement

Name	Company	Signature
Brian Junck	Weston	
Brian Guthrie	Weston	
Paul Novak	Weston	
Bruce Carnal	Weston	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Brian Junck Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	20 Jan 2012, 0700 - 1700

WEATHER/TEMPERATURE: Cold and rainy 34 high/30 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

EM61-MK2 transect data collection was performed in the following areas:

- Former Operational Area (900 Area)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 23 Jan 2012: DGM Data collection in the Shell Burial Ground MRS (3100 Area)

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 1/20/2012
Weather Conditions: 0-10% Precip, Wind NW 5-10 MPH	Temperature: 30-32F

Safety Discussion and Issues: Repetitive Motions with the loppers again, MEC anticipated in the FOA Area.

QC Discussion and Issues: Clearing for the 61 through the dense areas and watching for deadfall.

Other Discussion and Issues: Slips Trips and Falls.

Acknowledgement

Name	Company	Signature
Brian Junck	Weston	
Brian Guthrie	Weston	
Paul Novak	Weston	
Bruce Carnal	Weston	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Brian Junck Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	23 Jan 2012, 0700 - 1700

WEATHER/TEMPERATURE: Cold and rainy 45 high/32 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

EM61-MK2 transect data collection was performed in the following areas:

- Former Operational Area (1-99 Area)
- Lakes MRS (Lake Denmark 20mm firing point)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 24 Jan 2012: DGM Data collection in the Former Operational Area MRS (900 Area) and Lakes MRS (lake Denmark 20mm firing point.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 1/23/2012
Weather Conditions: 20-60% Precip, Wind E-SE 5-15 MPH	Temperature: 32-45F

Safety Discussion and Issues: Watching for wildlife, MEC anticipated in the FOA Area.

QC Discussion and Issues: Clearing for the Mag, 31 and 61.

Other Discussion and Issues: Slips Trips and Falls.

Acknowledgement

Name	Company	*Signature*
Brian Junck	Weston	
Brian Guthrie	Weston	
Paul Novak	Weston	not onsite
Bruce Carnal	Weston	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Brian Junck

Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	24 Jan 2012, 0700 - 1700

WEATHER/TEMPERATURE: Cold and rainy 44 high/41 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

EM61-MK2 transect data collection was performed in the following areas:

- Former Operational Area (900 Area)
- Lakes MRS (Lake Denmark 20mm firing point)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 25 Jan 2012: DGM Data collection in the Former Operational Area MRS (900 Area) and Lakes MRS.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 1/24/2012
Weather Conditions: 10-0% Precip, Wind WSW-W 5-15 MPH, Humidity, 85-53%	Temperature: 41-44F

Safety Discussion and Issues: Wet conditions and Cold Stress, MEC anticipated in the 900 and Lake Denmark Areas.

QC Discussion and Issues: Grid set up for the 61.

Other Discussion and Issues: Slips Trips and Falls.

Acknowledgement

Name	Company	Signature
Brian Junck	Weston	
Brian Guthrie	Weston	
Paul Novak	Weston	
Bruce Carnal	Weston	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Brian Junck

Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	25 Jan 2012, 0700 - 1700

WEATHER/TEMPERATURE: Cold and clear 40 high/37 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

EM61-MK2 transect data collection was performed in the following areas:

- Former Operational Area (900 Area)
- Lakes MRS (3in Barbette firing point)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 26 Jan 2012: DGM Data collection in the Shell Burial Grounds MRS (3100 Area).

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 1/25/2012
Weather Conditions: 0% Precip, Wind W-NW 5-10 MPH, Humidity, 66-46%	Temperature: 37-40F

Safety Discussion and Issues: Wild life in areas, Ticks, MEC anticipated in the 900 and 500 Areas, MAG.

QC Discussion and Issues: Grid set up for the 61.

Other Discussion and Issues: Slips Trips and Falls.

Acknowledgement

Name	Company	Signature
Brian Junck	Weston	
Brian Guthrie	Weston	
Paul Novak	Weston	
Bruce Carnal	Weston	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Brian Junck

Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	27 Jan 2012, 0700 - 1700

WEATHER/TEMPERATURE: Rain and cold 58 high/37 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Brush cutting was performed in the following areas:

- Former Operational Area (1100 Area)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 30 Jan 2012: 858 Magnetometer Data collection in the Shell Burial Grounds MRS (3100 Area), EM31 Data collection in the Inactive Munitions Waste Pit MRS.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 1/27/2012
Weather Conditions: 80-20% Precip, Wind-S-W 10-15 MPH, Humidity, 100-56%	Temperature: 37-57F

Safety Discussion and Issues: MEC anticipated in the Shell Burial Grounds, FOA Areas.

QC Discussion and Issues: Lane set up for the MAG, EM61.

Other Discussion and Issues: Slips Trips and Falls, Dead Fall, Vines and Brambles, Rain Slick Woods.

Acknowledgement

Name	Company	Signature
Brian Junck	Weston	
Brian Guthrie	Weston	
Paul Novak	Weston	NP
Bruce Carnal	Weston	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Brian Junck

Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	30 Jan 2012, 0700 - 1700

WEATHER/TEMPERATURE: Cold and clear 37 high/29 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

858 Magnetometer transect data collection was performed in the following areas:

- Shell Burial Grounds (3100 Area)

EM31 transect data collection was performed in the following areas:

- Inactive Munitions Waste Pit (600 Area)

Brush cutting was performed in the following areas:

- Former Operational Area (1100 Area)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 31 Jan 2012: 858 Magnetometer Data collection in the Shell Burial Grounds MRS (3100 Area).

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 1/30/2012
Weather Conditions: 0-10% Precip, Wind-WNW-W 10-15 MPH, Humidity, 56-34%	Temperature: 29-37F

Safety Discussion and Issues: MEC anticipated in the Shell Burial Grounds, FOA Areas again.

QC Discussion and Issues: Lane set up for the MAG, EM61 again.

Other Discussion and Issues: Slips Trips and Falls, Dead Fall, Vines and Brambles.

Acknowledgement

Name	Company	Signature
Brian Junck	Weston	
Brian Guthrie	Weston	
Paul Novak	Weston	
Bruce Carnal	Weston	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Brian Junck

Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	31 Jan 2012, 0700 - 1700

WEATHER/TEMPERATURE: Cool and clear 52 high/30 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

858 Magnetometer transect data collection was performed in the following areas:

- Shell Burial Grounds (3100 Area)

Brush cutting was performed in the following areas:

- Former Operational Area (1100 Area)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 01 Feb 2012: EM61 Data collection in the Former Operational Area MRS (1100 Area).

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 1/31/2012
Weather Conditions: 20-0% Precip, SW 10-15 MPH, Humidity, 56-34%	Temperature: 30-52F

Safety Discussion and Issues: MEC overview, Warming Weather and Ticks.

QC Discussion and Issues: Lane set up for the MAG.

Other Discussion and Issues: Weed Eater Safety and Safe Distances.

Acknowledgement

Name	Company	Signature
Brian Junck	Weston	
Brian Guthrie	Weston	
Paul Novak	Weston	
Bruce Carnal	Weston	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Brian Junck

Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	01 Feb 2012, 0700 - 1700

WEATHER/TEMPERATURE: Cool and clear 56 high/46 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Brush cutting was performed in the following areas:

- Former Operational Area (1100 Area)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 02 Feb 2012: EM61 Data collection in the Former Operational Area MRS (1100 Area).

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	02 Feb 2012, 0700 - 1700

WEATHER/TEMPERATURE: Clear and cold 45 high/34 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

EM61 Data collection was performed in the following areas:

- Former Operational Area (1100 Area)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 03 Feb 2012: Brush cutting in the Shell Burial Grounds MRS (3100 Area), and EM61 Data collection Former Operational Area (1100 Area).

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 2/2/2012
Weather Conditions: 0% Precip, N-NNW 5-10 MPH, Humidity, 72-39%	Temperature: 34-45F

Safety Discussion and Issues: MEC in FOA.

QC Discussion and Issues: EM61 Transect Data Gathering.

Other Discussion and Issues: Slips Trips and Falls.

Acknowledgement

Name	Company	Signature
Brian Junck	Weston	
Brian Guthrie	Weston	
Paul Novak	Weston	
Bruce Carnal	Weston	
MEGAN GARRETT	USACE	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Brian Junck Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	13 Feb 2012, 0700 - 1700

WEATHER/TEMPERATURE: Clear and cold 40 high/21 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

EM61 Data collection was performed in the following areas:

- Former Operational Area (900 and 1100 Areas) – transect data collection is complete in these areas

Comments:

At 1520 an 81mm mortar (old style) with point detonating fuze was discovered near the 20/24 Area. The police were called and they arrived at 1530. The fire chief arrived at approximately 1535. The police and fire chief called EOD to dispose of the mortar.At 1555, EOD arrived on site. EOD decided to blow-in-place. EOD left at 1605, police stayed behind to guard mortar until EOD returned to complete the demolition activities.

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 14 Feb 2012: Perform EM31 surveys around the 20/24 Area pond; clear additional EM61 transects in the 20/24 Area and Waste Burial Area; and perform EM61 transects in 20/24 Area.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 2/13/2012
Weather Conditions: 0% Precip, WSW 5-15 MPH, Humidity, 59-36%	Temperature: 21-40F

Safety Discussion and Issues: Ordnance in FOA Area.

QC Discussion and Issues: Lane clearing for FOA Area.

Other Discussion and Issues: Slips Trips and Falls, Wet Ground, Ticks.

Acknowledgement

Name	Company	Signature
Brian Guthrie	Weston	
Paul Novak	Weston	
Bruce Carnal	Weston	

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Meeting Organizer: Bruce Carnal

Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	14 Feb 2012, 0700 - 1700

WEATHER/TEMPERATURE: Clear and cold 40 high/30 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

EM31 Data collection was performed in the following areas:

- Former Operational Area (1100 Area 20/24 Area) – EM31transect data collection is complete in these areas

Comments:

At approximately 1315 an 81mm mortar (old style) was discovered near the 20/24 Area. The Police were called and EOD arrived onsite at approximately 1335. EOD determined that the 81mm mortar was a dummy round.

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 15 Feb 2012: Brush cut additional EM61 transects in the 20/24 Area and Waste Burial Area, perform EM61 transects in 20/24 and Waste Burial Areas.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 2/14/2012
Weather Conditions: 0-20% Precip, SW-S 5-10 MPH, Humidity, 63-45%	Temperature: 30-40F

Safety Discussion and Issues: Ordnance in 1100 Area.

QC Discussion and Issues: Lane clearing for 1100 Area.

Other Discussion and Issues: Slips Trips and Falls, Wet Ground, Ticks.

Acknowledgement

Name	Company	Signature
Brian Guthrie	Weston	
Paul Novak	Weston	
Bruce Carnal	Weston	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Bruce Carnal Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	15 Feb 2012, 0700 - 1700

WEATHER/TEMPERATURE: Clear and cold 46 high/34 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

EM61 Transect Data collection and brush cutting was performed in the following areas:

- Former Operational Area (20/24 and Waste Burial Area)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 16 Feb 2012: Reconnaissance of potential DGM grid locations in the Former Operational Area MRS. Perform EM61 transects in 20/24 Area.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 2/15/2012
Weather Conditions: 30-10% Precip, NE-NW 5-10 MPH, Humidity, 82-52%	Temperature: 34-46F

Safety Discussion and Issues: Ordnance in 1100,20-24 Area.

QC Discussion and Issues: Lane clearing for 1100 Area, 20-24.

Other Discussion and Issues: Slips Trips and Falls, Wet Ground, Ticks.

Acknowledgement

Name	Company	Signature
Brian Guthrie	Weston	
Paul Novak	Weston	
Bruce Carnal	Weston	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Bruce Carnal

Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	16 Feb 2012, 0700 - 1700

WEATHER/TEMPERATURE: Clear and cold 42 high/28 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

Field team performed reconnaissance within the Former Operational Area MRS for potential grid locations and performed verification of locations of surface debris within survey areas.

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 17 Feb 2012: Perform EM61 transects in 20/24 Area and stake out additional grid locations.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 2/16/2012
Weather Conditions: 20-80% Precip, E-SE 5-10 MPH, Humidity, 70-62%	Temperature: 28-42F

Safety Discussion and Issues: Ordnance in 1100,20-24 Area and grid areas.

QC Discussion and Issues: Lane clearing for 1100 Area, 20-24 and grid areas.

Other Discussion and Issues: Slips Trips and Falls, Wet Ground, Ticks.

Acknowledgement

Name	Company	Signature
Brian Guthrie	Weston	
Paul Novak	Weston	
Bruce Carnal	Weston	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Bruce Carnal

Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	17 Feb 2012, 0700 - 1700

WEATHER/TEMPERATURE: Clear and cold 48 high/36 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

EM61 Transect Data collection and brush cutting was performed in the following areas:

- Former Operational Area (20/24 and Waste Burial Area)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 21 Feb 2012: Perform EM61 grid collection in Former Operational Area and stake out additional grid locations.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 2/17/2012
Weather Conditions: 20-0% Precip, W-WNW 5-15 MPH, Humidity, 89-34%	Temperature: 36-48F

Safety Discussion and Issues: Ordnance in 1100,20-24 Area and 900 Area.

QC Discussion and Issues: Lane clearing for 1100 Area, 20-24 and 900 Area.

Other Discussion and Issues: Slips Trips and Falls, Wet Ground, Ticks.

Acknowledgement

Name	Company	Signature
Brian Guthrie	Weston	
Paul Novak	Weston	
Bruce Carnal	Weston	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Bruce Carnal Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	21 Feb 2012, 0700 - 1700

WEATHER/TEMPERATURE: Clear and cold 44 high/19 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

EM61 Grid Data collection and brush cutting was performed in the following areas:

- Former Operational Area (1100 and 900 Areas)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 22 Feb 2012: Perform EM61 grid collection in Former Operational Area.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 2/21/2012
Weather Conditions: 0-20% Precip, SSE 5-15 MPH, Humidity, 59-43%	Temperature: 19-44F

Safety Discussion and Issues: Ordnance in 1100 and 900 Areas.

QC Discussion and Issues: Grid clearing/set up for 1100 and 900 Areas.

Other Discussion and Issues: Slips Trips and Falls, Dead Fall, Ticks.

Acknowledgement

Name	Company	Signature
Brian Guthrie	Weston	
Paul Novak	Weston	
Bruce Carnal	Weston	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Bruce Carnal

Signature:

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	11 Apr 2012

WEATHER: 38 - 54 Mostly Cloudy

WORK LOCATION: Northwest of the 200 Area (Former Code 300 Area), and 1100 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown
Geo Tech: K. Schlosser

Team location: 1100 Area

Worked performed:

Marking transects, brush cutting, mag and dig in transects FOA-T11 (2,000 ft), T12 (4,200 ft), T13 (3,850 ft), T14 (2,680 ft), T15 (1,930 ft) and T18 (800 ft).

Comments:

- Found 1 each 81mm mortar in transect 14, deemed safe to move by SUXOS and UXOSO/QC, and transported and stored in magazine. Location of item found: UTM 18N WGS 1984 (1757847.53E, 14863952.6N).
- Found 7 each 81mm Mortars and (1) 60mm Mortar in transect 18, all deemed safe to move by SUXOS and UXOSO/QC, and transported and stored in Magazine. Location of items found: UTM 18N WGS 1984 (1756412.41E, 14864076.78N).
- Found 1 each 60mm Mortar (suspected WP body) in transect 13, deemed safe to move by SUXOS and UXOSO/QC, and transported and stored in magazine. Location of item found: UTM 18N WGS 1984 (1758587.3E, 14864351.01N).

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: Former Code 300 Area
Worked performed: Density transects in C30-T02 (880 ft), T03 (1,050 ft), T04 (1,020 ft), T05 (1,830 ft), T07 (1,700 ft) and T08 (320 ft); and mag and dig grid 26OR-014.

Comments: No MD or MEC/MPPEH related materials recovered.

DATA TRACKING:

Analog Survey Transects/Grids:
Former Code 300 density transects C30-T02, T03, T04, T05, T07 and T08 (Total of 6,800 ft).

Mag and dig in grid 26OR-014.

1100 Area Mag and Dig Transects FOA-T11, T12, T13, T14, T15 and T18 (Total of 14,960 ft).

Items Recovered Today:
MEC/MPPEH: 8 each 81 mm mortars, 2 each 60mm mortars.
MD: 13 lbs
CD: 336 lbs

DGM Grids/Transects: None

DGM Grids/Transects Reacquired: None

Comments:

QC/QA:

Other work performed:

Comments:

PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/11/2012

Describe daily QC activities: No QY performed today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 4/11/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	12 Apr 2012

WEATHER: 40 – 67 Clear

WORK LOCATION: 1100 Area, Former Code 300 Area, and West of 1400 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown
Geo Tech: K. Schlosser

Team location: 1100 Area

Worked performed: Mag and dig in transects 11 (1,975 ft), 12 (400 ft), 13 (650 ft), 14 (425 ft), 15 (1,255 ft), 17 (1,500 ft), 18 (1,525 ft), 19 (1,400 ft), 20 (1,250 ft), 23 (1,875 ft), 24 (1,775 ft), and 25 (1,400 ft).

Comments:
Found 1 ea 81mm mortar with new-style sheared fuze in transect 25, deemed safe to move by SUXOS and UXOSO/QC, and transported and stored in magazine. Location of items found: UTM 18N WGS 1984 (1754536.47E, 14864600.68N).

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: Former Code 300 Area and West of 1400 Area

Worked performed: Mag and dig grids 26OR-015 and 26OR-086.

Comments: Also conducted brush cutting near Green Pond Brook in 300 Area.

DATA TRACKING:

Analog Survey Transects/Grids:
Transects11, 12, 13, 14, 15, 17, 18, 19, 20, 23, 24, and 25 in 1100 area (Total 15,430 ft); grids 26OR-015 and 26OR-086 in Former Code 300 area and West of 1400 area.

Items Recovered Today:
MEC/MPPEH: 81mm mortar
MD: 5 lbs
CD: 140 lbs

DGM Grids/Transects: None

DGM Grids/Transects Reacquired: None

Comments:

QC/QA:

Other work performed:

Comments:

PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/12/2012

Describe daily QC activities: No QY performed today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 4/12/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	13 Apr 2012

WEATHER: 40 – 64 Clear

WORK LOCATION: 1100 Area, 1600 Area, Former Code 300 Area, West of 1400 Area, and East of 1350 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown
Geo Tech: K. Schlosser

Team location: 1100 Area
Worked performed: Conducted mag and dig ops in transects 25 (600 ft), 26 (1,675 ft), 27 (2,150 ft), 28 (1,425 ft), 29 (1,575 ft), 30 (1,950 ft), and 31 (1,475 ft).

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: Former Code 300 Area, West of 1400 Area, and East of 1350 Area

Worked performed: Mag and dig in grids 26IR-016, and grids 26OR-078, 087, 088, 089, 090, 093, 094, and 096.

Comments:

DATA TRACKING:

Analog Survey Transects/Grids:
Transects in 1100 and 1600 Area (total 10,860 ft); grids in Former Code 300 Area, West of 1400 Area, and East of 1350 Area.

Items Recovered Today:
MEC/MPPEH: None
MD: 7 lbs
CD: 121 lbs

DGM Grids/Transects: None

DGM Grids/Transects Reacquired: None

Comments:

QC/QA: QC'ed 26OR 003, 012, 014, and 015 – no QC failures

Other work performed:

Comments:

PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/13/2012

Describe daily QC activities: Performed Grid QC. All passed QC with OESS Observing.

Grid QC: 26OR-003, 26OR-012, 26OR-14, 26OR-15

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 4/13/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	14 Apr 2012

WEATHER: 39 – 69 Clear

WORK LOCATION: 1600 Area, Green Pond Brook, and Former Code 300 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☐ DGM activities (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

16 yards of sand for demo-ops in the Gorge.

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown
Geo Tech: K. Schlosser

Team location: 1600 Area

Worked performed: Conducted mag and dig ops in transects 16 (1,850 ft – dug on 4/12, but GPS was not turned on for tracking), 21 (1,100 ft), 22 (900 ft), 23 (175 ft), 24 (285 ft), 25 (350 ft), 26 (600 ft), 27 (1,430 ft), 28 (1,225 ft), 29 (1,800 ft), 30 (1,550 ft), 31 (1,840 ft) and 32 (2,775 ft).

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: Former Code 300 Area

Worked performed: Conducted reacquire and intrusive investigation in grid 26OR-011 (82 digs).

Comments: Found 1 ea 105mm HEAT round (unfired). Item and condition verified, deemed safe to move, and transported to and stowed in the magazine. Location of item: UTM 18N (14870667.52E, 1759060.604N).

DATA TRACKING:

Analog Survey Transects/Grids:
Transects in 1100 and 1600 Area (total 15,880 ft); and 26OR-011 (total 82 digs).

Items Recovered Today:
MEC/MPPEH: 1 ea 105mm HEAT, and 1 ea 81mm mortar (practice)
MD: 23 lbs
CD: 300 lbs

DGM Grids/Transects: 26OR-011

DGM Grids/Transects Reacquired: Grid 26OR-011 and Green Pond Brook Area transect

Comments:
1 ea 81mm mortar practice round was discovered in February in the 20/24 Area during the DGM phase. It was reported to EOD, who asked that we return to the round during the intrusive investigation phase and then remove it to the magazine. It was picked up on 14 Apr 2012 and moved into the magazine. The round was located at UTM 18N WGS 1984 (1755051.8E, 14864378.2N).

QC/QA:

Other work performed:

Comments:

PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/14/2012

Describe daily QC activities: No grids QC'd today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 4/14/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	18 Apr 2012

WEATHER: 44 – 61 Clear

WORK LOCATION: 1100 , 1600, 3200, and 3300 Areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

Backhoe, case model 580N

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown
Geo Tech: K. Schlosser

Team location: 1100 and 1600 Areas

Worked performed: Conducted mag and dig operations along transects FOA 28 (1,175 ft), 29 (1,200 ft), 30 (1,175 ft), 32 (775 ft), 33 (2,050 ft), 34 (650 ft), 35 (1,450 ft), 36 (1,075 ft) and 37 (350 ft), and Mag/Flag/Record along density transects C30- 002 (2,300 ft), 003 (1,725 ft), 004 (1,825 ft), 005 (1,940 ft) and 006 (1,655 ft).

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: West of 3200 Area, and 3300 Area

Worked performed: Intrusive investigation in grids 26OR-030, 33, 34, 46, 50, 51, 52, 54, and 55.

Comments:

DATA TRACKING:

Analog Survey Transects/Grids:
Transects FOA 28, 29, 30, 32, 33, 34, 35, 36 and 37 (total 9,900 ft); density transects C30-002, 003, 004, 005, 006 (total 9,445 ft); and grids 26OR-030, 33, 34, 46, 50, 51, 52, 54 and 55.

Items Recovered Today:
MEC/MPPEH: none
MD: 18 lbs
CD: 95 lbs

DGM Grids/Transects: None

DGM Grids/Transects Reacquired: None

Comments:
None

QC/QA: None

Other work performed:

Comments: Troy Phelps (WESTON) on-site to perform WESTON internal Quality Assurance inspection.

PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/18/2012

Describe daily QC activities: No QC's were done today.

Grid QC: N/A.

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 4/18/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	19 Apr 2012

WEATHER: 44-60 Clear

WORK LOCATION: 1100 and 3300 Areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☐ DGM activities (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

Comments: Intrusive investigation of DGM targets

MATERIALS DELIVERED (Amount, Condition, and Purpose):

Explosive Boosters, Sparta 200gm, 72 ea. (Explosive Supply Inc.), Donor explosives for demo ops

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown

Geo Tech:

Team location: 1100 area

Worked performed: Conducted Mag and Dig ops along transects FOA 005, 006, 007, 008, 009 and 010

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 3300 Area
Worked performed: Intrusive investigation in 1926 Explosion Radius MRS grids 26OR-031, 035, 047, 048, 049, 053 and 064.

Comments: Recovered a 5in projectile in grid 26OR-064. Item verified, deemed safe to move and transported to the magazine for future demo. Location – UTM 18N WGS 1984(1770198.69E, 14873044.24N)

DATA TRACKING:

Analog Survey Transects/Grids: Transects: FOA- 005, 006, 007, 008, 009 and 010
Grids: 26OR-047, 048, 049, 053 and 064
Comments:

Items Recovered Today:
MEC/MPPEH: 5in projectile, unfired (DMM)
MD: 6 lbs
CD: 106 lbs

DGM Grids/Transects: Grids: 26OR- 031 and 035

DGM Grids/Transects Reacquired: Grids 26OR- 016, 018, 019, 021, 031 and 035

Comments:

QC/QA:

Other work performed:

Comments:

PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/19/2012

Describe daily QC activities: DGM Grids. All passed.

Grid QC: 26OR-011, Points 6,7,11,12,27,30,31,34,39,40,41,42,51,56,60,67,73,87
26OR-013, Points 1,6,7,16,17,18,21,22,28,31
26OR-017, Points 4,6,8,11,19,20,27,31,35,36,38,39
26OR-020, Points 22,27,28,29,39,42,44,52,56,62,64,67

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 4/19/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	20 Apr 2012

WEATHER: 48-69 F Mostly Clear

WORK LOCATION: 1100 and 3100 Areas and Gorge

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☒ Equipment Issues (List below)
- ☐ Background Soil Sampling

Comments: Intrusive investigation of DGM targets

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

Case backhoe developed a minor hydraulic leak, contacted vendor for repairs. Repairs were completed on site, and fluid was retained within the hoe bucket.

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown
Geo Tech: K. Schlosser

Team location: 1100 area
Worked performed: Conducted Mag and Dig ops along transects FOA 005, 006, 007, 008, 009, 010, 011 and 012.
Comments: One way point FOA 10 WP 8-9 skipped due to a family of bears nearby.

Team 2:

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 3200 Area
Worked performed: Intrusive investigation in 1926 Explosion Radius MRS grids 26OR-018 and 021

Comments:

DATA TRACKING:

Analog Survey Transects/Grids: Transects: FOA- 005, 006, 007, 008, 009, 010, 011 and 012.
Comments:

Items Recovered Today:
MEC/MPPEH: 0
MD: 38 lbs
CD: 106 lbs

DGM Grids/Transects: Grids: 26OR- 018 and 021

DGM Grids/Transects Reacquired: 26IR 009, 010, 011, 012, 014, and 26OR 036 and 037

Comments:

QC/QA:

Other work performed: Demo operation of the 6in projectile.

Comments: Weston coordinated through Pica Range Control and was scheduled for Gorge activities the entire day. Due to scheduling conflicts with another army activity, demo operations were interrupted/halted at 1150 via a call from JB Smith to Range Control at 1100. Chris Yonat (USACE OESS) contacted JB and confirmed that Weston was requested to leave the Demo Range NLT 1200. The Weston PM was notified of the disruption of operations, and it was noted that this will have a negative impact on the schedule. All preparatory work (drawing and transporting donor explosives and MPPEH, notifications, Fire Dept on standby at range, preparing pit, etc) were completed and seven shots planned for the day. Only one shot was completed due to time constraints and disruption of operations. The remaining items scheduled for demolition will be completed on another scheduled “demo day”.

Heavy scheduled usage of the Gorge, the number of MPPEH/DMM accumulated to date, and unknown quantities yet to be found throughout this project may impact the schedule of operations.

PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/20/2012

Describe daily QC activities: No QC's done today.

Grid QC: N/A

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce Carnal

Approval Date: 4/20/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	21 Apr 2012

WEATHER: 53-71 Mostly Cloudy

WORK LOCATION: 1- 99, Green Pond MRS, 3100 Areas and Gorge

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☒ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

Backhoe repairs - completed on 20 Apr 2012

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown

Geo Tech:

Team location: 1-99 area, Green Pond Brook

Worked performed: Intrusive investigation 1-99 area DGM grids FOA-004, 005, 006 and 007; intrusive investigation in Green Pond MRS DGM transect and Mag and Dig along banks of Green Pond Brook.

Comments: Investigation of DGM targets in Green Pond MRS is complete.

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 3100 Area
Worked performed: Intrusive investigation in 1926 Explosion Radius MRS DGM grids 26IR-010 and 012 and 26OR-036 and 037

Comments:

DATA TRACKING:

Analog Survey Transects/Grids: N/A
Comments:

Items Recovered Today:
MEC/MPPEH: 3 ea. of base fuze, and 2 ea. of PD (MK 1) fuze.
MD: 304 lbs
CD: 128 lbs

DGM Grids/Transects: Grids: 26IR- 010 and 012; 26OR 36 and 37; FOA 004, 005, 006 and 007

DGM Grids/Transects Reacquired: FOA 004, 005, 006 and 007

Comments: Fuzes were inspected, deemed safe to move, and transported/stowed in the magazine for future disposal. Location of fuzes: UTM 18N, WGS 1984 (1764624.412E, 14871180.48N).

QC/QA: QC 26OR-30, 33 and 34 - no QC failures

Other work performed: Performed clean up and pit preparation at the Gorge.

Comments: Recovered residue of 6in projectile from 20 Apr 2012 partial demo operations and prepared pit for next demo day (scheduled for 27 Apr 12).

PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/21/2012

Describe daily QC activities: QC'd in the 3100 area.

Grid QC: 26OR-030, 26OR-033 and 26OR-34

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal

Approval Date: 4/21/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	25 Apr 2012

WEATHER: 41-56 F Mostly sunny, wind: 10-15 mph

WORK LOCATION: 1100 East; 1000 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, J. Betz, C. Stanford
Geo Tech: K. Schlosser

Team location: 1100 Area (East)
Worked performed: Mag and Dig along transects FOA 005 (775 ft), 006 (1,150 ft), 007 (1,165 ft), 008 (1,115 ft), 009 (950 ft), 010 (1,580 ft), 011 (800 ft), 012 (800 ft) and 013 (900 ft)
Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 1000 Area
Worked performed: Intrusive investigation in 1926 Explosion Radius MRS DGM grids 26IR-003, 26OR-016 and OR-019, and Analog grid 26IR- 006

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 1100 Area (East)
Worked performed: Mag and Dig along transects FOA 001 (3,400 ft), 002 (3,200 ft), 003 (2,950 ft) and 004 (2,760 ft)

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig along transects FOA 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012 and 013 (Total 21,545 ft) **Comments:**	
Items Recovered Today: **MEC/MPPEH**: 5 ea fuze (unknown model) components (detonators). Note: These are very small detonators (likely less than 5gr each NEW) **MD**: 30 lbs **CD**: 104 lbs	
DGM Grids/Transects: Intrusive Investigation Grids 26IR-003, 26OR-016 and 019	
DGM Grids/Transects Reacquired:	
Comments	
QC/QA: QC Grids: 26OR- 016, 018, 019, 021, 046, 047, 048, 049, 050, 051, 052, 053, 054, 055 and 064 - no QC failures	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/25/2012

Describe daily QC activities: QC'd in the 200 and 1500 area.

Grid QC: Mag and Dig; 26OR-046, 26OR-047, 26OR-048, 26OR049, 26OR050, 26OR-051, 26OR-052, 26OR-053, 26OR-054, 26OR-055, 26OR-064.
DGM; 26OR-016, Points 2,3,4,6,16,17,21,23
26OR-018, Points 3,4,11,12,15,16,17,26
26OR-019, Points 1,8,13,17,19,22,25,26,30,32,46
26OR-021, Points 3,8,13,16,17,19

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce Carnal Approval Date: 4/25/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	26 Apr 2012

WEATHER: 41-55 F Overcast; Wind: 5-10 mph

WORK LOCATION: 1100 East; Off Post Grids near 1390 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☐ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, J. Betz, C. Stanford
Geo Tech: K. Schlosser

Team location: 1100 Area (East)
Worked performed: Mag and Dig along transects FOA 008 (850 ft), 009 (1,025 ft), 010 (1,075 ft), 014 (1,440 ft), 015 (1,235 ft), 016 (990 ft), 017 (675 ft) and 018 (300 ft)
Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: SE of 1300 area – off-post.
Worked performed: Intrusive investigation (Mag and Dig) in Grids 26OR-065, 068, 069, 070, 071 and 103

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 1100 Area (East)
Worked performed: Mag and Dig along transects FOA 005 (1,160 ft), 006 (770 ft), 007 (775 ft), 011 (1,190 ft), 012 (1,185 ft) and 013 (1,275 ft)

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig along transects FOA 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017 and 018 (Total 13,945 ft); Mag and Dig Grids 26OR-065, 068, 069, 070, 071 and 103 **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 0 lbs **CD**: 155 lbs	
DGM Grids/Transects:	
DGM Grids/Transects Reacquired: 26OR- 038, 039, 040, 098, 099, 100 and 101, and 26IR- 007 and 008	
Comments	
QC/QA:	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey

Date: 4/26/2012

Describe daily QC activities: No QC's done today.

Grid QC: N/A

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 4/26/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	27 Apr 2012

WEATHER: 42- 53 F Mostly Cloudy; Wind 15-20

WORK LOCATION: 1100 East, 1100 West; Off Post Grids near 1390 Area, Gorge (Demo Operations)

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☐ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance.
☒ Administrative operations.	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, J. Betz, C. Stanford
Geo Tech: K. Schlosser

Team location: 1100 Area (East)
Worked performed: Mag and Dig along transects FOA 014 (705 ft), 015 (590 ft), 016 (280 ft), 017 (390 ft), 018 (500 ft), 035 (725 ft), 036 (1,080 ft), 037 (1,050 ft), 038 (2,340 ft), 039 (2,225 ft) and 040 (790 ft)
Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech: H.Culton, D.Post

Team location: SE of 1300 area – off-post
Worked performed: Intrusive investigation (Mag and Dig) in Grids 1926 Explosion Radius MRS Off Post 26OR-063, 067, 072, 073 and 074; reacquisition of DGM anomaly targets in grids 26OR- 042, 043, 045, 079, 080, 091, 092, 095 and 097, and 26IR- 004 and 013.

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: Gorge, 1100 Area (East)
Worked performed: Demo Operations at the Gorge (see comments); assisted Team 1 in 1100 Area (East)

Comments: Conducted demolition procedures on the following:
22 ea 81mm mortars
2 ea 60mm mortars
1 ea 5in common projectile
1 ea 105mm HEAT projectile
1 ea 75mm shrapnel projectile
2 ea MK I nose fuze
3 ea MK II base fuze
5 ea Fuze components (detonators)

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig along transects FOA-014, 015, 016, 017, 018, 035, 036, 037, 038, 039 and 040; Mag and Dig Grids 26OR-063, 067, 072, 073 and 074 **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 20 lbs **CD**: 85 lbs	
DGM Grids/Transects:	
DGM Grids/Transects Reacquired: 26OR- 042, 043, 045, 079, 080, 091, 092, 095 and 097 and 26IR- 004 and 013	
Comments	
QC/QA: Not performed	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/27/2012

Describe daily QC activities: No QC's done today.

Grid QC: N/A

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal II

Approval Date: 4/27/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	28 Apr 2012

WEATHER: 32- 56 F Partly Cloudy; Winds 5-10 MPH

WORK LOCATION: 900, 1100 East, 1200, 1350, 1400 and East of 3300 Areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, J. Betz, C. Stanford
Geo Tech: K. Schlosser

Team location: 1100 Area (East), Lake Demark MRS
Worked performed: Mag and Dig along transects FOA-041 (660 ft) and LDM- 046 (1,475 ft), 047 (1,310 ft), 048 (1,175 ft), 049 (1,170 ft), 050 (720 ft), 052 (120 ft), 053 (670 ft), 054 (615 ft), 055 (575 ft) and 056 (400 ft).

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: East of 1350, 1400 and East of 3300 areas (1926 Explosion Radius MRS)
Worked performed: Intrusive investigation of DGM Grids 26OR-042, 043, 045, 079, 080, 091, 092, 095, 097, 099, and 101, and 26IR-013

Comments: Two MC soil samples were collected from the Green Pond MRS (300 Marsh Area) corresponding to locations where MD/MPPEH was recovered.

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 900 Area
Worked performed: Intrusive Investigation (Mag and Dig) along transects FOA-063 (1,800 ft), 064 (2,610 ft) and 065 (3,900 ft)

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig along transects FOA-041, 063, 064 and 065, and LDM- 046, 047, 048, 049, 050, 052, 053, 054, 055 and 056 (Total 17,200 ft) **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 60 lbs **CD**: 162 lbs	
DGM Grids/Transects: Intrusive Investigation of DGM Grids 26OR-042, 043, 045, 079, 080, 091, 092, 095, 097, 099, and 101, and 26IR-013	
DGM Grids/Transects Reacquired: None	
Comments	
QC/QA: QC Grids 26IR-010 and 26OR-042, 043 and 045 – no QC failure	
Other work performed: Munitions Constituents Sampling **Comments**: Samples were taken at two locations in the Green Pond Brook MRS (300 Marsh Area)	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey

Date: 4/28/2012

Describe daily QC activities: DGM Grids in 1500 and 3100 areas. As with all prior grids, QC'd at least 20%. All passed.

Grid QC: 26IR-010, Points 1,3,4,6,10,16,17,18,21,22,26,27,35,36,37,41,46,53,54,57,58,61,67,72,79.
26OR-042, Points 1,2,4,5,6
26OR-043, Points 1,2,3,4,5,10,11,12,13,14,15,16,17
26OR-045, Points 1,2,3,4,5,6,8,9,10,11,12,13,14,16,17

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Bruce A Carnal II

Approval Date: 4/28/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	29 Apr 2012

WEATHER: 35- 59 F Clear, Winds 5-10 MPH

WORK LOCATION: 1-99 Area, Lake Denmark Area, 1100 East, 1200, 1350, 1400 and East of 3300 Areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, J. Betz, C. Stanford
Geo Tech: K. Schlosser

Team location: Lake Denmark and 1100 Area
Worked performed: Mag and Dig along transects LDM 041 (815 ft), 042 (920 ft), 043 (1,520 ft), 044 (1,235 ft), 045 (1,135 ft), 050 (360 ft), 051 (680 ft) and 052 (280 ft), and FOA 018
Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: East of 1350 and East of 3300 areas
Worked performed: Intrusive investigation of DGM Grids 26OR-038, 039, 040, 098, 100, and Analog Grid 102

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 900 Area
Worked performed: Intrusive Investigation of remaining targets along the DGM Transects in the 1-99 area
Comments:

DATA TRACKING:

Analog Survey Transects/Grids: Mag and Dig along transects FOA-018, and LDM- 041, 042, 043, 044, 045, 050, 051 and 052 (Total 6,945 ft); Mag and dig in analog Grid 102.

Comments:

Items Recovered Today:
MEC/MPPEH: 17 ea 81mm mortar; 1 ea 60mm mortar; 1 ea rifle grenade; 1 ea rifle grenade fuze
MD: 9 lbs
CD: 192 lbs

DGM Grids/Transects Reacquired:
None

Comments: MPPEH recovered was inspected, deemed safe to move, and stored in a magazine for future demolition. All items found were in Transect FOA-018.	
QC/QA: QC'd Grids 26IR-006, 013 and 016, and 26OR-078,079, 080, 091, 092, 095, 097, 098, 099, 100, 101 and 102 – No QC failures	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/29/2012

Describe daily QC activities: DGM and Mag and Dig Grids in 1000, 1300, 1400 areas. All girds QC'd at least 20%. All passed.

Grid QC: Mag and Dig Grids; 26IR-006, 26IR-016, 26OR-078, 26OR-102
DGM Grids; 26IR-013, Points1,2,3,4,5,61,12,13,14,15,16,17,18,19
26OR-079, Points 1,3,5,,8,9,10
26OR-080, Points 1,2,6,8
26OR-091, Points 2,4,7
26OR-092, Points 8,10,13,15,17,18,21,25,26,28,30,31,32,33,34,36
26OR-095, Points 3,4,6,8,10,11,15,17,24,25,27
26OR-097, Points 1,2,3,4,5,6,7,8,10,11,13,15,16,17,18,19,20
26OR-098, Points 1,3,4,6,12,13,14,15,16,27,34,35,36,38,41,42,45
26OR-099, Points 1,2,7,8
26OR-100, Points 4,10,12,13,14,17,22,24,26,27,29,30,32,34,36,37,39
26OR-101, Points 4,7,13,14,19,23,24,27,29,30,31,32,33,34,36,38,39,44,47,48,49,52,53,54,56

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce Carnal Approval Date: 4/29/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	4 Apr 2012

WEATHER: 46 - 63 Clear

WORK LOCATION: Northwest of the 200 Area (Former Code 300 Area), 1100 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

Sand (Bulk and bagged) 6cu yd., Connex 20 ft (Arcadis) delivered

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown
Geo Tech: K. Schlosser

Team location: 1100 Area
Worked performed: Marking transects, brush cutting, mag and dig in transects 18 and 19
Comments: None

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech: None

Team location: Northwest of the 200 Area (Former Code 300 Area)
Worked performed: Completed approximately 2200 ft of density transects (non intrusive) and M&D in grids 26OR 008, 009, 010
Comments:
No MD or MEC/MPPEH related materials recovered

Team 3

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel: None

UXO Tech:
Geo Tech:

Team location:
Worked performed:
Comments:

Team 4

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel: None

UXO Techs:
Geo Tech:

Team location:
Worked performed:
Comments:

DATA TRACKING:

Analog Survey Transects: Code 300 Density Transects: 2200 ft

Items Recovered Today:

MEC/MPPEH: None **MD**: 1 lb **CD**: 7 lbs	
DGM Grids: None	
DGM Grids Reacquired: None	
Comments: None	
QA/QC: None	
Other work performed: **Comments:** Project kick-off meeting held on 3 Apr 12; discussed schedule, contacts, coordination, transport of items to Gorge, scheduling of intended demo ops. A meeting was held at range control on 4 Apr 12 to discuss demo ops followed by a walk thru of the Gorge firing area, procedures for use, notifications, scheduling and co-ordination. Weston SUXOS and UXOSO/QCS also checked the magazine area with R. Morgan (ARDEC). Summary of walk-through distributed by L. Pastor (Weston PM) to Al Lennox (ARDEC Range Control) and Rodney Morgan (ARDEC) for review. Waiting on concurrence prior to a wider distribution.	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/4/2012

Describe daily QC activities: No QC done today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal

Approval Date: 4/4/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	5 Apr 2012

WEATHER: 38 – 54 Clear

WORK LOCATION: Northwest of the 200 Area (Former Code 300 Area), 1100 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location).
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown
Geo Tech: K. Schlosser

Team location: 1100 Area
Worked performed: Marking transects, brush cutting, mag and dig in transects 18 (300 ft) and 19 (1,400 ft)
Comments: Found (8) 81MM mortars (MPPEH) in transect 18, all deemed safe-to-move by SUXOS and UXOSO/QCS. Transported and stored in magazine. Location of items found: UTM 18N, WGS1984 (1756343E, 14864017N).

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: Northwest of the 200 Area (Former Code 300 Area)
Worked performed: Completed approximately 4750 ft density transects and M&D grids 26OR 004, 005, 006, 007 and 012
Comments:
No MD or MEC/MPPEH related materials recovered

Team 3

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel: None

UXO Tech:
Geo Tech:

Team location:
Worked performed:
Comments:

Team 4

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel: None

UXO Techs:
Geo Tech:

Team location:
Worked performed:
Comments:

DATA TRACKING:	
Analog Survey Transects: Density transects on 4750 ft; 1100 Area – a total of 1700 ft over transects 18 and 19.	
Items Recovered Today: **MEC/MPPEH**: (8) ea 81MM Mortar (1100 area, Transect 18) **MD**: 3 lbs **CD**: 107 lbs	
DGM Grids: None	
DGM Grids Reacquired: None	
Comments: Mortars found were inspected by SUXOS and UXOSO/QCS (also checked by Chris Yonat of USACE OESS) and deemed safe to move, transported and stored in magazine.	
QA/QC: Grids 26OR- 004, 006, 007, 008, 009 and 010 – no grid failures	
Other work performed: **Comments:**	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/5/2012

Describe daily QC activities: Performed QC on Arcadis grids in 219 Area behind 600 Area.

Grid QC: 26OR-004, 26OR-006, 26OR-007, 26OR-008, 26OR-009, 26OR-010

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 4/5/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	6 Apr 2012

WEATHER: 38 – 54 Clear

WORK LOCATION: Northwest of the 200 Area (Former Code 300 Area), 1100 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, E. Kidder, J. Leseiko, J. Betz, C. Stanford, J. Brown
Geo Tech: K. Schlosser

Team location: 1100 Area

Worked performed: Marking transects, brush cutting, mag and dig in transects 16 (2,275 ft), 17 (2,025 ft), 18 (1,150 ft) and 20 (1,100 ft)

Comments: Found (1) 60mm mortar and (1) potential frag-ball in transect 16, all deemed safe to move by SUXOS and UXOSO/QC, and were transported and stored in magazine. Location of items found: UTM 18N WGS 1984 (1757169.44E, 14864049.1N).

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: Former Code 300 Area
Worked performed: Completed approximately 3,424 ft of density transects and grids 26OR 001, 002, and 003
Comments:
Found (1) 6in projectile in 26OR 003, all deemed safe to move by SUXOS and UXOSO/QC, and transported and stored in magazine. Location of items found: UTM 18N WGS 1984 (1761905.5Em 14875267.6N).

Team 3

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel: None

UXO Tech:
Geo Tech:

Team location:
Worked performed:
Comments:

Team 4

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel: None.

UXO Techs:
Geo Tech:

Team location:
Worked performed:
Comments:

DATA TRACKING:	
Analog Survey Transects: Former Code 300 Density Transects (3,425 ft total) and grids 26OR 001, 002, 003 and 012; 1100 Area Transects 16, 17, 18 and 20 (6,550 ft).	
Items Recovered Today: **MEC/MPPEH**: 6in projectile (Navy); 81mm practice mortar. **MD**: 6 **CD**: 20	
DGM Grids: None	
DGM Grids Reacquired: None	
Comments: 6in projectile and 81mm practice mortar inspected by SUXOS and UXOSO/QC and OESS deemed safe to move, and transported and stored in magazine.	
QA/QC: Grids 26OR- 001, 002, and 012 – no grid failures	
Other work performed: **Comments:**	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/6/2012

Describe daily QC activities: Performed QC on Arcadis grids in 219 Area behind 600 Area.

Grid QC: 26OR-001, 26OR-002, 26OR-005.

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 4/6/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	02 May 2012

WEATHER: 55- 59 AM Rain, PM Overcast, Winds 5-10 MPH

WORK LOCATION: 800, North of 3400 and 3600 Areas and Off Post.

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, J. Betz, C. Stanford
Geo Tech: K. Schlosser

Team location: 3600 Area

Worked performed: Mag and Dig along transects FOA 042 (210 ft), 043 (480 ft), 044 (735 ft), 045 (980 ft), 046 (1,830 ft), 047 (1,500 ft), 048 (980 ft), 049 (425 ft), and 053 (1,365 ft)

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 800 Area and Off Post
Worked performed: Intrusive investigation (Mag and Dig) of Analog Grids 26OR-024, 027 and 066

Comments: Grid 26OR-024 was started but not completed.

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: North of 3400 Area
Worked performed: Mag and Dig along Transects FOA 060 (1,785 ft), 061 (3,400 ft), 062 (3,500 ft), 063 (1,820 ft) and 064 (1,115 ft)
Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig along transects FOA-042, 043, 044, 045, 046, 047, 048, 049, 053, 060, 061, 062, 063 and 064 (Total 20,125 ft). Mag and Dig of Analog Grids: 26OR-024, 027 and 066. **Comments:** Intrusive investigation of Grid 26OR-024 is incomplete.	
Items Recovered Today: **MEC/MPPEH**: 37mm projectile. **MD**: 9 lbs **CD**: 192 lbs	
DGM Grids/Transects:	
DGM Grids/Transects Reacquired: 26IR-002	
Comments: The 37mm projectile was inspected, deemed safe to move and transported to the magazine for future disposal. Location of item: UTM 18N WGS 1984 (1764657.28E, 14876657.20N).	
QC/QA: None Performed	
Other work performed: 13 soil samples and 2 re-samples were collected behind the 300 Area marsh in the Green Pond Brook MRS **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/02/2012

Describe daily QC activities: No QC's done today.

Grid QC: N/A

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Bruce A Carnal

Approval Date: 5/02/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	03 May 2012

WEATHER: 49-63 F, Rain, Winds 0-5 MPH

WORK LOCATION: 800 and East of 1500 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, J. Betz, C. Stanford
Geo Tech: K. Schlosser

Team location: East of 1500 Area

Worked performed: Mag and Dig along transects FOA 049 (970 ft), 050 (1,270 ft), 051 (790 ft), 052 (1,340 ft) and 054 (1,160 ft).

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, M.Fiedler, W.Strum, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech: H.Culton, D.Post

Team location: 800 Area
Worked performed: Mag and Dig of Analog Grids 26OR-023, 024, 029, 032 and 26IR-001, and Intrusive Investigation of DGM Grid 26IR-002.

Comments: 24in soil samples collected.

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: East of 1500 Area
Worked performed: Mag and Dig along transects FOA-055 (1,500 ft), 056 (1,870 ft), 057 (2,020 ft), 058 (1,960 ft), 059 (2,010 ft) and 060 (715 ft).

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig along transects FOA-049,050, 051, 052, 054, 055, 056, 057, 058, 059 and 060 (Total 15,605 ft). Mag and Dig of Analog Grids: 26OR-023, 024, 029, 032 and 26IR-001. **Comments:**	
Items Recovered Today: **MEC/MPPEH**: 1 ea 37mm projectile, 1 ea 75mm projectile, 2 ea 3in stokes mortar and 1 ea 3.5in rocket body (possible live fuze) **MD**: 559 lbs **CD**: 208 lbs	
DGM Grids/Transects: Intrusive investigation in grid 26IR-002	
DGM Grids/Transects Reacquired:	
Comments: All MPPEH found was inspected, deemed safe to move and transported to the magazine for future disposal.	
QC/QA:	
Other work performed: 24 soil samples were collected. **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/03/2012

Describe daily QC activities: Grids in the 800 area and the off base rights of entry area.

Grid QC: Mag and dig grids 26OR-023, 26OR-024, 26OR-065, 26OR-068, 26OR-069, 26OR-070, 26OR-071, 26OR-072, 26OR-073, 26OR-103.

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce Carnal

Approval Date: 5/03/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	04 May 2012

WEATHER: 54- 79 Overcast, Winds 5-10 MPH

WORK LOCATION:

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, J. Betz, C. Stanford
Geo Tech: K. Schlosser

Team location: Site 20/24 and Dredge Pile Areas.

Worked performed: Intrusive investigation of selected targets along DGM transects in 20/24 and Dredge Pile Areas.

Comments: J. Betz demobe (work till 1200)

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, M. Fiedler, W. Sturm, J. Hill, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 3000, 3300 Areas
Worked performed: Mag and Dig of Analog Grids 26OR-041 and 044, and Intrusive Investigation of DGM Grids 26IR-004, 007 and 008.

Comments: Two personnel scouting access routes. Two personnel (Hains and Ingram) demobe at COB.

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: Gorge (Demo); 20/24 and Dredge Pile Areas

Worked performed: Conducted demolition procedures on the following:
17 ea 81mm mortars
1 ea 60mm mortars
1 ea Rifle grenade
2 ea 37mm projectile
1 ea 75mm projectile
2 ea 3in stokes mortar
1 ea 3.5in rocket (empty body, but possible live fuze)

Intrusive investigation of selected targets along DGM transects in 20/24 and Dredge Pile areas (assisted Team 1).

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig of Analog Grids: 26OR-041 and 044. **Comments:**	
Items Recovered Today: **MEC/MPPEH**: 1 ea 60mm practice mortar, (possible spotting charge). **MD**: 173 lbs **CD**: 73 lbs	
DGM Grids/Transects: Intrusive investigation in grids 26IR-.004, 007 and 008, and selected targets in DGM transects in the 20/24 and Dredge Pile areas.	
DGM Grids/Transects Reacquired: Selected targets in DGM transects in the 20/24 and Dredge Pile areas	
Comments: MPPEH (60MM) was inspected, deemed safe to move and transported to the magazine for future disposal. Item located in 20/24 Area near building S72. See attached map.	
QC/QA: None Performed	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/04/2012

Describe daily QC activities: No QC's performed today.

Grid QC: N/A.

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 5/04/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	05 May 2012

WEATHER: 55- 68 Overcast, morning fog, Winds 5-10 MPH

WORK LOCATION: Dredge Pile Area, 800 and 1300 areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, C. Stanford
Geo Tech: K. Schlosser

Team location: Dredge Pile Areas

Worked performed: Intrusive investigation of selected targets along DGM transects in Dredge Pile Area

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: M. Fiedler, W. Sturm, J. Hill, N. Cox, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 800 and 1300 Areas
Worked performed: Mag and Dig of Analog Grids 26IR-005 and 015, and 26OR-022, 025 and 081

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance.
☒ Administrative operations.	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: Dredge Pile Areas

Worked performed: Intrusive investigation of selected targets along DGM transects in Dredge Pile areas

Comments: Dredge Pile area approx. 65% complete – significant contamination, large rocks and several deep targets hampering progress.

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig of Analog Grids: 26IR- 005 and 015 and 26OR- 022, 025 and 081 **Comments:**	
Items Recovered Today: **MEC/MPPEH**: 8 ea BLU 3B (inert)* **MD**: 118 lbs **CD**: 85 lbs Comment: * All visible indications on the BLU-3's are for completely inert rounds, however, they will be treated as MPPEH until verified on our next demo day.	
DGM Grids/Transects: Intrusive investigation of selected targets along DGM transects in the Dredge Pile area.	
DGM Grids/Transects Reacquired: Selected targets along DGM transects in the Dredge Pile area.	
Comments: (8) BLU 3B (inert) are located within the Dredge Piles adjacent to the Former Sanitary Landfill. See the attached map.	
QC/QA: None performed	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/05/2012

Describe daily QC activities: No QC's performed today.

Grid QC: N/A.

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A. Carnal Approval Date: 5/05/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	06 May 2012

WEATHER: 50- 63 Overcast, Winds 5-10 MPH

WORK LOCATION: 1300 and Green Pond Brook areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance.
☒ Administrative operations.	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, C. Stanford
Geo Tech: K. Schlosser

Team location: Green Pond Area

Worked performed: Mag and Dig in Green Pond areas SSW of bldg 314E and E of bldg 314D

Comments: 12 small glass vials (approx. 3”x1/4”) were found, one contained liquid. Items were found in one area, GPS location taken and position flagged. Will inform base safety/environmental office.

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: M. Fiedler, W. Sturm, J. Hill, N. Cox, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 1300 Area
Worked performed: Mag and Dig of Analog Grids 26OR-076, 077, 082, 083, 084 and 085

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: Green Pond Brook Area

Worked performed:
Mag and Dig in Green Pond areas SSW of bldg 314E and E of bldg 314D

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig of Analog Grids: 26OR-076, 077, 082, 083, 084 and 085 Mag and Dig in Green Pond Area **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 3 lbs **CD**: 232 lbs	
DGM Grids/Transects:	
DGM Grids/Transects Reacquired: Reacquired DGM transects in the Waste Burial Area	
Comments:	
QC/QA: Grids 26IR-003, 004, 005, 007, 008, 009 and 011, and 26OR-036, 037, 038, 039 and 040 – no QC failure	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/06/2012

Describe daily QC activities: Performed Grid QC in various areas. 20% of targets or grid QC'd at a minimum.

Grid QC: Mag and Dig Grid; 26IR-005
DGM Grids; 26IR-003 Points 2,3,9,15,23,30,31,36,37,38,40,42
26IR-004 Points 1,2,3,8,10,11,12,13,14,15,17,20,25,26,28,29,34,39,41,44,49,55,66,71,83,88,93,96,102,103,106, 112,114
26IR-007 Points 1,2,3,5,6,8,9,10,14,18,19,20,21,24,27
26IR-008 Points 5,7,9,11,13,14,16,17,18,19,21,23,25,27,29,30,33,35,42
26IR-009 Points 2,4,6,7,9,12,25,26,27,29,30,40,41,44,49,51,52,56
26IR-011 Points 6,7,9,10,18,19,29,30,31,37,38,39,40,42
26OR-036 Points 1,2,3,5,6,9,10,11,12,13,14,15,17,18,19
26OR-037 Points 1,2,3,4.6.8.9.10.11
26OR-038 Points 1,3,4,5,9,10,11,14,29,30,36,38,44
26OR-039 Points 1,2,3,4,5,7,8,9,10,12,13,15,16,17,18,19,20,21,22
26OR-040 Points 2,6,10,13,16,19,21,22,31,38,44,47,49,51,61,69

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal Approval Date: 5/06/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	09 May 2012

WEATHER: 58- 71 Overcast, Winds 5-10 MPH

WORK LOCATION: 1100 and 1200 areas and off post grids

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, C. Stanford
Geo Tech: K. Schlosser

Team location: Dredge Pile and Waste Burial Area

Worked performed: Intrusive investigation of selected targets along DGM transects in the Dredge Pile and Waste Burial Areas.

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: M. Fiedler, W. Sturm, J. Hill, N. Cox, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: Off Post Grids
Worked performed: Mag and Dig of Analog Grids 26OR-056, 057, 058, 059, 060, 061 and 062.

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: Lake Denmark

Worked performed:
Mag and Dig along Lake Denmark transects 001 (315 ft), 002 (220 ft), 003 (245 ft), 004 (840 ft), 005 (880 ft), 006 (885 ft), 007 (900 ft), 008 (960 ft), 009 (980 ft), 010 (1,020 ft), 011 (1,110 ft), 012 (1,110 ft) and 013 (1,000 ft).

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig of Analog Grids 26OR-056, 057, 058, 059, 060, 061 and 062. Mag and Dig Lake Denmark transects 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012 and 013 (Total 10,565 ft). **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 49 lbs **CD**: 83 lbs	
DGM Grids/Transects: Intrusive investigation of selected targets along DGM transects in the Dredge Pile and Waste Burial Areas.	
DGM Grids/Transects Reacquired: None	
Comments:	
QC/QA: Grids 26IR-001 and 002 and 26OR-022, 025, 027, 029, 031, 035, 041 and 044 – No grid failures	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/09/2012

Describe daily QC activities: Performed Grid QC in various areas. 20% of targets or grid QC'd at a minimum.

Grid QC: Mag and Dig Grid; 26IR-001, 26OR-022, 26OR-025, 26OR-027, 26OR-029, 26OR-041, 26OR-044
DGM Grids; 26IR-001, Points 4,5,21,26,30,31,33,40,42,44,48,50,51,52,55
26OR-031, Points 1,2,6,7
26OR-035, Points 6,7,8

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal Approval Date: 5/09/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	10 May 2012

WEATHER: 53- 62 Partly Cloudy, Winds 10-15 MPH

WORK LOCATION: 200, 900 and 1100 areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, C. Stanford
Geo Tech: K. Schlosser

Team location: Waste Burial and Dredge Pile Areas.

Worked performed: Intrusive investigation of selected targets along DGM transects in the Waste Burial Area and Mag and Dig in the Dredge Pile Area.

Comments: Mag and dig beyond Dredge Pile transects to help delineate extent of contamination and evaluate large pile to NE of transects.

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: M. Fiedler, W. Sturm, J. Hill, N. Cox, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 200 and 900 Areas
Worked performed: Mag and Dig of Analog Grids 26IR-017, and 26OR-026, 028 and 075.

Comments: Last work day for M. Fiedler.

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 900 Area

Worked performed:
Mag and Dig along transects 070 (1,430 ft), 071 (4,205 ft), 072 (0 ft) and 073 (0 ft).
Intrusive investigation of selected targets along DGM transects in 900 Area

Comments: Transects 072 and 073 are inaccessible due to steep/rough terrain.

DATA TRACKING:

Analog Survey Transects/Grids:

Mag and Dig of Analog Grids 26IR-017, and 26OR-026, 028 and 075.

Mag and Dig along transects 070, 071, 072 and 073 (Total 5,635 ft) in the 900 area.

Comments: Transects 072 and 073 are inaccessible due to steep/rough terrain.

Items Recovered Today:
MEC/MPPEH: None
MD: 20 lbs
CD: 204 lbs

DGM Grids/Transects: Intrusive investigation of selected targets along DGM transects in the Waste Burial and 900 Areas.

DGM Grids/Transects Reacquired: Reacquired selected targets along DGM transects in the Waste Burial area and the 900 area; and reacquired targets along DGM transects in the Waste Burial Area.

Comments:

QC/QA:
None performed

Other work performed:

Comments: A meeting/interview was held with Mr. John Rigalo (former PTA employee) to gather more information concerning activities in the "rice paddy" area and potential mortar firing points/direction of fire south of the Shinkle Rd/Brook Rd. intersection. Present were Mr. J. B. Smith (PTA, MMRP Safety), C. Yonat (USACE Balt. Dist. OESS) and L. Pastor (PM), W. Hess (SUXOS) and B. Carnal (UXOSO/QC) (WESTON).

PREPARED BY:	**SIGNATURE:**
Walter F. Hess	

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/10/2012

Describe daily QC activities: None performed today.

Grid QC: N/A

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 5/10/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	11 May 2012

WEATHER: 53- 62 Mostly sunny, Winds 10-15 MPH

WORK LOCATION: Former Code 300 Area, 900 Area, and 1100 Area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

4 ea 55 gal drums, good condition, for storing MD and CD.

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, C. Stanford
Geo Tech: K. Schlosser

Team location: Waste Burial Area

Worked performed: Intrusive investigation of selected targets along DGM transects in the Waste Burial Area.

Comments: Slow going due to significant amount of MD at each target area.

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: M. Fiedler, W. Sturm, J. Hill, N. Cox, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: Former Code 300 Area

Worked performed: Re-investigate portions of the Former Code 300 density transects to clarify and supplement data gathered earlier in the project.

Comments: 17 Areas along the density transects have been identified for the additional investigation, of which 9 were completed today.

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 900 Area

Worked performed:
Intrusive investigation of selected targets along DGM transects in 900 Area.

Comments: To date, 102 of 262 targets have been completed along these DGM transects.

DATA TRACKING:	
Analog Survey Transects/Grids: **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 75 lbs **CD**: 110 lbs	
DGM Grids/Transects: Intrusive investigation of selected targets along DGM transects in the Waste Burial Area and the 900 Area	
DGM Grids/Transects Reacquired: Reacquired selected targets along DGM transects in the 900 area.	
Comments:	
QC/QA: QC of grids 26IR-015 and 017, and 26OR-028, 032, 056, 057, 058, 059, 060, 061, 062, 063, 065, 066, 067, 074, 075, 076, and 077 – no grid failures	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/11/2012

Describe daily QC activities: QC'd the remaining off base grids and some on base grids. 20% of the grid QC'd at a minimum. All grids passed QC.

Grid QC: Mag and Dig Grid; 26IR-015, 26IR-017, 26OR-028, 26OR-056, 26OR-057, 26OR-058, 26OR-059, 26OR-060, 26OR-061, 26OR-062, 26OR-063, 26OR-066, 26OR-067, 26OR-074, 26OR-075, 26OR-076, 26OR-077.

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 5/11/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	12 May 2012

WEATHER: 49-75 F, Clear, Winds 10-15 MPH

WORK LOCATION: Code 300, 900 and 1100 areas

WORK COMPLETED:

- ☐ Surveyor activities.
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids).
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, C. Stanford
Geo Tech: K. Schlosser

Team location: Waste Burial Area

Worked performed: Intrusive investigation of selected targets along DGM transects in the Waste Burial Area.

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: W. Sturm, J. Hill, N. Cox, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: Code 300 Area

Worked performed: Re-investigate portions of the Code 300 density transects to clarify and supplement data gathered earlier in the project. Eight areas completed today.

Mag and Dig analog grid 26IR-018.

Comments: The 17 areas identified for additional investigation along the transects have been completed.

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 900 Area

Worked performed: Mag and Flag along density transects C30-007 (220 ft), 008 (1,300 ft), 009 (390 ft), 010 (160 ft), 011 (40 ft), 012 (80 ft), 013 (230 ft), 014 (530 ft), 015 (660 ft), 016 (990 ft) and 017 (330 ft).

Mag and dig along transects FOA 037 (2,245 ft) and 073 (480 ft) and IMW- 001 (140 ft).

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Flag along transects C30-007, 008, 009, 010, 011, 012, 013, 014, 015, 016 and 017 (Total 4,930 ft); Mag and dig along transects FOA 037 and 073 and IMW- 001 (Total 2,865 ft); Mag and dig grid 26OR-018. **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 153 lbs **CD**: 57 lbs	
DGM Grids/Transects: Intrusive investigation of selected targets along DGM transects in the Waste Burial Area.	
DGM Grids/Transects Reacquired: Reacquired along DGM transects in the 20/24 area	
Comments:	
QC/QA: QC of grids 26OR-026, 081, 082, 083, 084 and 085 and 26IR-018 – no grid failures	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/12/2012

Describe daily QC activities: QC'd the remaining 1926 grids. 20% of the grid QC'd at a minimum. All grids passed QC.

Grid QC: Mag and Dig Grid; 26OR-026, 26OR-081, 26OR-082, 26OR-083, 26OR-084, 26OR-085 and the add on grid 26IR-018. Also did not report grid 26OR-032 on 5/09/12, but it was QC'd that date and passed. All 1926 Grids have been QC'd and passed.

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal

Approval Date: 5/12/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	13 May 2012

WEATHER: 56-75 F, Clear, Winds 5-10 MPH

WORK LOCATION: 1000, 1100, 1400 and 3300 areas

WORK COMPLETED:

- ☐ Surveyor activities.
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, C. Stanford
Geo Tech: K. Schlosser

Team location: Waste Burial Area

Worked performed: Intrusive investigation of selected targets along DGM transects in the Waste Burial Area.

Comments: 34 targets remain to be investigated in this area.

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance.
☒ Administrative operations.	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: W. Sturm, J. Hill, N. Cox, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: 1000, 1400 and 3300 Areas

Worked performed: Restored (back fill, remove pin flags and stakes) 35 grids.
Re-acquired grid corners for 7 grids 26OR-002, 006, 007, 009, 033 and 088.

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 20/24 Area

Worked performed: Intrusive investigation of selected targets along DGM transects in the 20/24 Area

Comments: 92 targets remain to be investigated in this area.

DATA TRACKING:	
Analog Survey Transects/Grids: **Comments:**	
Items Recovered Today: **MEC/MPPEH**: 1 ea 60mm WP mortar; 1 ea M32 type sub-munition (likely practice); 3 ea 81mm practice mortars (possible spotting charge). **MD**: 95 lbs **CD**: 77 lbs **Comment:** All MPPEH/MEC were found in the 20/24 Area. A guard was posted overnight for the 60mm mortar and sub-munition that were left in place in the 20/24 area. EOD will evaluate items on 14 May 2012.	
DGM Grids/Transects: Intrusive investigation of selected targets along DGM transects in the Waste Burial and 20/24 Areas.	
DGM Grids/Transects Reacquired: Re-acquired grid corners for 7 grids 26OR-002, 006, 007, 009, 033 and 088.	
Comments:	
QC/QA: QC of grids FOA-04, 05, 06 and 07, in addition to transects DGM targets in FOA-S area (1-99 Area) – no failures	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/13/2012

Describe daily QC activities: QC'd Southern FOA Area, Grids and Transects.

Grid QC: DGM; FOA-4 Targets 1,2,5,9,10,12,15,16
FOA-5 Targets 1,2,3,4,5,6,8,10,11
FOA-6 Targets 2,3,4,7
FOA-7 Targets 2,3,4,66,8,9,10

Transect QC: DGM; FOA Targets
690,691,694,695,705,710,719,720,721,722,723,972,973,975,976,977,978,980,981,982,984,1741,1742,1743,1744,1745,1746,1747,1748,1871,1872,1873,1874,1875,1876,1900,1901,1902,1924,2170,2171,2172,2173,2174,2253,2254,2255,2256,2257

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal Approval Date: 5/13/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	16 May 2012

WEATHER: 59-77 F, Partly Cloudy, Winds 5 - 10 MPH

WORK LOCATION: 1100, 3300 and Code 300 areas

WORK COMPLETED:

- ☐ Surveyor activities.
- ☐ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: K. Schlosser

Team location: 20/24 Area

Worked performed:

Comments: R. Shellenbarger out today, C. Stanford and K. Schlosser assisting Team 3.

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: W. Sturm, N. Cox, J. Brawner
Geo Tech:

Team location: Code 300 Areas

Worked performed:
Delineated boundaries around grid 26IR-010.

Re-acquired grid corners for grids 26OR- 047, 048, 052, 053 and 071.

Re-investigated portions of the Code 300 density transects to clarify and supplement data gathered earlier in the project. Nine additional areas completed today.

Restored (back filled, removed pin flags and stakes) 5 grids.

Comments: J. Hill, T. Lolotai and R. Lolotai demobed on 15 May 12.

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 20/24 Area

Worked performed: Intrusive investigation of selected targets along DGM transects in the 20/24 Area

Comments: 181 selected targets have been intrusively investigated in this area, 4 targets remain to be investigated and 7 are underwater and cannot be intrusively investigated.

DATA TRACKING:	
Analog Survey Transects/Grids: **Comments:**	
Items Recovered Today: **MEC/MPPEH**: 1 ea 60mm practice mortar; 1 ea 81mm practice mortar (possible spotting charge); 1 ea 40mm HE grenade (DMM); and 1 ea 60mm HE mortar (DMM). **MD**: 60 lbs **CD**: 10 lbs **Comment:** All MEC/MPPEH listed were inspected, deemed safe to move and stowed in the magazine.	
DGM Grids/Transects: Intrusive investigation of selected targets along DGM transects in the 20/24 Area	
DGM Grids/Transects Reacquired:	
Comments:	
QC/QA: None performed	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/16/2012

Describe daily QC activities: No QC's done today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Bruce A Carnal

Approval Date: 5/16/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	17 May 2012

WEATHER: 50-69 F, Clear, Winds 5 - 10 MPH

WORK LOCATION: 1100 and 3600 areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids).
- ☒ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: K. Schlosser

Team location: Waste Burial Area; FOA Transect 18

Worked performed: Intrusive investigation of selected targets along DGM transects in the Waste Burial Area; and conducted Mag and Dig operations in transect FOA-018.

Comments: Waste Burial Area is complete, all targets intrusively investigated.

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: W. Sturm, N. Cox, J. Brawner
Geo Tech:

Team location: N/A

Worked performed: Subcontractor personnel (ARCADIS) and equipment demobilized.

Comments: W. Sturm, N. Cox, and J. Brawner demobilized from site 17 May 12.

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 20/24 Area, 3600 Area

Worked performed: Intrusive investigation of selected targets along DGM transects in the 20/24 Area; Mag and Dig transects FOA- 047 (450 ft), 048 (970 ft), 049 (1,010 ft), 050 (935 ft), 051 (650 ft), 052 (145 ft) and 054 (240 ft).

Comments: 20/24 area complete. 7 targets were not dug due to water.

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig transects FOA-018, 047, 048, 049, 050, 051, 052 and 054 (Total 4,400 ft) **Comments:**	
Items Recovered Today: **MEC/MPPEH**: 9 ea 81mm practice mortars, and 1 ea 60mm practice mortar (possible spotting charges) **MD**: 5 lbs **CD**: 43 lbs **Comment:** All MEC/MPPEH listed were inspected, deemed safe to move and stowed in the magazine.	
DGM Grids/Transects: Intrusive investigation of selected targets along DGM transects in the 20/24 and Waste Burial Areas.	
DGM Grids/Transects Reacquired:	
Comments: All MPPEH items were found during an additional investigation of Transect 18.	
QC/QA: Re-inspection of FOA Transect 18 – no failures. CENAB Form 948 issued by OESS for grids: 26IR-001 thru 26IR-017, and 26OR-001 thru 26OR103 – no QC failures	
Other work performed: Conducted investigation of areas near FOA Transect 18 to help delineation extent of mortars in the area. **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/17/2012

Describe daily QC activities: Transect 18 Re-inspection.

Grid QC: N/A

Transect QC: Transect 18 Re-inspection between waypoints 7 and 8. Passed Re-inspection and QC.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 5/17/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	20 May 2012

WEATHER: 54-75 F, Clear, Winds 5 - 10 MPH

WORK LOCATION: 900 and Picatinny Lake areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: K. Schlosser

Team location: Picatinny Lake

Worked performed: Conducted Mag and Dig transects along the bank/border of Picatinny Lake.

Comments: Approximately 65% of the transect is complete.

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs:

Geo Tech:

Team location:

Worked performed:

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operation	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown

Geo Tech:

Team location: 900 Area

Worked performed: Intrusive investigation of selected targets along DGM transects in the 900 area.

Comments: All of the 900 area DGM transects are complete.

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig transects along the banks/border of Picatinny Lake. **Comments:** Approximately 65% complete	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 5 lbs **CD**: 90 lbs **Comment:**	
DGM Grids/Transects: DGM targets in the 900 area.	
DGM Grids/Transects Reacquired: N/A	
Comments:	
QC/QA: Performed QC of DGM transects in Green Pond and 20/24 areas – all passed	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/20/2012

Describe daily QC activities: Green Pond Brook and 20-24 South Area DGM Transects QC'd at 20%+. Both Passed.

Grid QC: N/A

Transect QC: Green Pond Brook, Targets 1,2,3,7,8,9,10,11,25,26,27,28,29,30,31
20-24 South Area, Targets 0,6,7,11,16,18,21,41,36,49,56,57,58,60,66,70,74,75,86,88,91,94,97,103,116,118, 120,123,126,130,133,134,138,142,143,149,150,154,155,158,162,165,171,172,176,177,178,181,184,186,188,194

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Approval Date: 5/20/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	23 May 2012

WEATHER: 61 - 72 F, Overcast, Possible Thunderstorms, Winds 5 - 10 MPH

WORK LOCATION: 656 (IMW) and 1200 areas

WORK COMPLETED:

- ☒ DGM data collection
- ☒ Mag and Dig activities (List grid or location)
- ☐ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech:

Team location: Lake Denmark

Worked performed: Conducted Mag and Dig in transects LDM 32 (340 ft), 34 (345 ft), 35 (350 ft) and 36 (385 ft).

Comments: Lightning delays and poor GPS reception hindered operations. Lightning delays began at 1320, called teams in from field at 1440.

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs:

Geo Tech:

Team location:

Worked performed:

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Brown

Geo Tech:

Team location: IMW

Worked performed: Conducted Mag and Dig in Transects FOA-074 (1,685 ft) and 075 (1,080 ft), and IMW 002 (845 ft) and 003 (1,985 ft).

Comments: Lightning delays precluded completion of the IMW area today. Lightning delays began at 1320, called teams in from field at 1440.

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig transects along LDM 32, 34, 35 and 36, FOA-074 and 075, and IMW 002 and 003 (Total 7,015 ft) **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 0 lbs **CD**: 0 lbs **Comment:**	
DGM Grids/Transects:	
DGM Grids/Transects Reacquired: N/A	
Comments:	
QC/QA: None performed	
Other work performed: P.Novak and K.Schlosser collected EM-31 DGM data at the Inactive Munitions Waste Pit (IMWP) Area. Also, one munitions constituents (MC) sample taken. **Comments**: P.Novak was onsite on 22 May 2012 at the IMWP to take MC samples from the trenches generated by Shaw. Two MC samples were collected on 22 May 2012.	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/23/2012

Describe daily QC activities: No QC's done today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 5/23/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	24 May 2012

WEATHER: 59 - 72 F, Overcast , Possible showers and thunderstorms, Winds 5 - 10 MPH

WORK LOCATION: 656 (IWM) 900 and 1200 areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: K.Schlosser

Team location: Lake Denmark

Worked performed: Conducted Mag and Dig in transects LDM -014 (1,040 ft), 015 (1,000 ft), 016 (340 ft), 017 (380 ft), 020 (210 ft), 021 (740 ft) and 022 (785 ft).

Comments:

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs:

Geo Tech:

Team location:

Worked performed:

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Brown

Geo Tech:

Team location: IMW, 900 area

Worked performed: Conducted Mag and Dig in Transects IWM-004 (2,025 ft), and TOC (1,820 ft) and BOC (795 ft).

Intrusive investigation of DGM targets in Grids FOA-002 and 003.

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig transects along LDM-014, 015, 016, 017, 020, 021 and 022, IWM 001, and TOC and BOC (Total 9,135 ft). **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 3 lbs **CD**: 37 lbs **Comment:**	
DGM Grids/Transects: Intrusive investigation of DGM targets in Grids FOA-002 and 003.	
DGM Grids/Transects Reacquired: Reacquired DGM targets in Grids FOA-002 and 003.	
Comments:	
QC/QA: Performed in FOA North transects - no QC failures	
Other work performed: Four drums of Certified MDAS transferred to PTA with accompanying DD form 1348. One munitions constituents sample was collected at the Inactive Munitions Waste Pit Area by P.Novak. **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/24/2012

Describe daily QC activities: FOA North Transect

Grid QC: N/A

Transect QC: FOA North, Targets 64,65,66,67,68,69,70,121,122,123,124,125,126,582,583,584,585,586,587,801,802,803, 804,805,806,807,829,830,831,832,833,834,1128,1129,1130,1131,1132,1155,1156,1157,1158,1555,1556,

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal Approval Date: 5/24/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	25 May 2012

WEATHER: 60-73 F, Overcast , Possible showers and thunderstorms, Winds 5 - 10 MPH

WORK LOCATION: Gorge, 900 and 1200 areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: Ken Schlosser, P. Novak

Team location: Lake Denmark

Worked performed: Mag and Dig along transects LDM 042 (635 ft), 043 (1,145 ft) and 044 (325 ft); intrusive investigation of DGM targets in grid LDM-001; and push out to delineate the border of WBA contamination.

Comments:

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:
UXO Techs:
Geo Tech:
Team location:
Worked performed:
Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: Gorge, 900 area

Worked performed: Conducted Demo operations on 1 ea 37mm (1.7 lb) smoke/spotter projectile; and Intrusive investigation of DGM targets in Grid FOA-001.

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig along transects LDM 042, 043 and 044 (Total 2,105 ft). **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 0 lbs **CD:** 54 lbs **Comment:**	
DGM Grids/Transects: Intrusive investigation of DGM targets in grids LDM-001 and FOA-001.	
DGM Grids/Transects Reacquired: Reacquired DGM targets in grids LDM-001 and FOA-001.	
Comments:	
QC/QA: None performed.	
Other work performed: (3) Munitions Constituents samples shipped to laboratory for analysis. **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/25/2012

Describe daily QC activities: No QC done today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal

Approval Date: 5/25/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	26 May 2012

WEATHER: 62-82 F, Partly cloudy, Possible showers and thunderstorms, Winds 5 - 10 MPH

WORK LOCATION: Picatinny Lake

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS: Teams on lightning hold from 1435 – 1510.

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: Ken Schlosser

Team location: Picatinny Lake

Worked performed: Mag and Dig along the border of Picatinny Lake.

Comments: Picatinny Lake border transects complete.

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:
UXO Techs:
Geo Tech:
Team location:
Worked performed:
Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech: P. Novak

Team location: Picatinny Lake

Worked performed: Investigation of DGM areas near the Barbette Gun firing point.

Comments: Intrusive investigation of 13 selected areas was completed, and a push out completed to delineate the border of contamination.

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig along the border of Picatinny Lake. **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 12 lbs **CD**: 40 lbs **Comment:**	
DGM Grids/Transects: Intrusive investigation of selected DGM areas around the Barbette gun firing point.	
DGM Grids/Transects Reacquired: Reacquired DGM areas around the Barbette Gun firing point of Picatinny Lake.	
Comments:	
QC/QA: Performed QC checks of grids LDM 001, and FOA 001, 002 and 003 – no grid failures	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/26/2012

Describe daily QC activities: QC'd Lake Denmark and North FOA DGM Grids.

Grid QC: LDM-1, Targets 1,3,4,5,6,7,8,9,10,13,15,17,18,19,22,23,24,25,28,30,32,33,34,36,37,38,39,40,41,42,44,45,46,47, 48,49,52,53,54,55,57,58,59,60,62,63,64,65,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83
FOA-1, Targets 5,10,11,12,13,15,19,23,24,28,30,35,37,38,40,42
FOA-2, Targets 1,2,3,4,5,6,7
FOA-3, Targets 1,2,3,4,5,6,8,9,11,13,14,18,20,21

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal II

Approval Date: 5/26/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	31 May 2012

WEATHER: 60-76 F, Mostly sunny, Winds 5 - 10 MPH

WORK LOCATION: Lake Denmark, 1100 and 3100 area (Shell Burial Grounds)

WORK COMPLETED:

- ☐ Surveyor activities.
- ☒ Mag and Dig activities (List grid or location)
- ☐ Intrusive Investigation of DGM anomaly targets (List grids
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: Ken Schlosser

Team location: Lake Denmark, 1100 area

Worked performed: Mag and Dig along Lake Denmark shoreline (NE); and Mag and Dig along Transects FOA 020 (565 ft), 021 (780 ft) and 022 (535 ft).

Comments:

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:
UXO Techs:
Geo Tech:
Team location:
Worked performed:
Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Brown
Geo Tech:

Team location: Shell Burial Grounds

Worked performed: Conducted an analog survey to further define the extensively contaminated area surrounding/near grid 26IR-010.

Shell Burial Grounds (East) – Mag and dig 3 transects to the NW of previously gathered DGM data to better define the extent/type of metallic contamination.

Comments:

DATA TRACKING:

Analog Survey Transects/Grids:
Mag and Dig along Lake Denmark shoreline (NE).

Mag and Dig along Transects FOA 020, 021 and 022 (Total 1,880 ft).

Conducted analog survey to further define the extensively contaminated area surrounding/near grid 26IR-010.

Shell Burial Grounds (East) – Mag and dig 3 transects to the NW of previously gathered DGM data to better define the extent/type of metallic contamination.

Comments:

Items Recovered Today:

MEC/MPPEH: None

MD:100 lbs
CD: 0 lbs

Comment:

DGM Grids/Transects:

DGM Grids/Transects Reacquired:

Comments:

QC/QA: None performed

Other work performed:
Conducted demob activities (pack field equipment, etc), field teams demob/travel day 01 JUNE 2012.

Comments:

PREPARED BY:	**SIGNATURE:**
Walter F. Hess	

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/31/2012

Describe daily QC activities: No QC's done today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal Approval Date: 5/31/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	27 Sept 2012

WEATHER: 53-72 F, Winds 05 - 10 MPH, Partly cloudy (AM) to sunny.

WORK LOCATION: Code 300 Area

WORK COMPLETED:

- ☐ Surveyor activities.
- ☒ Mag and Dig activities (List grid or location).
- ☐ Intrusive Investigation of DGM anomaly targets (List grids).
- ☐ Reacquisition of DGM anomaly targets (List grids).
- ☒ Grid QC List (List completed grids).
- ☒ Grid QA (CENAB-List completed grids).
- ☐ Munitions Constituents Sampling.
- ☐ UXO Technician Escort activities.
- ☐ Equipment Transport (mob/demob to/from site-List).
- ☒ Equipment Maintenance.
- ☐ Equipment Issues (List below).
- ☐ Background Soil Sampling.

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out.	☒ Equipment check (instrument verification).
☒ Mag and Dig.	☐ Equipment Maintenance.
☒ Administrative operations.	☒ Team tailgate safety brief (conducted by team leader).

Team Personnel: (Arcadis)

UXO Tech: D. McFadden (T/L), B. Roberts (T1), J. Sweeny (T1), J. O'Neil (T2), H. Harman (T2)

Geo Tech:

Team location: Code 300 Grids: Code300-09, 11 and 13

Worked performed: Mag and Dig

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig Grids: Code300-09, 11 and 13 **Comments:**	
Items Recovered Today: **MEC/MPPEH**: 0 **MD**: 0 lbs **CD**: 7 lbs **Comment:**	
DGM Grids/Transects:	
DGM Grids/Transects Reacquired:	
Comments:	
QC/QA: Grids: Code300-09, 11 and 13 – all pass.	
Other work performed: **Comments**: All grids (Code300-01 through Code300-13) are complete and have passed QC and QA.	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

LAKES MRS

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	23 Jan 2012, 0700 - 1700

WEATHER/TEMPERATURE: Cold and rainy 45 high/32 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

EM61-MK2 transect data collection was performed in the following areas:

- Former Operational Area (1-99 Area)
- Lakes MRS (Lake Denmark 20mm firing point)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 24 Jan 2012: DGM Data collection in the Former Operational Area MRS (900 Area) and Lakes MRS (lake Denmark 20mm firing point.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 1/23/2012
Weather Conditions: 20-60% Precip, Wind E-SE 5-15 MPH	Temperature: 32-45F

Safety Discussion and Issues: Watching for wildlife, MEC anticipated in the FOA Area.

QC Discussion and Issues: Clearing for the Mag, 31 and 61.

Other Discussion and Issues: Slips Trips and Falls.

Acknowledgement

Name	Company	*Signature*
Brian Junck	Weston	
Brian Guthrie	Weston	
Paul Novak	Weston	not onsite
Bruce Carnal	Weston	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Brian Junck

Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	24 Jan 2012, 0700 - 1700

WEATHER/TEMPERATURE: Cold and rainy 44 high/41 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

EM61-MK2 transect data collection was performed in the following areas:

- Former Operational Area (900 Area)
- Lakes MRS (Lake Denmark 20mm firing point)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 25 Jan 2012: DGM Data collection in the Former Operational Area MRS (900 Area) and Lakes MRS.

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 1/24/2012
Weather Conditions: 10-0% Precip, Wind WSW-W 5-15 MPH, Humidity, 85-53%	Temperature: 41-44F

Safety Discussion and Issues: Wet conditions and Cold Stress, MEC anticipated in the 900 and Lake Denmark Areas.

QC Discussion and Issues: Grid set up for the 61.

Other Discussion and Issues: Slips Trips and Falls.

Acknowledgement

Name	Company	Signature
Brian Junck	Weston	
Brian Guthrie	Weston	
Paul Novak	Weston	
Bruce Carnal	Weston	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Brian Junck

Signature:

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	25 Jan 2012, 0700 - 1700

WEATHER/TEMPERATURE: Cold and clear 40 high/37 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

EM61-MK2 transect data collection was performed in the following areas:

- Former Operational Area (900 Area)
- Lakes MRS (3in Barbette firing point)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 26 Jan 2012: DGM Data collection in the Shell Burial Grounds MRS (3100 Area).

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 1/25/2012
Weather Conditions: 0% Precip, Wind W-NW 5-10 MPH, Humidity, 66-46%	Temperature: 37-40F

Safety Discussion and Issues: Wild life in areas, Ticks, MEC anticipated in the 900 and 500 Areas, MAG.

QC Discussion and Issues: Grid set up for the 61.

Other Discussion and Issues: Slips Trips and Falls.

Acknowledgement

Name	Company	Signature
Brian Junck	Weston	
Brian Guthrie	Weston	
Paul Novak	Weston	
Bruce Carnal	Weston	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Brian Junck

Signature:

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	28 Apr 2012

WEATHER: 32- 56 F Partly Cloudy; Winds 5-10 MPH

WORK LOCATION: 900, 1100 East, 1200, 1350, 1400 and East of 3300 Areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, J. Betz, C. Stanford
Geo Tech: K. Schlosser

Team location: 1100 Area (East), Lake Demark MRS
Worked performed: Mag and Dig along transects FOA-041 (660 ft) and LDM- 046 (1,475 ft), 047 (1,310 ft), 048 (1,175 ft), 049 (1,170 ft), 050 (720 ft), 052 (120 ft), 053 (670 ft), 054 (615 ft), 055 (575 ft) and 056 (400 ft).

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: East of 1350, 1400 and East of 3300 areas (1926 Explosion Radius MRS)
Worked performed: Intrusive investigation of DGM Grids 26OR-042, 043, 045, 079, 080, 091, 092, 095, 097, 099, and 101, and 26IR-013

Comments: Two MC soil samples were collected from the Green Pond MRS (300 Marsh Area) corresponding to locations where MD/MPPEH was recovered.

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 900 Area
Worked performed: Intrusive Investigation (Mag and Dig) along transects FOA-063 (1,800 ft), 064 (2,610 ft) and 065 (3,900 ft)

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig along transects FOA-041, 063, 064 and 065, and LDM- 046, 047, 048, 049, 050, 052, 053, 054, 055 and 056 (Total 17,200 ft) **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 60 lbs **CD**: 162 lbs	
DGM Grids/Transects: Intrusive Investigation of DGM Grids 26OR-042, 043, 045, 079, 080, 091, 092, 095, 097, 099, and 101, and 26IR-013	
DGM Grids/Transects Reacquired: None	
Comments	
QC/QA: QC Grids 26IR-010 and 26OR-042, 043 and 045 – no QC failure	
Other work performed: Munitions Constituents Sampling **Comments**: Samples were taken at two locations in the Green Pond Brook MRS (300 Marsh Area)	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey

Date: 4/28/2012

Describe daily QC activities: DGM Grids in 1500 and 3100 areas. As with all prior grids, QC'd at least 20%. All passed.

Grid QC: 26IR-010, Points 1,3,4,6,10,16,17,18,21,22,26,27,35,36,37,41,46,53,54,57,58,61,67,72,79.
26OR-042, Points 1,2,4,5,6
26OR-043, Points 1,2,3,4,5,10,11,12,13,14,15,16,17
26OR-045, Points 1,2,3,4,5,6,8,9,10,11,12,13,14,16,17

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Bruce A Carnal II

Approval Date: 4/28/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	29 Apr 2012

WEATHER: 35- 59 F Clear, Winds 5-10 MPH

WORK LOCATION: 1-99 Area, Lake Denmark Area, 1100 East, 1200, 1350, 1400 and East of 3300 Areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, J. Betz, C. Stanford
Geo Tech: K. Schlosser

Team location: Lake Denmark and 1100 Area
Worked performed: Mag and Dig along transects LDM 041 (815 ft), 042 (920 ft), 043 (1,520 ft), 044 (1,235 ft), 045 (1,135 ft), 050 (360 ft), 051 (680 ft) and 052 (280 ft), and FOA 018
Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: D. Hains, J. Lutz, N. Cox, G. Ingram, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: East of 1350 and East of 3300 areas
Worked performed: Intrusive investigation of DGM Grids 26OR-038, 039, 040, 098, 100, and Analog Grid 102

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: 900 Area
Worked performed: Intrusive Investigation of remaining targets along the DGM Transects in the 1-99 area
Comments:

DATA TRACKING:

Analog Survey Transects/Grids: Mag and Dig along transects FOA-018, and LDM- 041, 042, 043, 044, 045, 050, 051 and 052 (Total 6,945 ft); Mag and dig in analog Grid 102.

Comments:

Items Recovered Today:
MEC/MPPEH: 17 ea 81mm mortar; 1 ea 60mm mortar; 1 ea rifle grenade; 1 ea rifle grenade fuze
MD: 9 lbs
CD: 192 lbs

DGM Grids/Transects Reacquired:
None

Comments: MPPEH recovered was inspected, deemed safe to move, and stored in a magazine for future demolition. All items found were in Transect FOA-018.	
QC/QA: QC'd Grids 26IR-006, 013 and 016, and 26OR-078,079, 080, 091, 092, 095, 097, 098, 099, 100, 101 and 102 – No QC failures	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 4/29/2012

Describe daily QC activities: DGM and Mag and Dig Grids in 1000, 1300, 1400 areas. All girds QC'd at least 20%. All passed.

Grid QC: Mag and Dig Grids; 26IR-006, 26IR-016, 26OR-078, 26OR-102
DGM Grids; 26IR-013, Points1,2,3,4,5,61,12,13,14,15,16,17,18,19
26OR-079, Points 1,3,5,,8,9,10
26OR-080, Points 1,2,6,8
26OR-091, Points 2,4,7
26OR-092, Points 8,10,13,15,17,18,21,25,26,28,30,31,32,33,34,36
26OR-095, Points 3,4,6,8,10,11,15,17,24,25,27
26OR-097, Points 1,2,3,4,5,6,7,8,10,11,13,15,16,17,18,19,20
26OR-098, Points 1,3,4,6,12,13,14,15,16,27,34,35,36,38,41,42,45
26OR-099, Points 1,2,7,8
26OR-100, Points 4,10,12,13,14,17,22,24,26,27,29,30,32,34,36,37,39
26OR-101, Points 4,7,13,14,19,23,24,27,29,30,31,32,33,34,36,38,39,44,47,48,49,52,53,54,56

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce Carnal Approval Date: 4/29/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	09 May 2012

WEATHER: 58- 71 Overcast, Winds 5-10 MPH

WORK LOCATION: 1100 and 1200 areas and off post grids

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger, C. Stanford
Geo Tech: K. Schlosser

Team location: Dredge Pile and Waste Burial Area

Worked performed: Intrusive investigation of selected targets along DGM transects in the Dredge Pile and Waste Burial Areas.

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: M. Fiedler, W. Sturm, J. Hill, N. Cox, J. Brawner, R. Lolotai, T. Lolotai
Geo Tech:

Team location: Off Post Grids
Worked performed: Mag and Dig of Analog Grids 26OR-056, 057, 058, 059, 060, 061 and 062.

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: Lake Denmark

Worked performed:
Mag and Dig along Lake Denmark transects 001 (315 ft), 002 (220 ft), 003 (245 ft), 004 (840 ft), 005 (880 ft), 006 (885 ft), 007 (900 ft), 008 (960 ft), 009 (980 ft), 010 (1,020 ft), 011 (1,110 ft), 012 (1,110 ft) and 013 (1,000 ft).

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig of Analog Grids 26OR-056, 057, 058, 059, 060, 061 and 062. Mag and Dig Lake Denmark transects 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012 and 013 (Total 10,565 ft). **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 49 lbs **CD**: 83 lbs	
DGM Grids/Transects: Intrusive investigation of selected targets along DGM transects in the Dredge Pile and Waste Burial Areas.	
DGM Grids/Transects Reacquired: None	
Comments:	
QC/QA: Grids 26IR-001 and 002 and 26OR-022, 025, 027, 029, 031, 035, 041 and 044 – No grid failures	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/09/2012

Describe daily QC activities: Performed Grid QC in various areas. 20% of targets or grid QC'd at a minimum.

Grid QC: Mag and Dig Grid; 26IR-001, 26OR-022, 26OR-025, 26OR-027, 26OR-029, 26OR-041, 26OR-044
DGM Grids; 26IR-001, Points 4,5,21,26,30,31,33,40,42,44,48,50,51,52,55
26OR-031, Points 1,2,6,7
26OR-035, Points 6,7,8

Transect QC: N/A.

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal Approval Date: 5/09/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	18 May 2012

WEATHER: 45-69 F, Clear, Winds 5 - 10 MPH

WORK LOCATION: 1200 area

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☐ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Demo Activity

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: K. Schlosser

Team location: Lake Denmark

Worked performed: Conducted Mag and Dig operations along transects LDM 035 (1,800 ft), 036 (1,385 ft), 037 (1,855 ft), 038 (1,915 ft), 039 (1,850 ft) and 040 (1,530 ft).

Comments:

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs:

Geo Tech:

Team location:

Worked performed:

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: Gorge and Lake Denmark Area

Worked performed: Conducted Demo operations on:
14 ea 81mm practice mortars
3 ea 60mm practice mortars
1 ea 60mm HE mortar body (empty)
1 ea 40mm M406 HE
8 ea BLU 3B (inert loaded)
1 ea partial base fuze

Comments: Assisted Team 1 with Mag and Dig in Lake Denmark transects after completion of demo activities.

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig transects LDM 035, 036, 037, 038, 039 and 040 (Total 10,335 ft). **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 0 lbs **CD**: 0 lbs **Comment:**	
DGM Grids/Transects: N/A	
DGM Grids/Transects Reacquired: N/A	
Comments:	
QC/QA:	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey

Date: 5/18/2012

Describe daily QC activities: No QC's done today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 5/18/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	19 May 2012

WEATHER: 46-76 F, Clear, Winds 5 - 10 MPH

WORK LOCATION: 900 and Picatinny Lake areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: K. Schlosser

Team location: Picatinny Lake

Worked performed: Conducted Mag and Dig transects along the bank/border of Picatinny Lake.

Comments: Approximately 30% of the transect is complete.

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs:

Geo Tech:

Team location:

Worked performed:

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown

Geo Tech:

Team location: 900 Area

Worked performed: Intrusive investigation of selected targets along DGM transects in the 900 area.

Comments: 80 DGM anomaly targets remain along DGM transects in the 900 area.

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig transects along the banks/border of Picatinny Lake. **Comments:**	
Items Recovered Today: **MEC/MPPEH**: 1 ea 37mm (1.7 lb) smoke projectile. **MD**: 46 lbs **CD**: 70 lbs **Comment:** 37mm was inspected, deemed safe to move, and transported to the magazine for future disposal.	
DGM Grids/Transects: DGM targets in the 900 area	
DGM Grids/Transects Reacquired: N/A	
Comments:	
QC/QA: No grid QC performed	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/19/2012

Describe daily QC activities: Dredge Piles and Waste Burial Area DGM Transects QC'd at 20%+. Both Passed.

Grid QC: N/A

Transect QC: Dredge Piles, Targets 4,5,7,8,10,11,12,13,14,17,27,32,35,37,38,41,47,48,51,54,55,58,61,63,69,72,74,76,77
Waste Burial, Targets 0,3,11,15,24,26,28,31,33,35,37,38,41,46,50,51,55,61,62,65,70,72,73,77,84,88,99,101, 104,105,114,120,121,131

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal Approval Date: 5/19/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	20 May 2012

WEATHER: 54-75 F, Clear, Winds 5 - 10 MPH

WORK LOCATION: 900 and Picatinny Lake areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: K. Schlosser

Team location: Picatinny Lake

Worked performed: Conducted Mag and Dig transects along the bank/border of Picatinny Lake.

Comments: Approximately 65% of the transect is complete.

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs:

Geo Tech:

Team location:

Worked performed:

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operation	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown

Geo Tech:

Team location: 900 Area

Worked performed: Intrusive investigation of selected targets along DGM transects in the 900 area.

Comments: All of the 900 area DGM transects are complete.

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig transects along the banks/border of Picatinny Lake. **Comments:** Approximately 65% complete	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 5 lbs **CD**: 90 lbs **Comment:**	
DGM Grids/Transects: DGM targets in the 900 area.	
DGM Grids/Transects Reacquired: N/A	
Comments:	
QC/QA: Performed QC of DGM transects in Green Pond and 20/24 areas – all passed	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/20/2012

Describe daily QC activities: Green Pond Brook and 20-24 South Area DGM Transects QC'd at 20%+. Both Passed.

Grid QC: N/A

Transect QC: Green Pond Brook, Targets 1,2,3,7,8,9,10,11,25,26,27,28,29,30,31
20-24 South Area, Targets 0,6,7,11,16,18,21,41,36,49,56,57,58,60,66,70,74,75,86,88,91,94,97,103,116,118, 120,123,126,130,133,134,138,142,143,149,150,154,155,158,162,165,171,172,176,177,178,181,184,186,188,194

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Approval Date: 5/20/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	23 May 2012

WEATHER: 61 - 72 F, Overcast, Possible Thunderstorms, Winds 5 - 10 MPH

WORK LOCATION: 656 (IMW) and 1200 areas

WORK COMPLETED:

- ☒ DGM data collection
- ☒ Mag and Dig activities (List grid or location)
- ☐ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech:

Team location: Lake Denmark

Worked performed: Conducted Mag and Dig in transects LDM 32 (340 ft), 34 (345 ft), 35 (350 ft) and 36 (385 ft).

Comments: Lightning delays and poor GPS reception hindered operations. Lightning delays began at 1320, called teams in from field at 1440.

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs:

Geo Tech:

Team location:

Worked performed:

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Brown

Geo Tech:

Team location: IMW

Worked performed: Conducted Mag and Dig in Transects FOA-074 (1,685 ft) and 075 (1,080 ft), and IMW 002 (845 ft) and 003 (1,985 ft).

Comments: Lightning delays precluded completion of the IMW area today. Lightning delays began at 1320, called teams in from field at 1440.

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig transects along LDM 32, 34, 35 and 36, FOA-074 and 075, and IMW 002 and 003 (Total 7,015 ft) **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 0 lbs **CD**: 0 lbs **Comment:**	
DGM Grids/Transects:	
DGM Grids/Transects Reacquired: N/A	
Comments:	
QC/QA: None performed	
Other work performed: P.Novak and K.Schlosser collected EM-31 DGM data at the Inactive Munitions Waste Pit (IMWP) Area. Also, one munitions constituents (MC) sample taken. **Comments**: P.Novak was onsite on 22 May 2012 at the IMWP to take MC samples from the trenches generated by Shaw. Two MC samples were collected on 22 May 2012.	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/23/2012

Describe daily QC activities: No QC's done today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 5/23/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	24 May 2012

WEATHER: 59 - 72 F, Overcast , Possible showers and thunderstorms, Winds 5 - 10 MPH

WORK LOCATION: 656 (IWM) 900 and 1200 areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: K.Schlosser

Team location: Lake Denmark

Worked performed: Conducted Mag and Dig in transects LDM -014 (1,040 ft), 015 (1,000 ft), 016 (340 ft), 017 (380 ft), 020 (210 ft), 021 (740 ft) and 022 (785 ft).

Comments:

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs:

Geo Tech:

Team location:

Worked performed:

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Brown

Geo Tech:

Team location: IMW, 900 area

Worked performed: Conducted Mag and Dig in Transects IWM-004 (2,025 ft), and TOC (1,820 ft) and BOC (795 ft).

Intrusive investigation of DGM targets in Grids FOA-002 and 003.

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig transects along LDM-014, 015, 016, 017, 020, 021 and 022, IWM 001, and TOC and BOC (Total 9,135 ft). **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 3 lbs **CD**: 37 lbs **Comment:**	
DGM Grids/Transects: Intrusive investigation of DGM targets in Grids FOA-002 and 003.	
DGM Grids/Transects Reacquired: Reacquired DGM targets in Grids FOA-002 and 003.	
Comments:	
QC/QA: Performed in FOA North transects - no QC failures	
Other work performed: Four drums of Certified MDAS transferred to PTA with accompanying DD form 1348. One munitions constituents sample was collected at the Inactive Munitions Waste Pit Area by P.Novak. **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/24/2012

Describe daily QC activities: FOA North Transect

Grid QC: N/A

Transect QC: FOA North, Targets 64,65,66,67,68,69,70,121,122,123,124,125,126,582,583,584,585,586,587,801,802,803, 804,805,806,807,829,830,831,832,833,834,1128,1129,1130,1131,1132,1155,1156,1157,1158,1555,1556,

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal Approval Date: 5/24/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	25 May 2012

WEATHER: 60-73 F, Overcast , Possible showers and thunderstorms, Winds 5 - 10 MPH

WORK LOCATION: Gorge, 900 and 1200 areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: Ken Schlosser, P. Novak

Team location: Lake Denmark

Worked performed: Mag and Dig along transects LDM 042 (635 ft), 043 (1,145 ft) and 044 (325 ft); intrusive investigation of DGM targets in grid LDM-001; and push out to delineate the border of WBA contamination.

Comments:

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:
UXO Techs:
Geo Tech:
Team location:
Worked performed:
Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: Gorge, 900 area

Worked performed: Conducted Demo operations on 1 ea 37mm (1.7 lb) smoke/spotter projectile; and Intrusive investigation of DGM targets in Grid FOA-001.

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig along transects LDM 042, 043 and 044 (Total 2,105 ft). **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 0 lbs **CD:** 54 lbs **Comment:**	
DGM Grids/Transects: Intrusive investigation of DGM targets in grids LDM-001 and FOA-001.	
DGM Grids/Transects Reacquired: Reacquired DGM targets in grids LDM-001 and FOA-001.	
Comments:	
QC/QA: None performed.	
Other work performed: (3) Munitions Constituents samples shipped to laboratory for analysis. **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/25/2012

Describe daily QC activities: No QC done today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal

Approval Date: 5/25/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	26 May 2012

WEATHER: 62-82 F, Partly cloudy, Possible showers and thunderstorms, Winds 5 - 10 MPH

WORK LOCATION: Picatinny Lake

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☒ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS: Teams on lightning hold from 1435 – 1510.

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: Ken Schlosser

Team location: Picatinny Lake

Worked performed: Mag and Dig along the border of Picatinny Lake.

Comments: Picatinny Lake border transects complete.

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:
UXO Techs:
Geo Tech:
Team location:
Worked performed:
Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech: P. Novak

Team location: Picatinny Lake

Worked performed: Investigation of DGM areas near the Barbette Gun firing point.

Comments: Intrusive investigation of 13 selected areas was completed, and a push out completed to delineate the border of contamination.

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig along the border of Picatinny Lake. **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 12 lbs **CD**: 40 lbs **Comment:**	
DGM Grids/Transects: Intrusive investigation of selected DGM areas around the Barbette gun firing point.	
DGM Grids/Transects Reacquired: Reacquired DGM areas around the Barbette Gun firing point of Picatinny Lake.	
Comments:	
QC/QA: Performed QC checks of grids LDM 001, and FOA 001, 002 and 003 – no grid failures	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/26/2012

Describe daily QC activities: QC'd Lake Denmark and North FOA DGM Grids.

Grid QC: LDM-1, Targets 1,3,4,5,6,7,8,9,10,13,15,17,18,19,22,23,24,25,28,30,32,33,34,36,37,38,39,40,41,42,44,45,46,47, 48,49,52,53,54,55,57,58,59,60,62,63,64,65,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83
FOA-1, Targets 5,10,11,12,13,15,19,23,24,28,30,35,37,38,40,42
FOA-2, Targets 1,2,3,4,5,6,7
FOA-3, Targets 1,2,3,4,5,6,8,9,11,13,14,18,20,21

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal II

Approval Date: 5/26/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	27 May 2012

WEATHER: 63-76 F, Partly cloudy, Possible showers and thunderstorms, Winds 5 - 10 MPH

WORK LOCATION: Lake Denmark

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☐ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: Ken Schlosser

Team location: Lake Denmark

Worked performed: Mag and Dig along Lake Denmark transects LDM-031 (1,930 ft), 032 (1,510 ft) and 033 (1,910 ft).

Comments:

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:
UXO Techs:
Geo Tech:
Team location:
Worked performed:
Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: Lake Denmark

Worked performed: Mag and Dig along Lake Denmark transects LDM-023 (645 ft), 024 (835 ft), 025 (840 ft), 026 (635 ft), 027 (740 ft), 028 (665 ft), 029 (580 ft) and 030 (535 ft).

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig along Lake Denmark transects LDM-023, 024, 025, 026, 027, 028, 029, 030, 031, 32 and 033 (Total 10,825 ft). **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 0 lbs **CD**:15 lbs **Comment:**	
DGM Grids/Transects:	
DGM Grids/Transects Reacquired:	
Comments:	
QC/QA: None performed	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/27/2012

Describe daily QC activities: No QC's done today. Need to add that QC was done on LPW-1 on 5/26/12 in addition to previously reported grids.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Approval Date: 5/27/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	30 May 2012

WEATHER: 65-79 F, Partly cloudy, Possible showers and thunderstorms, Winds 5 - 10 MPH

WORK LOCATION: Lake Denmark, 3100 area (Shell Burial Grounds)

WORK COMPLETED:

- ☐ Surveyor activities.
- ☒ Mag and Dig activities (List grid or location)
- ☐ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☒ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: Ken Schlosser

Team location: Lake Denmark

Worked performed: Mag and Dig along Lake Denmark transects LDM-029 (1,365 ft), 030 (1,550 ft) and 034 (1,795 ft).

Comments:

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:
UXO Techs:
Geo Tech:
Team location:
Worked performed:
Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Leseiko, J. Brown
Geo Tech:

Team location: Lake Denmark, Shell Burial Grounds

Worked performed: Mag and Dig along Lake Denmark transects LDM-022 (250 ft), 023 (325 ft), 024 (335 ft), 025 (360 ft), 026 (365 ft), 027 (740 ft) and 028 (775 ft).

Shell Burial Grounds (West) – Mag and dig transect to the SW of previously gathered DGM data to better define extent/type of metallic contamination.

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig along Lake Denmark transects LDM-022, 023, 024, 025, 026, 027, 028, 029, 030 and 034 (Total 7,860 ft). **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 25 lbs **CD**: 10 lbs **Comment:**	
DGM Grids/Transects:	
DGM Grids/Transects Reacquired:	
Comments:	
QC/QA: OESS provided a 948 for QA of All Mag and Dig transects, 26-IR18, FOA-001 through FOA-007, LDM-001 and LPW-001 - no grid or transect failures	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/30/2012

Describe daily QC activities: No QC's done today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal

Approval Date: 5/30/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	31 May 2012

WEATHER: 60-76 F, Mostly sunny, Winds 5 - 10 MPH

WORK LOCATION: Lake Denmark, 1100 and 3100 area (Shell Burial Grounds)

WORK COMPLETED:

- ☐ Surveyor activities.
- ☒ Mag and Dig activities (List grid or location)
- ☐ Intrusive Investigation of DGM anomaly targets (List grids
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: Ken Schlosser

Team location: Lake Denmark, 1100 area

Worked performed: Mag and Dig along Lake Denmark shoreline (NE); and Mag and Dig along Transects FOA 020 (565 ft), 021 (780 ft) and 022 (535 ft).

Comments:

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:
UXO Techs:
Geo Tech:
Team location:
Worked performed:
Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Brown
Geo Tech:

Team location: Shell Burial Grounds

Worked performed: Conducted an analog survey to further define the extensively contaminated area surrounding/near grid 26IR-010.

Shell Burial Grounds (East) – Mag and dig 3 transects to the NW of previously gathered DGM data to better define the extent/type of metallic contamination.

Comments:

DATA TRACKING:

Analog Survey Transects/Grids:
Mag and Dig along Lake Denmark shoreline (NE).

Mag and Dig along Transects FOA 020, 021 and 022 (Total 1,880 ft).

Conducted analog survey to further define the extensively contaminated area surrounding/near grid 26IR-010.

Shell Burial Grounds (East) – Mag and dig 3 transects to the NW of previously gathered DGM data to better define the extent/type of metallic contamination.

Comments:

Items Recovered Today:

MEC/MPPEH: None

MD:100 lbs
CD: 0 lbs

Comment:

DGM Grids/Transects:

DGM Grids/Transects Reacquired:

Comments:

QC/QA: None performed

Other work performed:
Conducted demob activities (pack field equipment, etc), field teams demob/travel day 01 JUNE 2012.

Comments:

PREPARED BY:	**SIGNATURE:**
Walter F. Hess	

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/31/2012

Describe daily QC activities: No QC's done today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal Approval Date: 5/31/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	24 July 2012

WEATHER: 61 - 91 F, Sunny, Possible showers and thunderstorms, Winds 5 - 10 MPH

WORK LOCATION: Picatinny Lake

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities (List grid or location)
- ☐ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids).
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ Aquatic Surveying
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: None

Geo Tech: Aqua Survey: M. Padover, A. Froening, K.Sondag
Weston: Paul Novak

Team location: Picatinny Lake

Worked performed: Side-scan of Picatinny Lake

Comments:

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:
UXO Techs:
Geo Tech:
Team location:
Worked performed:
Comments:

Team 3 : Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs:
Geo Tech:

Team location:

Worked performed:

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: **Comments:**	
Items Recovered Today: **Comment:**	
DGM Grids/Transects: Side-scan/bathometry survey of Picatinny Lake	
DGM Grids/Transects Reacquired:	
Comments:	
QC/QA:	
Other work performed: **Comments**: Chris Yonet and David King from USACE onsite.	
PREPARED BY: Paul Novak	**SIGNATURE:**

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	25 July 2012

WEATHER: 64 - 84 F, Sunny, Clear, No wind

WORK LOCATION: Lake Denmark, Little Vietnam

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☐ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ Aquatic Surveying
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: None

Geo Tech: Aqua Survey: M. Padover, A. Froening, K.Sondag
Weston: Paul Novak

Team location: Lake Denmark

Worked performed: EM-61 DGM transects of Lake Denmark, 5,000 feet total

Comments:

Team 2

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☐ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel: Bruce Carnal, Erik Kidder
UXO Techs:
Geo Tech:
Team location: Little Vietnam Area
Worked performed: Two (2) mag and dig transects investigated (600 ft total), no items found.
Comments:

Team 3 : Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs:
Geo Tech:

Team location:

Worked performed:

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: **Comments:**	
Items Recovered Today: **Comment:**	
DGM Grids/Transects: Aquatic EM-61 DGM of transects in Lake Denmark	
DGM Grids/Transects Reacquired:	
Comments:	
QC/QA:	
Other work performed: **Comments**: Chris Yonet and David King from USACE onsite, and Laura Pastor from Weston On-site.	
PREPARED BY: Paul Novak	**SIGNATURE:**

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	26 July 2012

WEATHER: 70 - 91 F, Partly cloudy, slight wind, occasional thunderstorms.

WORK LOCATION: Lake Denmark

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities (List grid or location)
- ☐ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ Aquatic Surveying
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: None

Geo Tech: Aqua Survey: M. Padover, A. Froening, K.Sondag
Weston: Paul Novak

Team location: Lake Denmark

Worked performed: EM-61 DGM transects of Lake Denmark. Lake Denmark completed.

Comments:

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:
UXO Techs:
Geo Tech:
Team location:
Worked performed:
Comments:

Team 3 : Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs:
Geo Tech:

Team location:

Worked performed:

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: **Comments:**	
Items Recovered Today: **Comment:**	
DGM Grids/Transects: Aquatic EM-61 DGM of transects in Lake Denmark	
DGM Grids/Transects Reacquired:	
Comments:	
QC/QA:	
Other work performed: **Comments**: David King from USACE onsite. Paul Landry from Weston onsite to oversee well abandonment.	
PREPARED BY: Paul Novak	**SIGNATURE:**

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	27 July 2012

WEATHER: 72 - 88 F, P. Cloudy, slight wind, possible thunderstorms.

WORK LOCATION: Picatinny Lake

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities (List grid or location)
- ☐ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ Aquatic Surveying
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: None

Geo Tech: Aqua Survey: M. Padover, R. Fristrol, L. Frank.
Weston: Paul Novak

Team location: Lake Denmark

Worked performed: EM-61 DGM transects of Picatinny Lake. Picatinny Lake completed.

Comments:

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:
UXO Techs:
Geo Tech:
Team location:
Worked performed:
Comments:

Team 3 : Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs:
Geo Tech:

Team location:

Worked performed:

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: **Comments:**	
Items Recovered Today: **Comment:**	
DGM Grids/Transects: Aquatic EM-61 DGM of transects in Picatinny Lake. All lakes transects completed.	
DGM Grids/Transects Reacquired:	
Comments:	
QC/QA:	
Other work performed: **Comments**: David King from USACE onsite.	
PREPARED BY: Paul Novak	**SIGNATURE:**

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.222	9 Nov 2012

WEATHER: 34 - 50F, Winds 10 - 20 MPH, Overcast

WORK LOCATION: Site Trailer, Lakes

WORK COMPLETED:

- ☐ Surveyor activities.
- ☐ Mag and Dig activities (List grid or location).
- ☐ Intrusive Investigation of DGM anomaly targets (List grids).
- ☐ Reacquisition of DGM anomaly targets (List grids).
- ☐ Grid QC List (List completed grids).
- ☐ Grid QA (CENAB-List completed grids).
- ☐ Munitions Constituents Sampling.
- ☐ UXO Technician Escort activities.
- ☒ Equipment Transport (mob/demob to/from site-List).
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below).
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance.
☒ Administrative operations.	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel: (EOTI) W. Lewallen (PM)

UXO Tech: N. Figeac (Dive Sup/T3), T. Dailey, K. Kerns, H. Craig

Geo Tech:

Team location: Site Trailer

Worked performed: Stage and check equipment, attend PTA Safety Brief and Project Initial Safety Briefs.

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: **Comments:**	
Items Recovered Today: **MEC/MPPEH**: 0 **MD**: 0 lbs **CD**: 0 lbs **Comment:**	
DGM Grids/Transects:	
DGM Grids/Transects Reacquired:	
Comments:	
QC/QA:	
Other work performed: Received and stored demolition explosives in magazines, Weston site management met with EOTI personnel, reviewed certifications, interfaced with USACE OESS (C. Yonat), conducted initial site safety briefs and plan reviews. Made preparations to begin dive ops tomorrow. **Comments**: No dive operations today.	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.222	10 Nov 2012

WEATHER: 34 - 50F, Winds 05 - 10 MPH, Mostly cloudy/Overcast.

WORK LOCATION: Site Trailer, Lake Picatinny

WORK COMPLETED:

- ☐ Surveyor activities.
- ☐ Mag and Dig activities (List grid or location).
- ☒ Intrusive Investigation of DGM anomaly targets (List grids).
- ☒ Reacquisition of DGM anomaly targets (List grids).
- ☐ Grid QC List (List completed grids).
- ☐ Grid QA (CENAB-List completed grids).
- ☐ Munitions Constituents Sampling.
- ☐ UXO Technician Escort activities.
- ☐ Equipment Transport (mob/demob to/from site-List).
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below).
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance.
☒ Administrative operations.	☒ Team tailgate safety brief (conducted by team leader)
☒ Dive operations.	☒ Dive Safety Brief (conducted by Dive Supervisor)

Team Personnel: (EOTI) W. Lewallen (PM)

UXO Tech: N. Figeac (Dive Sup/T3), T. Dailey, K. Kerns, H. Craig

Geo Tech:

Team location: Lake Picatinny

Worked performed: Stage and check equipment, Launch dive boat, reacquire and conduct dive ops

to investigate anomalies. Fifteen (15) anomalies were reacquired and ten were investigated. One anomaly (LP23) was not investigated as the location was too close to the dam/spillway to conduct safe diving operations.

Comments: The following anomalies were investigated: LP 02, 03, 05, 06, 07, 20, 21, 22, 24 and 25.

Anomaly LP-07 is tentatively identified as a supplemental charge for a 155MM projectile (MPPEH). Item was inspected by the SUXOS, UXOSO/QC and USACE OESS, deemed safe to move and stored in the magazine for future disposal.

Anomaly LP-21 is an expended smoke canister (MD).

No other anomalies investigated were OE related.

DATA TRACKING:

Analog Survey Transects/Grids:

Comments:

Items Recovered Today:

MEC/MPPEH: 1 Supplemental charge for 155MM Projectile

MD: 0.3 lbs

CD: 5 lbs

Comment: MPPEH consists of one suspected supplemental charge for a 155MM projectile. Item inspected and stored in the magazine for disposal.

DGM Grids/Transects:

DGM Anomalies Reacquired: LP 02, 03, 04, 05, 06, 07, 08, 09, 10, 20, 21, 22, 23, 24 and 25.

Comments: Anomaly LP 23 was not investigated due to location (too close to spillway/dam for safe dive operations)

QC/QA:

Other work performed: A pre-dive safety inspection was conducted by L. A. Martin (CENAB, DSA). The results of the inspection were satisfactory with no discrepancies noted. Inspection checklist attached.

Comments:

PREPARED BY:	
Walter F. Hess	**SIGNATURE:**

Continued	Yes	No
B Surface supplied air diving		
Has all equipment been laid out for dive? (30.A.11)		✓
Have all helmets, masks, seals been inspected? (30.E.07)		✓
Have all lights, special tools been tested? (30.E.11)		✓
Does the reserve breathing air supply have in-line capable of supporting the dive operation? (30.C.05) (C)		✓
Has voice communication systems been checked? (30.E.05) (h)		✓
Standby diver dressed out and readily available. (30.C.05) (d)		✓
Bail-out bottles fully charged and worn. (30.C.05) (e)		✓
Is safety harness with positive buckling device and an attachment point for the umbilical and a lifting point worn? (30.E.08) (b)		✓
Is each diver continuously tended? (30.C.05) (a)		✓
Recompression Chamber on-site if required. (30.C.02)		✓
Is an approved first-aid kit at each dive site? (30.E.09) (a)		✓
Is portable oxygen supply available at dive site? (30.E.09) (b)		✓
Is litter or backboard with attached flotation on site? (30.E.09) (c)		✓
C Breathing air supply hoses		
Have breathing hoses been tested to 1.5 times the working pressure? (30.E.06)(f)	✓	
Is the umbilical marked at 10ft. increments to 100ft. from the diver end? (30.E.06)(c)		✓
Is a safety line of 3/8 in. synthetic material a part of each umbilical? (30.E.06)(e)	✓	

4 Scuba Diving Operations

CHECK WITH DIVING COORDINATOR BEFORE ANY SCUBA DIVING OPERATIONS

Notes: 385-1-1 PARA 30.C, 02
Bail out Bottles ✓
BCD ✓
Regulator Pressure gauge ✓
weight belt ✓
Depth gauge ✓
Cylinders check/inspe ✓
Time Keeping Device ✓
safety Handness ✓

Nelson Figueroa DIVE SUP.
Nelson Figueroa

Lowell A. Martin CENAB DSA
Lowell A. Martin Jr.

SAFETY INSPECTION CHECK LIST FOR DIVING OPERATIONS

U.S. ARMY CORPS OF ENGINEERS

Contract No: W912DR-09-D-0006	Contractor: WESTON / EWTI
Inspected By: Lowell Martin CEM413	Date of Dive: 10 NOV 2012

NOTE: Corps of Engineers General Safety Requirements (EM 385-1-1) references as shown in parentheses.	Yes	No
1 PERSONNEL CHECK		
Check with District Diving Coordinator to verify that all medical/first-aid/CPR paper work is in the Safety Office.	✓	
Current medical examination for each diver - **must be within the last 12 months** (30.A.06)	✓	
Diving or tending certification. (30.A.06)	✓	
Current First Aid certification. (renewed every 3 yrs.)	✓	
Current CPR certification. (renewed annually - 30.A.08)	✓	
2 ADMINISTRATIVE CHECK		
Contractor Safe Practice Manual on site. (30.A.11)	✓	
Has dive plan been developed and approved? (30.A.13)	✓	
Has pre-dive briefing been performed with dive team? (30.A.14)	✓	
If applicable, are decompression tables available?	✓	
Have all valves, switches, controls, and equipment components been property locked out and/or tagged out? (30.A.13 (9)		✓
Has dive log been filled out for each dive? (30.A.17)	✓	
3 EQUIPMENT CHECK		
A Air compressor (30.E)		
Air compressor tagged and tested every six months for:	✓	
Carbon Monoxide <10 PPM (30.E.05 (1)	✓	
Carbon Dioxide <1,000 PPM (30.E.05 (2)	✓	
Oil mist <5 milligrams per cubic meter (30.E.05 (3)	✓	
Air shall not contain noxious or pronounced odor (30.E.05.(4)	✓	
Is air intake located away from exhaust? (30.E.04)		✓
Does volume tank have check valve on the inlet side, a pressure gauge, a relief valve and a drain valve? (30.E.02)		✓
Does compressor have adequate capacity to deliver 4.5cfm actual to each diver? (30.E.03)		✓

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.222	11 Nov 2012

WEATHER: 40 - 58F, Winds 05 - 10 MPH, Morning clouds to mostly sunny.

WORK LOCATION: Lake Picatinny

WORK COMPLETED:

- ☐ Surveyor activities.
- ☐ Mag and Dig activities (List grid or location).
- ☒ Intrusive Investigation of DGM anomaly targets (List grids).
- ☒ Reacquisition of DGM anomaly targets (List grids).
- ☐ Grid QC List (List completed grids).
- ☐ Grid QA (CENAB-List completed grids).
- ☐ Munitions Constituents Sampling.
- ☐ UXO Technician Escort activities.
- ☐ Equipment Transport (mob/demob to/from site-List).
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below).
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance.
☒ Administrative operations.	☒ Team tailgate safety brief (conducted by team leader)
☒ Dive operations.	☒ Dive Safety Brief (conducted by Dive Supervisor)

Team Personnel: (EOTI) W. Lewallen (PM)

UXO Tech: N. Figeac (Dive Sup/T3), T. Dailey, K. Kerns, H. Craig

Geo Tech:

Team location: Lake Picatinny

Worked performed: Check and load equipment, reacquire and conduct dive ops to investigate

anomalies.

Comments: The following anomalies were required: LP-01, 11, 12, 13, 14, 15, 16, 17, 18 and 19.

The following were intrusively investigated: LP-01, 04, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18 and 19. An additional anomaly was selected and investigated to replace the original LP-23 (which had been deemed unsafe to dive on due to location).

DATA TRACKING:	
Analog Survey Transects/Grids: **Comments:**	
Items Recovered Today: **MEC/MPPEH**: 0 **MD**: 0.5 lbs **CD**: 20 lbs **Comment:** MD was a base from a 3" Flare.	
DGM Grids/Transects:	
DGM Anomalies Reacquired: LP-01, 11, 12, 13, 14, 15, 16, 17, 18 and 19.	
Comments:	
QC/QA: None	
Other work performed: **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.222	12 Nov 2012

WEATHER: 40 - 58F, Winds 05 - 10 MPH, Morning clouds to mostly sunny.

WORK LOCATION: Lake Denmark

WORK COMPLETED:

- ☐ Surveyor activities.
- ☐ Mag and Dig activities (List grid or location).
- ☒ Intrusive Investigation of DGM anomaly targets (List grids).
- ☒ Reacquisition of DGM anomaly targets (List grids).
- ☐ Grid QC List (List completed grids).
- ☐ Grid QA (CENAB-List completed grids).
- ☐ Munitions Constituents Sampling.
- ☐ UXO Technician Escort activities.
- ☐ Equipment Transport (mob/demob to/from site-List).
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below).
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☐ Mag and Dig	☒ Equipment Maintenance.
☒ Administrative operations.	☒ Team tailgate safety brief (conducted by team leader)
☒ Dive operations.	☒ Dive Safety Brief (conducted by Dive Supervisor)

Team Personnel: (EOTI) W. Lewallen (PM)

UXO Tech: N. Figeac (Dive Sup/T3), T. Dailey, K. Kerns, H. Craig

Geo Tech:

Team location: Lake Denmark

Worked performed: Check and load equipment, reacquire and conduct dive ops to investigate

anomalies.

Comments: The following anomalies were reacquired: LD-01, 02, 03, 04, 05, 06, 07, 08, 09 and 10.

The following were intrusively investigated: LD-01, 02, 04, 05, 06, 07, 08 and 09.

Anomaly LD-10 was inaccessible for safe diving and an alternate location (40 58 377N 074 31 051E) selected and investigated. Attempts to investigate LD-03 were unsuccessful due to environmental (plant growth and bottom) conditions.

Anomaly LD-01 was found to be a 60MM Mortar (M49 A1 with expended M52 fuze). Item was inspected, deemed safe to move and transported to the disposal site.

DATA TRACKING:	
Analog Survey Transects/Grids: **Comments:**	
Items Recovered Today: **MEC/MPPEH**: 1ea. 60MM Mortar M28 A1 w/ expended M52 fuze **MD**: 3 lbs **CD**: 0 lbs **Comment:** MD was remains of 60MM Mortar (post demolition).	
DGM Grids/Transects:	
DGM Anomalies Reacquired: LD-01, 02, 03, 04, 05, 06, 07, 08, 09 and 10	
Comments:	
QC/QA: None	
Other work performed: Demolition/disposal operations were conducted for the 60MM mortar found today and the supplemental charge (for 155MM Projectile) found yesterday. **Comments**: Demolition procedures were successful, the supplemental charge was HE, and the mortar had been inert filled.	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

LAKE DENMARK – OFF-POST MRS

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	Sept 18 2013

WEATHER: 70's, Sunny, Calm Wind.

WORK LOCATION: Lake Denmark OffPost

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Flag activities (List grid or location)
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

None

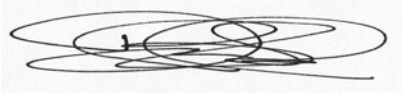
Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Flag	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: E. Kidder, M. Dewey
Geo Tech: P. Novak

Team location: Lake Denmark Off-Post
Worked performed: Mag and Flag Transects.
Comments: None

DATA TRACKING:	
Analog Survey Transects: Lake Denmark Off-Post: 16,100 ft	
Items Recovered Today: **MEC/MPPEH**: None **MD**: None **CD**: None	
DGM Grids: None	
DGM Grids Reacquired: None	
Comments: None	
QA/QC: None	
Other work performed: **Comments:**	
PREPARED BY: Paul Novak	**SIGNATURE:** 

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	Sept 19 2013

WEATHER: 70's, Sunny, Light Wind.

WORK LOCATION: Lake Denmark OffPost

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Flag activities (List grid or location)
- ☐ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

None

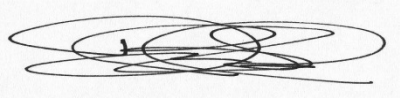
Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Flag	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: E. Kidder, M. Dewey
Geo Tech: P. Novak

Team location: Lake Denmark Off-Post
Worked performed: Mag and Flag Transects.
Comments: None

DATA TRACKING:	
Analog Survey Transects: Lake Denmark Off-Post: 8,130 ft	
Items Recovered Today: **MEC/MPPEH**: None **MD**: None **CD**: None	
DGM Grids: None	
DGM Grids Reacquired: None	
Comments: Mag and Flag completed for Lake Denmark Off-Post. No MEC/MD encountered.	
QA/QC: None	
Other work performed: **Comments:**	
PREPARED BY: Paul Novak	**SIGNATURE:** 

INACTIVE MUNITIONS WASTE PIT MRS

Daily Site Progress Report

Picatinny Arsenal RI

CONTRACT NO. / D.O. NO.:	WORK ORDER NO.:	DATE / TIME ON AND OFF SITE
W912DR-09-D-0006	03886.551.002	30 Jan 2012, 0700 - 1700

WEATHER/TEMPERATURE: Cold and clear 37 high/29 Low °F

WORK LOCATION: Picatinny, NJ

WORK COMPLETED:

- ☐ Surveyor activities
- ☐ Mag and Dig activities
- ☒ DGM activities (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☐ Munitions Constituents Sampling
- ☒ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☐ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☒ Brush Cutting Activities

Comments:

MATERIALS DELIVERED (Amount, Condition, and Purpose):

None

PROBLEMS/RESOLUTIONS:

None

DATA TRACKING:

858 Magnetometer transect data collection was performed in the following areas:

- Shell Burial Grounds (3100 Area)

EM31 transect data collection was performed in the following areas:

- Inactive Munitions Waste Pit (600 Area)

Brush cutting was performed in the following areas:

- Former Operational Area (1100 Area)

Comments:

FURTHER DISCUSSION (List Topic and Comment):

Planned activities for 31 Jan 2012: 858 Magnetometer Data collection in the Shell Burial Grounds MRS (3100 Area).

PREPARED BY:	SIGNATURE:
Brian Junck – Site Geophysicist	

DAILY SAFETY AND QC TAILGATE MEETING

Project: 03886.551.002, Contract No.:W912DR-09-D-0006

Site Name: MMRP/RI Picatinny Arsenal, New Jersey	Date/ Time: 1/30/2012
Weather Conditions: 0-10% Precip, Wind-WNW-W 10-15 MPH, Humidity, 56-34%	Temperature: 29-37F

Safety Discussion and Issues: MEC anticipated in the Shell Burial Grounds, FOA Areas again.

QC Discussion and Issues: Lane set up for the MAG, EM61 again.

Other Discussion and Issues: Slips Trips and Falls, Dead Fall, Vines and Brambles.

Acknowledgement

Name	Company	Signature
Brian Junck	Weston	
Brian Guthrie	Weston	
Paul Novak	Weston	
Bruce Carnal	Weston	

I certify that the personnel listed on this roster received the briefing described above. Site personnel not attending this meeting will be briefed before beginning their assigned duties.

Meeting Organizer: Brian Junck

Signature:

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	23 May 2012

WEATHER: 61 - 72 F, Overcast, Possible Thunderstorms, Winds 5 - 10 MPH

WORK LOCATION: 656 (IMW) and 1200 areas

WORK COMPLETED:

- ☒ DGM data collection
- ☒ Mag and Dig activities (List grid or location)
- ☐ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech:

Team location: Lake Denmark

Worked performed: Conducted Mag and Dig in transects LDM 32 (340 ft), 34 (345 ft), 35 (350 ft) and 36 (385 ft).

Comments: Lightning delays and poor GPS reception hindered operations. Lightning delays began at 1320, called teams in from field at 1440.

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs:

Geo Tech:

Team location:

Worked performed:

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Brown

Geo Tech:

Team location: IMW

Worked performed: Conducted Mag and Dig in Transects FOA-074 (1,685 ft) and 075 (1,080 ft), and IMW 002 (845 ft) and 003 (1,985 ft).

Comments: Lightning delays precluded completion of the IMW area today. Lightning delays began at 1320, called teams in from field at 1440.

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig transects along LDM 32, 34, 35 and 36, FOA-074 and 075, and IMW 002 and 003 (Total 7,015 ft) **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 0 lbs **CD**: 0 lbs **Comment:**	
DGM Grids/Transects:	
DGM Grids/Transects Reacquired: N/A	
Comments:	
QC/QA: None performed	
Other work performed: P.Novak and K.Schlosser collected EM-31 DGM data at the Inactive Munitions Waste Pit (IMWP) Area. Also, one munitions constituents (MC) sample taken. **Comments**: P.Novak was onsite on 22 May 2012 at the IMWP to take MC samples from the trenches generated by Shaw. Two MC samples were collected on 22 May 2012.	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/23/2012

Describe daily QC activities: No QC's done today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 5/23/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	24 May 2012

WEATHER: 59 - 72 F, Overcast , Possible showers and thunderstorms, Winds 5 - 10 MPH

WORK LOCATION: 656 (IWM) 900 and 1200 areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: K.Schlosser

Team location: Lake Denmark

Worked performed: Conducted Mag and Dig in transects LDM -014 (1,040 ft), 015 (1,000 ft), 016 (340 ft), 017 (380 ft), 020 (210 ft), 021 (740 ft) and 022 (785 ft).

Comments:

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs:

Geo Tech:

Team location:

Worked performed:

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Brown

Geo Tech:

Team location: IMW, 900 area

Worked performed: Conducted Mag and Dig in Transects IWM-004 (2,025 ft), and TOC (1,820 ft) and BOC (795 ft).

Intrusive investigation of DGM targets in Grids FOA-002 and 003.

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig transects along LDM-014, 015, 016, 017, 020, 021 and 022, IWM 001, and TOC and BOC (Total 9,135 ft). **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 3 lbs **CD**: 37 lbs **Comment:**	
DGM Grids/Transects: Intrusive investigation of DGM targets in Grids FOA-002 and 003.	
DGM Grids/Transects Reacquired: Reacquired DGM targets in Grids FOA-002 and 003.	
Comments:	
QC/QA: Performed in FOA North transects - no QC failures	
Other work performed: Four drums of Certified MDAS transferred to PTA with accompanying DD form 1348. One munitions constituents sample was collected at the Inactive Munitions Waste Pit Area by P.Novak. **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/24/2012

Describe daily QC activities: FOA North Transect

Grid QC: N/A

Transect QC: FOA North, Targets 64,65,66,67,68,69,70,121,122,123,124,125,126,582,583,584,585,586,587,801,802,803, 804,805,806,807,829,830,831,832,833,834,1128,1129,1130,1131,1132,1155,1156,1157,1158,1555,1556,

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal Approval Date: 5/24/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	26 Sept 2012

WEATHER: 53-72 F, Overcast, Possible Showers, Winds 10 - 15 MPH

WORK LOCATION: Code 300 Area

WORK COMPLETED:

- ☐ Surveyor activities.
- ☒ Mag and Dig activities (List grid or location).
- ☐ Intrusive Investigation of DGM anomaly targets (List grids).
- ☐ Reacquisition of DGM anomaly targets (List grids).
- ☒ Grid QC List (List completed grids).
- ☐ Grid QA (CENAB-List completed grids).
- ☐ Munitions Constituents Sampling.
- ☐ UXO Technician Escort activities.
- ☐ Equipment Transport (mob/demob to/from site-List).
- ☒ Equipment Maintenance.
- ☐ Equipment Issues (List below).
- ☐ Background Soil Sampling.

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☐ Equipment Maintenance.
☒ Administrative operations.	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel: (Arcadis)

UXO Tech: D. McFadden (T/L), B. Roberts (T1), J. Sweeny (T1), J. O'Neil (T2), H. Harman (T2)

Geo Tech: S. Stacy

Team location: Grids Code300-03, 05, 07 and 12

Worked performed: Mag and Dig

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig Grids: Code300-03, 05, 07 and 12 **Comments:**	
Items Recovered Today: **MEC/MPPEH**: 0 **MD**: 1 lb **CD**: 109 lb **Comment:**	
DGM Grids/Transects:	
DGM Grids/Transects Reacquired:	
Comments:	
QC/QA: Code 300 grids: Code300-03, 05, 07 and 12.	
Other work performed: GPS/install grid corners, this task is complete. **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

INACTIVE MUNITIONS WASTE PIT – OFF-POST MRS

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	23 May 2012

WEATHER: 61 - 72 F, Overcast, Possible Thunderstorms, Winds 5 - 10 MPH

WORK LOCATION: 656 (IMW) and 1200 areas

WORK COMPLETED:

- ☒ DGM data collection
- ☒ Mag and Dig activities (List grid or location)
- ☐ Intrusive Investigation of DGM anomaly targets (List grids)
- ☐ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech:

Team location: Lake Denmark

Worked performed: Conducted Mag and Dig in transects LDM 32 (340 ft), 34 (345 ft), 35 (350 ft) and 36 (385 ft).

Comments: Lightning delays and poor GPS reception hindered operations. Lightning delays began at 1320, called teams in from field at 1440.

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs:

Geo Tech:

Team location:

Worked performed:

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Brown

Geo Tech:

Team location: IMW

Worked performed: Conducted Mag and Dig in Transects FOA-074 (1,685 ft) and 075 (1,080 ft), and IMW 002 (845 ft) and 003 (1,985 ft).

Comments: Lightning delays precluded completion of the IMW area today. Lightning delays began at 1320, called teams in from field at 1440.

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig transects along LDM 32, 34, 35 and 36, FOA-074 and 075, and IMW 002 and 003 (Total 7,015 ft) **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 0 lbs **CD**: 0 lbs **Comment:**	
DGM Grids/Transects:	
DGM Grids/Transects Reacquired: N/A	
Comments:	
QC/QA: None performed	
Other work performed: P.Novak and K.Schlosser collected EM-31 DGM data at the Inactive Munitions Waste Pit (IMWP) Area. Also, one munitions constituents (MC) sample taken. **Comments**: P.Novak was onsite on 22 May 2012 at the IMWP to take MC samples from the trenches generated by Shaw. Two MC samples were collected on 22 May 2012.	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/23/2012

Describe daily QC activities: No QC's done today.

Grid QC: N/A

Transect QC: N/A

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal

Approval Date: 5/23/2012

Daily Site Report

Picatinny Arsenal Remedial Investigation

CONTRACT NO. / D.O. NO.:	PROJECT NUMBER:	DATE:
W912DR-09-D-0006/0002	03886.551.002	24 May 2012

WEATHER: 59 - 72 F, Overcast , Possible showers and thunderstorms, Winds 5 - 10 MPH

WORK LOCATION: 656 (IWM) 900 and 1200 areas

WORK COMPLETED:

- ☐ Surveyor activities
- ☒ Mag and Dig activities (List grid or location)
- ☒ Intrusive Investigation of DGM anomaly targets (List grids)
- ☒ Reacquisition of DGM anomaly targets (List grids)
- ☐ Grid QC List (List completed grids)
- ☐ Grid QA (CENAB-List completed grids)
- ☒ Munitions Constituents Sampling
- ☐ UXO Technician Escort activities
- ☐ Equipment Transport (mob/demob to/from site-List)
- ☒ Equipment Maintenance
- ☐ Equipment Issues (List below)
- ☐ Background Soil Sampling

MATERIALS DELIVERED (Amount, Condition, and Purpose):

PROBLEMS/RESOLUTIONS:

Team 1

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Tech: R. Shellenbarger , C. Stanford
Geo Tech: K.Schlosser

Team location: Lake Denmark

Worked performed: Conducted Mag and Dig in transects LDM -014 (1,040 ft), 015 (1,000 ft), 016 (340 ft), 017 (380 ft), 020 (210 ft), 021 (740 ft) and 022 (785 ft).

Comments:

Team 2 Inactive

☐ Team check out	☐ Equipment check (instrument verification)
☐ Mag and Dig	☐ Equipment Maintenance
☐ Administrative operations	☐ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs:

Geo Tech:

Team location:

Worked performed:

Comments:

Team 3

☒ Team check out	☒ Equipment check (instrument verification)
☒ Mag and Dig	☒ Equipment Maintenance
☒ Administrative operations	☒ Team tailgate safety brief (conducted by team leader)

Team Personnel:

UXO Techs: E. Kidder, J. Brown

Geo Tech:

Team location: IMW, 900 area

Worked performed: Conducted Mag and Dig in Transects IWM-004 (2,025 ft), and TOC (1,820 ft) and BOC (795 ft).

Intrusive investigation of DGM targets in Grids FOA-002 and 003.

Comments:

DATA TRACKING:	
Analog Survey Transects/Grids: Mag and Dig transects along LDM-014, 015, 016, 017, 020, 021 and 022, IWM 001, and TOC and BOC (Total 9,135 ft). **Comments:**	
Items Recovered Today: **MEC/MPPEH**: None **MD**: 3 lbs **CD**: 37 lbs **Comment:**	
DGM Grids/Transects: Intrusive investigation of DGM targets in Grids FOA-002 and 003.	
DGM Grids/Transects Reacquired: Reacquired DGM targets in Grids FOA-002 and 003.	
Comments:	
QC/QA: Performed in FOA North transects - no QC failures	
Other work performed: Four drums of Certified MDAS transferred to PTA with accompanying DD form 1348. One munitions constituents sample was collected at the Inactive Munitions Waste Pit Area by P.Novak. **Comments**:	
PREPARED BY: Walter F. Hess	**SIGNATURE:**

WESTON SOLUTIONS
Restoring Resource Efficiency

DAILY QC REPORT

Project: 03886.551.002, Contract No. W912DR-09-0006

Site Location: MMRP/RI Picatinny Arsenal, New Jersey	Date: 5/24/2012

Describe daily QC activities: FOA North Transect

Grid QC: N/A

Transect QC: FOA North, Targets 64,65,66,67,68,69,70,121,122,123,124,125,126,582,583,584,585,586,587,801,802,803, 804,805,806,807,829,830,831,832,833,834,1128,1129,1130,1131,1132,1155,1156,1157,1158,1555,1556,

Definable Feature of Work (identify control phase: preparatory, initial, follow-up, final)	**Inspection Performed**	**Result/Recommendation** (document deficiency, nonconformance, lesson learned)

Attach additional pages as necessary.

Approved By: Bruce A. Carnal Bruce A Carnal Approval Date: 5/24/2012

Daily Geophysics Checklist

Date: 12/3/11
Team: NOAA

Instrument Configuration:
- EM61-MK2 Single Unit: ☒
- EM61-MK2 Underwater: ☐
- EM-31 MK2: ☐

EM61-MK2:

Instrument Function Checks - AM

Filename 1203 AM

- Instrument Warm-up ☑
- Null Instrument ☑
- Personnel Test ☑

	Line #	Response
Static Background	0	0.5 mV
Static Spike	1	200 mV
Cable Connection	2	-1 mV

Instrument Verification Strip - AM

Filename 1203IVS AM

IVS Transect	Line #
Seeded	
Offset	
Background	

Instrument Function Checks - PM

Filename 1203 PM

- Instrument Warm-up ☑
- Null Instrument ☑
- Personnel Test ☑

	Line #	Response
Static Background	0	0.5
Static Spike	1	205
Cable Connection	2	

Instrument Verification Strip - PM

Filename 1203 IVS PM

IVS Transect	Line #
Seeded	
Offset	
Background	

EM31-MK2:

- Instrument Warm-up ☐
- Instrument Calibration ☐

Instrument Function Checks - AM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Instrument Function Checks - PM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Notes:

Daily Geophysics Checklist

Date: 12/9/2011
Team: NOVAK

Instrument Configuration:
- EM61-MK2 Single Unit: ☑
- EM61-MK2 Underwater: ☐
- EM-31 MK2: ☐

EM61-MK2:

Instrument Function Checks - AM

Filename 120911am1

- Instrument Warm-up ☑
- Null Instrument ☑
- Personnel Test ☑

	Line #	Response (CH1 ~~CH2~~)
Static Background	0	0
Static Spike	1	218
Cable Connection	2	0

Instrument Function Checks - PM

Filename 120911pm

- Instrument Warm-up ☑
- Null Instrument ☑
- Personnel Test ☑

	Line #	Response (CH1)
Static Background	0	-1
Static Spike	1	211
Cable Connection	~~2~~	~~N/A~~

Instrument Verification Strip - AM

Filename 120911ivsam

IVS Transect	Line #
Seeded	0
Offset	-2
Background	-15

Instrument Verification Strip - PM

Filename 120911ivspm

IVS Transect	Line #
Seeded	0
Offset	-2
Background	-15

EM31-MK2:

- Instrument Warm-up ☐
- Instrument Calibration ☐

Instrument Function Checks - AM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Instrument Function Checks - PM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Notes: 120911ivsam1, 120911ivsam3 - Brett's IVS.
Glinepaul,

Daily Geophysics Checklist

Date: 12/12/11
Team: NOVAK

Instrument Configuration:
- EM61-MK2 Single Unit: ☑
- EM61-MK2 Underwater: ☐
- EM-31 MK2: ☐

EM61-MK2:

Instrument Function Checks - AM

Filename 121211am

- Instrument Warm-up ☑
- Null Instrument ☑
- Personnel Test ☑

	Line #	Response
Static Background	0	-1
Static Spike	1	210
Cable Connection	2	-5

Instrument Function Checks - PM

Filename 121211pm

- Instrument Warm-up ☑
- Null Instrument ☑
- Personnel Test ☑

	Line #	Response
Static Background	0	-4
Static Spike	1	230
Cable Connection	~~2~~	

Instrument Verification Strip - AM

Filename 121211 ivsam2

IVS Transect	Line #
Seeded	0
Offset	~~2~~ -2
Background	~~2~~ -15

Instrument Verification Strip - PM

Filename 121211ivspm

IVS Transect	Line #
Seeded	0
Offset	-2
Background	-15

EM31-MK2:

- Instrument Warm-up ☐
- Instrument Calibration ☐

Instrument Function Checks - AM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Instrument Function Checks - PM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Notes: delete 121211ivsam

Daily Geophysics Checklist

Date: ~~12/12/11~~ 12/13/11
Team: NovAK

Instrument Configuration:
- EM61-MK2 Single Unit: ☑
- EM61-MK2 Underwater: ☐
- EM-31 MK2: ☐

EM61-MK2: Delete Line 2 from AM QC

Instrument Function Checks - AM

Filename ~~121211~~ 121311am

- Instrument Warm-up ☑
- Null Instrument ☑
- Personnel Test ☑

	Line #	Response
Static Background	0	-1
Static Spike	1	222
Cable Connection	~~2~~ 3	0

Instrument Function Checks - PM

Filename 121311 pm

- Instrument Warm-up ☑
- Null Instrument ☑
- Personnel Test ☐

	Line #	Response
Static Background	0	-5
Static Spike	1	223
Cable Connection	~~2~~	

Instrument Verification Strip - AM

Filename 121311 ivs am

IVS Transect	Line #
Seeded	0
Offset	-2
Background	-15

Instrument Verification Strip - PM

Filename 121311 ivs pm

Delete line 38

IVS Transect	Line #
Seeded	0
Offset	-2
Background	-15

EM31-MK2:

- Instrument Warm-up ☐
- Instrument Calibration ☐

Instrument Function Checks - AM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Instrument Function Checks - PM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Notes:

Daily Geophysics Checklist

Date: 12/14/11
Team: Novak

Instrument Configuration:
- EM61-MK2 Single Unit: ☒
- EM61-MK2 Underwater: ☐
- EM-31 MK2: ☐

EM61-MK2: delete 121411am

Instrument Function Checks - AM

Filename 121411am1

- Instrument Warm-up ☒
- Null Instrument ☒
- Personnel Test ☒

	Line #	Response
Static Background	0	-2
Static Spike		207
Cable Connection	2	0

Instrument Verification Strip - AM

Filename 121411ivsam

IVS Transect	Line #
Seeded	0
Offset	-2
Background	-15

Instrument Function Checks - PM

Filename 121411pm

- Instrument Warm-up ☒
- Null Instrument ☒
- Personnel Test ☐

	Line #	Response
Static Background	0	0
Static Spike	1	218
Cable Connection		

Instrument Verification Strip - PM

Filename 121411ivspm

IVS Transect	Line #
Seeded	0
Offset	-2
Background	-15

EM31-MK2:

- Instrument Warm-up ☐
- Instrument Calibration ☐

Instrument Function Checks - AM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Instrument Function Checks - PM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Notes:

Daily Geophysics Checklist

Date: 12/15/11
Team: Novak

Instrument Configuration:
- EM61-MK2 Single Unit: ☑
- EM61-MK2 Underwater: ☐
- EM-31 MK2: ☐

EM61-MK2:

Instrument Function Checks - AM

Filename 121511am

- Instrument Warm-up ☑
- Null Instrument ☑
- Personnel Test ☑

	Line #	Response
Static Background	0	0
Static Spike	1	219
Cable Connection	2	-5

Instrument Verification Strip - AM

Filename 121511ivsam

IVS Transect	Line #
Seeded	0
Offset	-2
Background	-15

Instrument Function Checks - PM

Filename 121511pm

- Instrument Warm-up ☑
- Null Instrument ☑
- Personnel Test ☑

	Line #	Response
Static Background	0	-5
Static Spike	1	225
Cable Connection	~~2~~	

Instrument Verification Strip - PM

Filename 121511ivspm

IVS Transect	Line #
Seeded	0
Offset	-2
Background	-15

EM31-MK2:

- Instrument Warm-up ☐
- Instrument Calibration ☐

Instrument Function Checks - AM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Instrument Function Checks - PM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Notes:

Daily Geophysics Checklist

Date: 12/16/2011
Team: Novak

Instrument Configuration:
- EM61-MK2 Single Unit: ☒
- EM61-MK2 Underwater: ☐
- EM-31 MK2: ☐

EM61-MK2: VERY WINDY CONDITIONS!!

Instrument Function Checks - AM

Filename 121611 am

- Instrument Warm-up ☒
- Null Instrument ☒
- Personnel Test ☒

	Line #	Response
Static Background	0	-2
Static Spike	1	215
Cable Connection	2	-3

Instrument Function Checks - PM

Filename 121611 pm

- Instrument Warm-up ☒
- Null Instrument ☒
- Personnel Test ☒

	Line #	Response
Static Background	0	-5
Static Spike	1	211
Cable Connection	~~2~~	

Instrument Verification Strip - AM

Filename 121611 ivs am

IVS Transect	Line #
Seeded	0
Offset	-2
Background	75

Instrument Verification Strip - PM

Filename 121611 ivs pm

IVS Transect	Line #
Seeded	0
Offset	-2
Background	-15

EM31-MK2:

- Instrument Warm-up ☐
- Instrument Calibration ☐

Instrument Function Checks - AM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Instrument Function Checks - PM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Notes:

Daily Geophysics Checklist

Date: 12/19/2011
Team: NOVAK

Instrument Configuration:
- EM61-MK2 Single Unit: ☑
- EM61-MK2 Underwater: ☐
- EM-31 MK2: ☐

EM61-MK2:

Instrument Function Checks - AM

Filename 121911amt2

- Instrument Warm-up ☑
- Null Instrument ☑
- Personnel Test ☑

	Line #	Response
Static Background	0	-2
Static Spike	1	212
Cable Connection	2	-3

Instrument Function Checks - PM

Filename 121911pmt2

- Instrument Warm-up ☑
- Null Instrument ☑
- Personnel Test ☑

	Line #	Response
Static Background	0	-1
Static Spike	1	220
Cable Connection	~~2~~	

Instrument Verification Strip - AM

Filename 121911ivsamt2

IVS Transect	Line #
Seeded	0
Offset	-2
Background	-15

Instrument Verification Strip - PM

Filename 121911ivspmt2

IVS Transect	Line #
Seeded	0
Offset	-2
Background	-15

EM31-MK2:

- Instrument Warm-up ☐
- Instrument Calibration ☐

Instrument Function Checks - AM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Instrument Function Checks - PM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Notes:

Daily Geophysics Checklist

Date: 12-19-11
Team: Sharkey

Instrument Configuration:
EM61-MK2 Single Unit: ☒
EM61-MK2 Underwater: ☐
EM-31 MK2: ☐

EM61-MK2:

Instrument Function Checks - AM

Filename 121911AM

Instrument Warm-up ☒
Null Instrument ☒
Personnel Test ☒

	Line #	Response
Static Background	1	-1
Static Spike	2	213
Cable Connection	3	1

Instrument Verification Strip - AM

Filename 121911 IVS AM

IVS Transect	Line #
Seeded	0
Offset	-2
Background	-15

Instrument Function Checks - PM

Filename 121911 PM

Instrument Warm-up ☒
Null Instrument ☒
Personnel Test ☐

	Line #	Response
Static Background	0	-4
Static Spike	1	219
Cable Connection		

Instrument Verification Strip - PM

Filename 121911 IVS PM

IVS Transect	Line #
Seeded	0
Offset	-2
Background	-15

EM31-MK2:

Instrument Warm-up ☐
Instrument Calibration ☐

Instrument Function Checks - AM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Instrument Function Checks - PM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Notes: Add'l IVS + 6-line collected by NS. File = 121911ivsnas
6line File = 121911 6line nas

Daily Geophysics Checklist

Date: 12/20/11
Team: NOVAK

Instrument Configuration:
- EM61-MK2 Single Unit: ☑
- EM61-MK2 Underwater: ☐
- EM-31 MK2: ☐

EM61-MK2:

Instrument Function Checks - AM

Filename 122011amt2

- Instrument Warm-up ☑
- Null Instrument ☑
- Personnel Test ☑

	Line #	Response
Static Background	0	-1
Static Spike	1	218
Cable Connection	2	-2

Instrument Verification Strip - AM

Filename 122011ivs amt2

IVS Transect	Line #
Seeded	0
Offset	-2
Background	-15

Instrument Function Checks - PM

Filename 122011pmt2

- Instrument Warm-up ☑
- Null Instrument ☑
- Personnel Test ☑

	Line #	Response
Static Background	0	-1
Static Spike	1	213
Cable Connection	~~2~~	

Instrument Verification Strip - PM

Filename 122011ivspmt2

IVS Transect	Line #
Seeded	0
Offset	-2
Background	-15

EM31-MK2:

- Instrument Warm-up ☐
- Instrument Calibration ☐

Instrument Function Checks - AM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Instrument Function Checks - PM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Notes:

Daily Geophysics Checklist

Date: 12-20-11
Team: Sharkey

Instrument Configuration:
EM61-MK2 Single Unit: ☒
EM61-MK2 Underwater: ☐
EM-31 MK2: ☐

EM61-MK2:

Instrument Function Checks - AM

Filename 122011 AM

Instrument Warm-up ☒
Null Instrument ☒
Personnel Test ☒

	Line #	Response
Static Background	0	-2
Static Spike	1	219
Cable Connection	2	-2

Instrument Verification Strip - AM

Filename 122011 IVS AM

IVS Transect	Line #
Seeded	0
Offset	-2
Background	-15

Instrument Function Checks - PM

Filename 122011 PM

Instrument Warm-up ☒
Null Instrument ☒
Personnel Test ☐

	Line #	Response
Static Background	0	-4
Static Spike	1	215
Cable Connection		

Instrument Verification Strip - PM

Filename 122011 IVS PM

IVS Transect	Line #
Seeded	0
Offset	-2
Background	-15

EM31-MK2:

Instrument Warm-up ☐
Instrument Calibration ☐

Instrument Function Checks - AM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Instrument Function Checks - PM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Notes:

Daily Geophysics Checklist

Date: 12-21-11
Team: Sharkey

Instrument Configuration:
EM61-MK2 Single Unit: ☒
EM61-MK2 Underwater: ☐
EM-31 MK2: ☐

EM61-MK2:

Instrument Function Checks - AM

Filename 122111 AM

Instrument Warm-up ☒
Null Instrument ☒
Personnel Test ☒

	Line #	Response
Static Background	0	0
Static Spike	1	215
Cable Connection	2	-2

Instrument Verification Strip - AM

Filename 122111 IVS AM

IVS Transect	Line #
Seeded	0
Offset	-2
Background	-15

Instrument Function Checks - PM

Filename 122111 PM

Instrument Warm-up ☒
Null Instrument ☒
Personnel Test ☐

	Line #	Response
Static Background	0	-6
Static Spike	1	221
Cable Connection		

Instrument Verification Strip - PM

Filename 122111 IVS PM

IVS Transect	Line #
Seeded	0
Offset	-2
Background	-15

EM31-MK2:

Instrument Warm-up ☐
Instrument Calibration ☐

Instrument Function Checks - AM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Instrument Function Checks - PM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Notes:

Daily Geophysics Checklist

Date: 12/22/11
Team: Jordan / Jundk

Instrument Configuration:
- EM61-MK2 Single Unit: ☒
- EM61-MK2 Underwater: ☐
- EM-31 MK2: ☐

EM61-MK2:

Instrument Function Checks - AM

Filename 122211 AM

- Instrument Warm-up ☒
- Null Instrument ☒
- Personnel Test ☒

	Line #	Response
Static Background	0	-1
Static Spike	1	218
Cable Connection	2	-3

Instrument Verification Strip - AM

Filename 122211 IVS AM

IVS Transect	Line #
Seeded	0
Offset	-2
Background	-15

Instrument Function Checks - PM

Filename 122211 PM

- Instrument Warm-up ☒
- Null Instrument ☒
- Personnel Test ☐

	Line #	Response
Static Background	0	-7
Static Spike	1	216
Cable Connection		

Instrument Verification Strip - PM

Filename 122211 IVS PM 1

IVS Transect	Line #
Seeded	0
Offset	-2
Background	-15

EM31-MK2:

- Instrument Warm-up ☐
- Instrument Calibration ☐

Instrument Function Checks - AM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Instrument Function Checks - PM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Notes: 122211 AM 1
QC @ Grid 20

	Line	Response
Background -	0	-3mv
Spike -	1	222mv
Personnel -	2	-4mv

122211 PM1
QC @ Grid 20

	Line	Response
Static	0	-2
Spike	1	221

Daily Geophysics Checklist

Date: 1/11/12
Team: 1
Collector: B. Guthrie

Instrument Configuration:
- EM61-MK2 Single Unit: ☐
- EM61-MK2 Underwater: ☐
- EM-31 MK2: ☑

EM61-MK2:

Instrument Function Checks - AM

Filename _____

- Instrument Warm-up ☐
- Null Instrument ☐
- Personnel Test ☐

	Line #	Response
Static Background		
Static Spike		
Cable Connection		

Instrument Verification Strip - AM

Filename _____

IVS Transect	Line #
Seeded	
Offset	
Background	

Instrument Function Checks - PM

Filename _____

- Instrument Warm-up ☐
- Null Instrument ☐
- Personnel Test ☐

	Line #	Response
Static Background		
Static Spike		
Cable Connection		

Instrument Verification Strip - PM

Filename _____

IVS Transect	Line #
Seeded	
Offset	
Background	

EM31-MK2: 011112_am / 011112_DS_am
011112_DS_am2
011112_pm / 011112_DS_pm

- Instrument Warm-up ☑
- Instrument Calibration ☑

Instrument Function Checks - AM

	Line #	Response (Final)	Quad
Static Background	0	4.51	11.0
Dynamic Spike	0,1	✓	✓
Cable Connection	1	✓	~~4.51~~

Instrument Function Checks - PM

	Line #	Response
Static Background	0	11.0 / 4.50
Dynamic Spike	0,1	✓
Cable Connection	1	✓

Notes: Files: 011112_DP (Dredge Pits); 011112_FSL, 011112_FSL2
Lines 0, 7 Lines 0, 1 Lines 2

Repeat: 011112_FSL_r (Lines 0, 1)

Instrument placed on ground; Statics for 3 min, cable 1 min.
Remove check near manhole cover.

Daily Geophysics Checklist

Date: 1/12/12
Team: 1
B. Guthrie

Instrument Configuration:
- EM61-MK2 Single Unit: ☐
- EM61-MK2 Underwater: ☐
- EM-31 MK2: ☑

EM61-MK2:

Instrument Function Checks - AM

Filename _____

- Instrument Warm-up ☐
- Null Instrument ☐
- Personnel Test ☐

	Line #	Response
Static Background		
Static Spike		
Cable Connection		

Instrument Verification Strip - AM

Filename _____

IVS Transect	Line #
Seeded	
Offset	
Background	

Instrument Function Checks - PM

Filename _____

- Instrument Warm-up ☐
- Null Instrument ☐
- Personnel Test ☐

	Line #	Response
Static Background		
Static Spike		
Cable Connection		

Instrument Verification Strip - PM

Filename _____

IVS Transect	Line #
Seeded	
Offset	
Background	

EM31-MK2: 011212_am
011212-DS_am

011212_pm
011212-DS_pm

- Instrument Warm-up ☑
- Instrument Calibration ☑

Instrument Function Checks - AM

	Line #	Response
Static Background	0	12.1 / 4.25
Dynamic Spike	0,1	✓
Cable Connection	1	✓

Instrument Function Checks - PM

	Line #	Response
Static Background	0	12.1 / 4.1
Dynamic Spike	0,1	✓
Cable Connection	1	✓

Notes: Instrument old. at each of the survey areas.
011212_dp (0,1)
01212_tsL (0)
01212_tsh-r (0,1)
011212_SBA_1
011212_SBA-2

* For PM tests (static) NO DGPS - Convert Files with DGPS

Daily Geophysics Checklist

Date: 1/13/12
Team: 1
B. Guthrie

Instrument Configuration:
- EM61-MK2 Single Unit: ☐
- EM61-MK2 Underwater: ☐
- EM-31 MK2: ☑

EM61-MK2:

Instrument Function Checks - AM

Filename _____

- Instrument Warm-up ☐
- Null Instrument ☐
- Personnel Test ☐

	Line #	Response
Static Background		
Static Spike		
Cable Connection		

Instrument Verification Strip - AM

Filename _____

IVS Transect	Line #
Seeded	
Offset	
Background	

Instrument Function Checks - PM

Filename _____

- Instrument Warm-up ☐
- Null Instrument ☐
- Personnel Test ☐

	Line #	Response
Static Background		
Static Spike		
Cable Connection		

Instrument Verification Strip - PM

Filename _____

IVS Transect	Line #
Seeded	
Offset	
Background	

EM31-MK2: 011312-am
011312-DS-am

011312pm (0,1) (Dat)
011312_ds-pm (Nav) (0,1)

- Instrument Warm-up ☑
- Instrument Calibration ☑

Instrument Function Checks - AM

	Line #	Response
Static Background	0	12.1 4.2
Dynamic Spike	0,1	✓
Cable Connection	1	✓

Instrument Function Checks - PM

	Line #	Response
Static Background	0	12.2/3.2
Dynamic Spike	0,1	✓
Cable Connection	1	✓

Notes: 011312-SBA-2 (Lines 0-12)
011312_SBA-2r (repeat - Lines 0,1)
File 011312-gb Froze up.
several files, due to stop/go thru the brush/stream crossings

011312-gb
011312-gb-2
011312-gb-3
011312-gb-r (0,1)
011312-gb4

Daily Geophysics Checklist

Date: 1/16/12
Team: 1
B. Guthrie.

Instrument Configuration:
- EM61-MK2 Single Unit: ☐
- EM61-MK2 Underwater: ☐
- EM-31 MK2: ☒

EM61-MK2:

Instrument Function Checks - AM

Filename _____

- Instrument Warm-up ☐
- Null Instrument ☐
- Personnel Test ☐

	Line #	Response
Static Background		
Static Spike		
Cable Connection		

Instrument Verification Strip - AM

Filename _____

IVS Transect	Line #
Seeded	
Offset	
Background	

Instrument Function Checks - PM

Filename _____

- Instrument Warm-up ☐
- Null Instrument ☐
- Personnel Test ☐

	Line #	Response
Static Background		
Static Spike		
Cable Connection		

Instrument Verification Strip - PM

Filename _____

IVS Transect	Line #
Seeded	
Offset	
Background	

EM31-MK2: 011612-am (0,1)
011612-ds-am (0,1)

011612-pm (0,1)
011612-ds-pm (0,1)

- Instrument Warm-up ☑
- Instrument Calibration ☑

Instrument Function Checks - AM

	Line #	Response
Static Background	0	120.0/2.5
Dynamic Spike	0,1	✓
Cable Connection	1	✓

Instrument Function Checks - PM

	Line #	Response
Static Background	0	12.1/6.2
Dynamic Spike	0,1	✓
Cable Connection	1	✓

Notes: 011612-gp (Line 0).
011612-gp-2 (Line 1)

011612-WBA-1
011612-WBA-2
011612-20-24-1
011612-20-24-2

011612-20-24-1

Daily Geophysics Checklist

Date: 1/19/12
Team: 1
P. Novak

Instrument Configuration:
- EM61-MK2 Single Unit: ☒
- EM61-MK2 Underwater: ☐
- EM-31 MK2: ☐

EM61-MK2:

Instrument Function Checks - AM

Filename 011912am

- Instrument Warm-up ☒
- Null Instrument ☒
- Personnel Test ☒

	Line #	Response	
Static Background	0	-2.0 ch 1	3 min
Static Spike	1	232	3 min
Cable Connection	2	-5	

Instrument Function Checks - PM

Filename 011912pm

- Instrument Warm-up ☒
- Null Instrument ☒
- Personnel Test ☒

	Line #	Response	
Static Background	0	0 ch 1	3 min
Static Spike	1	226	
Cable Connection	2	-6	

Instrument Verification Strip - AM

Filename 011912_IVS-am

IVS Transect	Line #	
Seeded	0	NT
Offset	-2	70(-15)
Background	-15	0 NT

Instrument Verification Strip - PM

Filename 011912-IVS-pm

IVS Transect	Line #	
Seeded	0	NT
Offset	-2	70-5
Background	-15	0 NT

EM31-MK2:

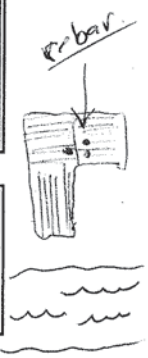
- Instrument Warm-up ☐
- Instrument Calibration ☐

Instrument Function Checks - AM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Instrument Function Checks - PM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		



Notes: IVS done as Line & Fiducial. -CH 1 drift to -7 Files 011912
500 Area Firing Point near Pleasantmyhake.
Paul Novak → Data Collector.
- Rebar is at sit @ middle of the 3 sectioned areas of survey data

File 011912-1 ⇒ Do NOT use
File 011912-2 ⇒ Allegro Froze-up.
File 011912-3
011912-4
File 011912-2 repeat of Last 2 lines of File 011912-4.

Daily Geophysics Checklist

Date: 1/2012
Team: 1
B. Guthrie / P. Novak

Instrument Configuration:
- EM61-MK2 Single Unit: ☒
- EM61-MK2 Underwater: ☐
- EM-31 MK2: ☐

EM61-MK2:

Instrument Function Checks - AM

Filename 012012am

- Instrument Warm-up ☒
- Null Instrument ☒
- Personnel Test ☒

	Line #	Response
Static Background	0	0.5
Static Spike	1	235mV
Cable Connection	2	5.0

Instrument Verification Strip - AM

Filename 012012-IVS-am

IVS Transect	Line #
Seeded	0
Offset	1
Background	2

Instrument Function Checks - PM

Filename 01/2012 pm

- Instrument Warm-up ☒
- Null Instrument ☒
- Personnel Test ☒

	Line #	Response
Static Background	0	0.6
Static Spike	1	229
Cable Connection	2	3.0

Instrument Verification Strip - PM

Filename 012012-IVS-pm.

IVS Transect	Line #
Seeded	0
Offset	1
Background	2

EM31-MK2:

- Instrument Warm-up ☐
- Instrument Calibration ☐

Instrument Function Checks - AM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Instrument Function Checks - PM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Notes: EM61 Gurney mode w/RTK @ IVS.; File 012012-a - Attempted to collect as DGPS checkpoints, some cable issues => data may be ??.
File 012012-b collected in ~~raw~~ GPS, GPS File 012012-b; ~~clocks~~ synced.
GPS File collected as Point_Generic.

012012_c
012012-hat - collected in woods - clearcut
IVS collected with RTK.

Daily Geophysics Checklist

Date: 1/23/12
Team: 1
B. Guthrie

Instrument Configuration:
- EM61-MK2 Single Unit: ☐
- EM61-MK2 Underwater: ☐
- EM-31 MK2: ☐

EM61-MK2:

Instrument Function Checks - AM

Filename 012312-am

- Instrument Warm-up ☒
- Null Instrument ☒
- Personnel Test ☒

	Line #	Response
Static Background	0	0.5
Static Spike	1	~230
Cable Connection	2	-1.2

Instrument Function Checks - PM

Filename 012312-pm

- Instrument Warm-up ☒
- Null Instrument ☒
- Personnel Test ☒

	Line #	Response
Static Background	0	-7.0
Static Spike	1	250
Cable Connection	2	-9

Instrument Verification Strip - AM

Filename 012312_ivs_am

IVS Transect	Line #	
Seeded	0	0N +
Offset	1	70S -
Background	2	0N +

Instrument Verification Strip - PM

Filename 012312-ivs-pm

IVS Transect	Line #	
Seeded	0	0N
Offset	1	70S
Background	2	0N

Data collected Line + Fiducial.

EM31-MK2:

- Instrument Warm-up ☐
- Instrument Calibration ☐

Instrument Function Checks - AM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Instrument Function Checks - PM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Notes: 012312-A; 012312_b - Many transects were around buildings. Grassy areas were hit as much as possible, - Some deviations from original transects.
012312_B - changed GPS battery

Drift on channel 1 during pm tests

Daily Geophysics Checklist

Date: 1/24/12
Team: 1

Paul Novak / Guthrie.

Instrument Configuration:
- EM61-MK2 Single Unit: ☒
- EM61-MK2 Underwater: ☐
- EM-31 MK2: ☐

EM61-MK2:

Instrument Function Checks - AM

Filename 012412-am

- Instrument Warm-up ☒
- Null Instrument ☒
- Personnel Test ☒

	Line #	Response
Static Background	0	0.1
Static Spike	1	227
Cable Connection	2	1.0

Instrument Verification Strip - AM

Filename 012412-ivs-am

IVS Transect	Line #	
Seeded	0	ON+
Offset	-2	70S-
Background	~~2~~ -15	ON+

Instrument Function Checks - PM

Filename 012412-pm

- Instrument Warm-up ☒
- Null Instrument ☒
- Personnel Test ☒

	Line #	Response
Static Background	0	-0.5
Static Spike	1	229
Cable Connection	2	-1

Instrument Verification Strip - PM

Filename 012412-ivs-pm

IVS Transect	Line #	
Seeded	0	↑N 0
Offset	-2	↓S 70S
Background	-15	↑N 0

EM31-MK2:

- Instrument Warm-up ☐
- Instrument Calibration ☐

Instrument Function Checks - AM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Instrument Function Checks - PM

	Line #	Response
Static Background		
Dynamic Spike		
Cable Connection		

Notes: Lake Denmark - DO NOT USE 012412-LD_1 - Dark
012412-LD_2 & 012412-LD-3 Denmark Grid FP-01 - Line & Fid.
012412_A - 900 Area Transect - Lines 0, 1.

APPENDIX L

CENAB FORM 948

U.S. Army Corps of Engineers Baltimore District
Ordnance and Explosives Safety
Memo

TO: WESTON SOLUTIONS	**DATE** 10 May 2012	**TIME**: 15:00
Contract Number: W921DR-09-D-0006	**Project Location**: Picatinny – MMRP – Remedial Investigation	
DO #: 0002		

SUBJECT ITEMS **(CHECK ALL THAT APPLY)**

- [ ] **Work Plan**
- [X] **Quality Assurance**
- [ ] **Safety Violation**
- [ ] **Other**
- [ ] **Safety Comments**

DESCRIPTION: A Quality Assurance inspection of the grids noted below has been conducted by the CENAB Ordnance & Explosive Safety Specialist: All grids have passed Quality Assurance (QA) inspection in accordance with (IAW) the contract work plan.

- [ ] **Prompt correction or compliance with contract specifications is requested**

The following grids have passed QA:

26IR-001 thru 26IR-017
26OR-001 thru 26OR-103

USACE Site Representative
Christopher Yonat, CENAB OE Safety Specialist

RECEIPT ACKNOWLEDGED:

Contractor's Representative

ACTION TAKEN:

CENAB FORM 948 **1 April 2003**

U.S. Army Corps of Engineers Baltimore District
Ordnance and Explosives Safety
Memo

TO: WESTON SOLUTIONS	**DATE:** 20 MAY 2012	**TIME:** 1000
Contract Number: W921DR-09-D-0006	**Project Location:** PICATINNY ARSENAL MMRP REMEDIAL INVESTIGATION	
DO #: 0002		

SUBJECT ITEMS **(CHECK ALL THAT APPLY)**

- [ ] **Work Plan**
- [ ] **Quality Assurance**
- [ ] **Safety Violation**
- [ ] **Other**
- [x] **Safety Comments**

DESCRIPTION: This 948 Form is presented to Weston Solutions for Exceptional Safety during all aspects of work on the subject task/contract. The entire Weston/Arcadis team maintained exceptional safety awareness and performance during all operational activities of UXO work.

Great Job!

USACE Site Representative
CENAB OE Safety Specialist

RECEIPT ACKNOWLEDGED:

Contractor's Representative

ACTION TAKEN:

CENAB FORM 948
1 April 2003

U.S. Army Corps of Engineers Baltimore District
Ordnance and Explosives Safety
Memo

TO: WESTON SOLUTIONS	**DATE** 28 May 2012	**TIME**: 15:00
Contract Number: W921DR-09-D-0006	**Project Location**: Picatinny – MMRP – Remedial Investigation	
DO #: 0002		

SUBJECT ITEMS **(CHECK ALL THAT APPLY)**

- [ ] **Work Plan**
- [X] **Quality Assurance**
- [ ] **Safety Violation**
- [ ] **Other**
- [ ] **Safety Comments**

DESCRIPTION: A Quality Assurance inspection of the areas noted below has been conducted by the CENAB Ordnance & Explosive Safety Specialist: All areas have passed Quality Assurance (QA) inspection in accordance with (IAW) the contract work plan. All Transects have passed QA inspection IAW Contract Work Plan. This 948 is the 2nd of 2 948 Forms for this contract.

- [ ] **Prompt correction or compliance with contract specifications is requested**

The following areas have passed
QA: ALL Mag & Dig Transects
26IR-018
FOA-001 thru FOA-007
LDM-001 & LPW-001

USACE Site Representative
Christopher Yonat, CENAB OE Safety Specialist

RECEIPT ACKNOWLEDGED:

Contractor's Representative

ACTION TAKEN:

CENAB FORM 948 **1 April 2003**

U.S. Army Corps of Engineers Baltimore District
Ordnance and Explosives Safety
Memo

TO: WESTON SOLUTIONS	**DATE** 27 September 2012	**TIME**: 15:00
Contract Number: W921DR-09-D-0006	**Project Location**: Picatinny – MMRP – Remedial Investigation	
DO #: 0002		

SUBJECT ITEMS **(CHECK ALL THAT APPLY)**

- [ ] **Work Plan**
- [X] **Quality Assurance**
- [ ] **Safety Violation**
- [ ] **Other**
- [ ] **Safety Comments**

DESCRIPTION: A Quality Assurance inspection of the areas noted below has been conducted by the CENAB Ordnance & Explosive Safety Specialist: All listed grids have passed Quality Assurance (QA) inspection in accordance with (IAW) the contract work plan. This is the (3rd) Form 948 for this contract work plan.

- [ ] **Prompt correction or compliance with contract specifications is requested**

The following areas have passed QA: Grids Former Code 300-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12 & 13.

YONAT.CHRISTOPHER.1029480997

Digitally signed by YONAT.CHRISTOPHER.1029480997
DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=YONAT.CHRISTOPHER.1029480997
Date: 2012.09.27 07:45:13 -04'00'

USACE Site Representative
Christopher Yonat, CENAB OE Safety Specialist

RECEIPT ACKNOWLEDGED:

Contractor's Representative

ACTION TAKEN:

CENAB FORM 948 **1 April 2003**

APPENDIX M

MC DATA

Data provided separately on this disk.

APPENDIX N

SHELL BURIAL GROUNDS TECHNICAL MEMO

Weston Solutions, Inc.
1400 Weston Way
West Chester, PA 19380
610-701-3000 ● Fax 610-701-3186
www.westonsolutions.com

The Trusted Integrator for Sustainable Solutions

Memorandum

15 October 2012

Ms. Nancy Flaherty
Project Manager
U.S. Army Corps of Engineers
Baltimore District
10 South Howard Street
Baltimore, MD 21201

Work Order No.: 03886.551.002

Subject: Contract No. W912DR-09-D-0006, Delivery Order 0002
Military Munitions Response Program (MMRP) Remedial Investigations Munitions Response Services, Picatinny Arsenal, Morris County, New Jersey
Electrical Resistivity Results and 3D Modeling/Interpretation - Shell Burial Grounds Munitions Response Site (PICA-010-R-01)

1. INTRODUCTION

Weston Solutions, Inc. (WESTON) with support services by Enviroscan, Inc. performed a nonintrusive Electrical Resistivity (ER) geophysical investigation at the Shell Burial Grounds Munitions Response Site (MRS) (PICA-010-R-01) at Picatinny Arsenal, New Jersey. The investigations were conducted from February 6 through 9, 2012, with the expressed objectives of imaging the lateral and vertical extents of the 1926 Explosion craters associated with the Shell Burial Grounds MRS – West and Shell Burial Grounds MRS – East. The investigation consisted of four ER transects conducted at each burial ground as shown in Figure 1 (Attachment A). The surveys were performed using an Advanced Geosciences, Inc. (AGI) SuperSting R8 earth resistivity imaging (ERI) system.

The ER field data was processed using Geotomo RES2DINV software to produce apparent resistivity pseudo-sections that correlated with actual resistivity measurements. The pseudo-sections were imported into EarthVisions 8.1, a geologic modeling software by Dynamic Graphics (DGI, 2010), to construct three-dimensional (3D) conceptual models for the purpose of estimating the lateral and vertical extents of the 1926 Explosion craters and the disposal material contained within.

1.1 SHELL BURIAL GROUNDS MRS (PICA-010-R-01)

The Shell Burial Grounds MRS (PICA-010-R-01) consists of three craters that were formed from the 1926 Lake Denmark Naval Ammunition Depot explosion; details on this explosion are provided in the Final Historical Records Review (Malcolm Pirnie, November 2006). Two of the three craters are directly adjacent to one another, coalescing as a single site; the Shell Burial Grounds - West. The craters were subsequently used as two burial grounds, the Shell Burial Grounds – East and the Shell Burial Grounds West, to dispose of approximately 25 tons of explosives released during the 1926 explosion. The burial areas are estimated at 25 to 35 ft deep (Malcolm Pirnie, November 2006). Potential munitions disposed of at this MRS may

include projectiles, mines, depth charges, fuzes, explosives, small arms ammunition, propellants, and possibly rocket fuels. It was also reported in the Final Site Inspection Report that the MRS potentially contained acids, pickling liquors, cyanide, and phenol (Malcolm Pirnie, 2008). Both burial grounds have the same munitions of explosive concern (MEC) potential; discarded material from the 1926 explosion and from Navy operations. Both sites also have similar MEC density, depth and transport mechanisms/migration routes. Both were used for disposal of material by the Navy until 1945, after which time the craters were backfilled/covered with as much as 20 feet of fill material (Malcolm Pirnie, November 2006). No records of the types of materials or amounts of material disposed of in the burial grounds were maintained. Currently, institutional controls (ICs) (i.e., chain-link fencing with warning signs) restrict access into the MRS and bound what is thought to be the horizontal extent of the burial areas. The Site Inspection report refers to the two burial areas as the Northern shell burial area and the Southern shell burial area. To draw a clearer distinction between the two burial areas, shown in Figure 1, the Northern burial area (near building 3100) is referred to as the Shell Burial Grounds MRS – West; the Southern burial area (near building 3150) is referred to Shell Burial Grounds MRS – East.

The Shell Burial Grounds MRS - West covers approximately 4.2 acres and is located near Building 3100. The burial ground is bounded by 99th Road to the south, Bell Road and Main Road to the west, and Building 3100 to the east. Vacant land is located to the north. A sanitary sewer line passes through the area near Building 3100.

The Shell Burial Grounds MRS - East covers approximately 1.5 acres and is located near Building 3150. The burial ground is bounded by Gately Road to the south and east and by Shrader Road to the west. The area is completely fenced. Two water lines pass through the area near Building 3150.

1.2 OBJECTIVES

The primary objectives of the geophysical investigation were twofold;

1. Determine the horizontal extent of the subsurface material to verify that the current ICs (fencing) bound the two burial areas using a non-intrusive investigative approach.

2. Determine the vertical extent of the subsurface material as much as is possible without intrusive investigation.

This technical memorandum summarizes the geophysical instrumentation, methodologies, findings, and conclusions of the ERI survey investigation.

2. TECHNICAL APPROACH

2.1 ELECTRICAL RESISTIVITY IMAGING (ERI) METHODOLOGY

The 2-D ERI method utilizes a collinear arrangement of uniformly-spaced electrodes inserted into the ground to profile varying subsurface conditions as a function of differences in the electrical resistivity. Basically, direct current (DC) is transmitted into the ground by a pair of electrodes and the potential drop in voltage is measured using various combinations of paired electrodes. The distribution of subsurface resistivity generates a geoelectric profile for a given electrode array which is reconstructed from the measured current and voltage data by a process known as inversion. The survey implementation and data analyses process are described in the following sections.

2.2 SURVEY IMPLEMENTATION

ER imaging surveys were performed using an AGI SuperSting/Swift R8 earth resistivity imaging system to delineate the lateral and vertical extents of the burial areas. ER survey lines, two each, along the long and short axis, were placed across each burial areas to profile the varying subsurface conditions by measuring the voltage drop between various combinations of paired electrodes. The electrode spacing used during the surveys was based on optimum parameters determined to provide the most reliable resolution and depth penetration necessary to image suspected structural features underlying the Shell Burial Grounds MRS. The typical array consisted of up to 56, ¼-inch diameter, 16-inch long, stainless steel, non-polarizing (metal stakes) electrodes driven to an average depth of 8-inch into the soil.

Prior to data acquisition (as standard operating procedure) salt-water was poured at the base of each electrode to saturate the soil and enhance the contact and flow of current into the ground. A contact resistance test was then conducted prior to initiating data collection for each array to evaluate the electrode-to-soil coupling. Typical contact resistances of less than 2,000 ohms (Ω) indicated good coupling. In portions of the site contact resistance measurements exceeded 2,000 ohms (Ω). This usually occurred where rocky or poorly compacted soils were present.

A single array or single deployment distance (SDD) consisted of four Swift cables of 14 electrodes per cable, laid out with consecutive numbering (electrodes' 1 through 56). Using an electrode spacing of 10 feet, the SuperSting R8 yielded an effective analysis depth of approximately 50 feet. The survey crew made every effort to maximize the depth of penetration by extending each array to its fullest horizontal extent within the limits of the site.

For transects exceeding 550 feet in length, an additional array was appended to the end of the initial array deployment. After the data was collected for the initial array deployment, the first segment of cable (containing electrodes' 1-28) was moved behind the last cable, in a roll-along method, making the order of electrodes as 29 through 56 and 1 through 28. Data collection continued in this fashion taking care not to acquire double measurements in areas where the layouts overlapped, until the total desired distance was achieved. For each ER transect, the coordinates and elevations of the first and last electrode, and any topographic inflection points, were digitally mapped (see Figure 1) using an RTK Global Positioning System (GPS). Coordinates were projected to UTM, Zone 18 North, NAD83, in units of us survey feet and used to provide horizontal and vertical control.

The apparent resistivity data was then processed to produce resistivity cross-sections, analyzed against well logs of nearby wells, HRR information and maps.

2.2.1 Shell Burial Grounds MRS – West (Near Building 3100)

The ER investigation at Shell Burial Grounds MRS – West included four ER transects designated as WER1 through WER4. The extents of each transect and orientation is shown in figure 1. WER1 and WER2 were run longitudinally (southwest to northeast) parallel to building 3100; WER3 was run laterally in a west to east direction; and WER4 was run (northwest to southeast) parallel to 99th Road. Transects ranged in length from 410 feet to 820 feet. Individual total line distances for WER1 through WER4 were 210m (690 feet), 250m (820 feet), 125m (410 feet), and 125m (410 feet), respectively.

The desired coverage (for WER1 and WER2) was longer than the SDD for a single Swift cable array. Therefore to achieve the desired lengths, profile lines were completed using the roll-along method in a leapfrogging fashion. The data collected at WER1 and WER2 used a roll-along setup. Data collected at WER3 and WER4 used a single deployment distance.

2.2.2 Shell Burial Grounds MRS – East (Near Building 3150)

The ER investigation at Shell Burial Grounds MRS – East included four ER transects designated as EER1 through EER4. The extents of each transect and orientation is shown in figure 1. EER1 and EER2 were run longitudinally (southwest to northeast) parallel to Gately Road; WER3 and WER4 were run a northwest to southeast direction. Transects ranged in length from 410 feet to 820 feet. Individual total line distances for EER1 through EER4 were 210m (690 feet), 250m (820 feet), 125m (410 feet), and 125m (410 feet), respectively. Resistivity data was collected for all four ER Transects at Shell Burial Grounds MRS – East using a single deployment distance for a Swift cable array for each.

2.3 DATA ANALYSIS

The field data were downloaded from the ERI system to a laptop and processed using Geotomo RES2DINV software. RES2DINV inverts the data and divides the subsurface into a series of rectangular blocks. The algorithm determines the resistivities of the blocks producing an apparent resistivity pseudo-section that correlates with actual resistivity measurements. Several iterations of modeling are conducted to reduce the difference between the calculated and measured apparent resistivity values by adjusting the resistivity of the model blocks. The data were processed to a root mean square error (RMS) of less than 25% and an L2 factor of approximately 2 within 5 to 8 iterations. The pseudo sections were topographically corrected with elevations to develop the conceptual stratigraphic profiles provided in Figures 2 and 3 (Attachment A).

3. RESULTS

3.1 ANALYSES AND INTERPRETATIONS OF PSEUDO-SECTIONS

3.1.1 Shell Burial Grounds MRS – West (Near Building 3100)

Transect Specific Findings

An analysis of profiles WER1 and WER2 (Figure 2a and b) shows two significant anomalies situated laterally within the limits of the Shell Burial Grounds MRS - West. The larger of the two, identified as Pit 1 is characterized by three distinct layers (the cap, a high resistivity layer, and a low resistivity layer) occurring at a width of 340 feet along the WER1 profile. In Figure 2b only cap and underlying low resistivity layer are evident; these layers occur at a width of 280 feet along the WER2 profile. The depth of penetration was limited to approximately 22 feet due to poor contact resistance at the surface electrodes, affecting the quality of data at depth. As a result the deeper low resistivity zone was not imaged in this profile.

Increasing in depth, these layers are interpreted to be associated with the following depositional features.

- Residual cap material (overburden soils) occurring between 0 and 5+/- feet bgs.
- The high resistivity layer (>ρ Layer 2 – associated with the “post 1945” resistive backfill material (estimated depth 5 – 25 ft bgs,) and
- The low resistivity layer (<ρ Layer 3 – associated with (conductive) shell burial deposits (estimated depth 25 – 35+/- ft bgs).

The second anomaly feature, identified as Pit 2 depicts a single shallow layer within the upper 10 feet and occurs at a width of 110 feet along the transect. Based on the modeling results and adjacent ER transects it is likely that this feature represents a feather edge of the backfill material used to cover Pit 2. Figure 2b shows Pit 2 possessing a greater thickness (on the order of 15 feet) and a much higher resistance. Localized artifacts are evident in the profiles where surface fencing produced cultural influenced in the data. The fence locations and extent of influence are shown in both profiles.

Profiles WER3 and WER4 (Figures 2c and 2d) were conducted to intersect WER1 and WER2 as tie lines to corroborate data at intersection points and to provide transverse images to use for the model. An analysis of WER3 shows a disturbed overburden with variable resistivity values. These characteristics are in stark contrast with WER1 and WER2 which reflect a more homogeneous backfill or overburden. There is no clear structural evidence in WER3 that could be associated with the burial area. In contrast, the profile for WER4 shows clear boundaries that correlate with Pit 1. This is further supported by the model presented in section 3.2.

3.1.2 Shell Burial Grounds MRS – East (Near Building 3150)

An analysis of profiles EER1 and EER2 (Figure 3a and 3b) clearly shows a large single anomaly (depression) within the limits of the Shell Burial Grounds - East. The edges of the depression have a width of 210 feet along the EER1 profile, and a width of 277 feet along the EER2 profile. Three distinct layers are evident. Consistent with the depositional sequence imaged at the Shell

Burial Grounds - West, these layers are interpreted to be associated with the following depositional features.

- Residual cap material occurring between 0 and 5 to 10 feet bgs.
- The high resistivity layer (>ρ Layer 2 – associated with the "post 1945" resistive backfill material (estimated depth 10 – 25 ft bgs,) and
- The low resistivity layer (<ρ Layer 3 – associated with (conductive) shell burial deposits (estimated depth 25 – 35 ft bgs).

(Note: The electrical resistance (ρ of earth material is the opposition to the passage of an electric current through that material; the inverse quantity is electrical conductance (Ω, the ease at which an electric current passes.) Conversely, what is most evident in each profile is the rapid transition or gradient from the highly conductive deeper materials (suspected to represent the Shell Burial Grounds) to lowly conductive shallower backfill materials. A distinct interface is evident between the two layers generally occurring between 20 and 25 feet bgs and is interpreted to represent the approximate depth of the post 1945 backfill.

EER3 (Figure 3c) shows a disturbed overburden with variable resistivity values. The low resistivity layer (<ρ Layer 3 – associated with (conductive) shell burial deposits is evident below 20 to 25 ft bgs

EER4 (Figure 3d) shows the high resistivity layer (>ρ associated with the "post 1945" resistive backfill material estimated at depths between 10 – 25 feet bgs.

A 3D conceptual model was constructed using the WER and EER pseudo-sections for the purpose of estimating the lateral and vertical extents of 1926 Explosion craters and the disposal material contained within. The follow section details the modeling method and results.

3.2 EARTH VISION MODEL CONSTRUCTION

The geospatial model was constructed using the EarthVisions 8.1 geologic modeling software by Dynamic Graphics (DGI, 2010). The burial area dimensions were based upon Weston's analysis of geophysical data collected by both Weston and Enviroscan during February 2012. The burial areas were emplaced in a two-layer (bedrock and overburden) geologic model constructed from both site-specific and regional data. The following paragraphs describe how the available geologic and geophysical data were synthesized during the construction of the model.

3.2.1 Modeling Method

The geologic component of the model was developed by augmenting regional information with site-specific data. The regional data consisted of both bedrock and topographic surfaces downloaded from the NJDEP website at (http://www.state.nj.us/dep/gis/). The topography was obtained as a 10-meter resolution digital elevation model (DEM) for Watershed Management Area (WMA) 06. The 361-mi^2 dataset was cropped to a 0.5-mi^2 rectangular area encompassing the site and converted to an EarthVisions formatted grid. The DEM was then adjusted to account for topographic detail provided by three site monitoring wells (DM6-1 through -3) and topographic field data collected along the eight surveyed resistivity transects. The adjustment process warps the regional DEM such that its general shape is maintained but the revised surface honors the additional site-specific data. The bedrock surface used in the model was also developed in a similar multistep process that merged both regional and site-specific data.

The regional data were obtained as shapefiles (an industry standard geospatial format) containing elevation contours and outcrop polygons. The vertices of the outcrop polygons were assigned elevations from the DEM and were interpolated along with the bedrock contours to create a regional bedrock surface. The regional surface was then cropped to the 0.5-mi^2 area encompassing the site and finally normalized to match bedrock contacts provided in lithologic logs (from monitoring wells installed during the Dames and Moore 1998 SI and Shaw Phase III 1A RI for Area L) for eight of the thirteen monitoring wells in the vicinity.

The approximate extents and depth of the burial areas, as well as the approximate thicknesses of the cap and fill layers within, were developed through analysis of geophysical data. The resistivity pseudo-sections and interpretations discussed in section 3.1 were used as the primary dataset for delineating the burial areas edges/boundaries. The following procedure was used to incorporate the geophysical interpretations into the 3D model (Figure 4):

1. The geophysical transects were converted from 2D grids in Golden's Surfer software format to profiles in true 3D space for simultaneous viewing with borehole data and the geologic model (Figure 4a).
2. The surface geophysical data were imported as basemaps to facilitate simultaneous evaluation of these data with the resistivity profiles (Figure 4b).
3. New 3D points representing the interpreted base of the burial areas and the upper and lower surfaces of the cap layer were digitized along each resistivity profile (Figure 4c).
4. The points were contoured and interpolated to 2D EarthVisions formatted surfaces (Figure 4d).
5. The surfaces were assembled by EarthVisions into a 3D solid-volume model (Figure 4e).
6. The model was analyzed in EarthVisions to produce:
    a. Volumes for the various layers of the model (Figure 4e)
    b. Contours representing the total depth of the crater below ground as well as the thickness of the cap and underlying debris layers (Figure 4e)
    c. Stratigraphic profiles along the geophysical transects (Figure 4f)

3.2.2 Model Results

Figure 5 illustrates the 0.5-mi^2 model domain that encompasses both the WER and EER at Picatinny Arsenal. This figure uses both a 3D view and a plan view to portray the basic geologic framework into which the burial areas were inserted. The 3D view uses a two-fold vertical exaggeration to depict the geologic data from several site monitoring wells along with a profile of the geologic model assembled from them. The southern half of the model has been removed from this view to illustrate the slope of both the bedrock and the topography. Both surfaces are relatively flat beneath EER but dip steeply to the west beneath WER. Overburden thickness is approximately 20-ft beneath EER but ranges from 2 to 40-ft beneath WER. Bedrock is predicted to outcrop along the escarpment just east of WER and the overburden is predicted to thicken down the valley toward Green Pond Brook. The bedrock elevation and overburden thickness contours are depicted in the plan view portion of the figure.

Figures 6 and 7 provide several views focusing on the WER and EER, respectively. Each of these multi-pane figures depicts the following:

1. A 3D view of the burial areas built into the underlying geologic model
2. Profile views of the combined stratigraphic model along the resistivity transects
3. Pan view depiction of the burial area depth contours

4. A table summarizing the volumes and depths (or thicknesses) of the inferred burial area strata.

The WER consists of two individual burial areas resulting from two simultaneous explosions. Both interpreted burial areas reside within the current fence line. Pit 1 is approximately 30-feet deep and contains 33 thousand cubic yards (20 acre-ft) of material. The cap material averages 4 to 5-ft thick and makes up ~25% of this volume. The fill above the cap comprises ~15% of the volume. This leaves 23 thousand cubic yards (14 acre-feet) of material that is inferred to be a mixture of construction debris and reworked native material. Pit 2 is approximately half as deep as Pit 1 and contains approximately 15% of the volume of Pit 1. The relative composition of Pit 2 is approximately the same as Pit 1.

The EER consists of a single large burial area that is approximately 40-feet deep and contains 80 thousand cubic yards of material (50 acre-feet). The EER burial area volume is approximately double the combined volume of the WER burial areas. The burial area at EER extends slightly beyond the current fence line. Unlike the WER, the EER contains a basal zone of material that is extremely conductive. The presence of this zone, combined with anecdotal evidence regarding the large size of the EER crater, helped define the base of this burial area. The high and low conductivity debris zones were modeled as separate layers for the purpose of volume estimation. The high conductivity zone occupies 10 thousand cubic yards. This accounts for 16% of the total volume of burial pit material, the remainder of which is inferred to be a mix of construction debris and reworked native material.

4. CONCLUSIONS

The ER survey of this investigation included acquiring approximately 1,219 m (4,000 linear feet) of subsurface profiles consisting of approximately 3,620 soundings.

Based on the data acquired, the following conclusions may be made:

- Resistivity data correlates with the historical data presented in the SI report, for both burial areas, indicating three distinct layers interpreted to be associated with the following depositional features:

    - Residual cap material occurring between 0 and 5 to10 feet bgs.
    - The high resistivity layer (>ρ Layer 2 – associated with the "post 1945" resistive backfill material (estimated depth 10 – 25 ft bgs,) and
    - The low resistivity layer (<ρ Layer 3 – associated with (conductive) shell burial deposits (estimated depth 25 – 35 ft bgs).

- Using the WER and EER resistivity pseudo-sections in conjunction with regional data for both bedrock and topography, it was possible to construct a 3D conceptual site model delineating the lateral and vertical extents of 1926 Explosion craters along with estimated volumes of the disposal materials contained within.

- The Shell Burial Grounds MRS - West consists of two individual burial areas resulting from three sequential explosions. The presence of 2 burial areas correlates with the historic data of two craters coalescing into one site; the Shell Burial Grounds – West. Based on the ER results, both interpreted burial areas appear to reside within the current fence line. Pit 1 is approximately 30-feet deep and contains 33 thousand cubic yards (20 acre-ft) of material. The cap material averages 4 to 5-ft thick and makes up ~25% of this volume. The fill above the cap comprises ~15% of the volume. This leaves 23 thousand cubic yards (14 acre-feet) of material that is inferred to be a mixture of construction debris and reworked native material. Pit 2 is approximately half as deep as Pit 1 and contains approximately 15% of the volume of Pit 1. The relative composition of Pit2 is approximately the same as Pit 1.

- The Shell Burial Grounds MRS - East consists of a single large burial area that is approximately 40-feet deep and contains 80 thousand cubic yards of material (50 acre-feet). The EER burial area volume is approximately double the combined volume of the WER burial area. The burial area appears to extend slightly beyond the current fence line. Unlike the Shell burial Grounds MRS - West, the East contains a basal zone of material that is extremely conductive. The presence of this zone, combined with anecdotal evidence regarding the large size of the crater, helped define the base of this burial area. The high and low conductivity debris zones were modeled as separate layers for the purpose of volume estimation. The high conductivity zone likely represents burial material and occupies 10 thousand cubic yards. It is estimated to comprise approximately 16% of the total volume of material, the rest of which is inferred to be a mix of construction debris and reworked native materials used as backfill after 1945.

Limitations:

WESTON performs geophysical services in compliance with our corporate Geophysical Standard Operating Procedures (SOPs) developed from latest available industry standard practices and guidance. Although our SOPs establish criteria for stringent quality control, it must be understood that due to the complexities in the electrical properties of soil, these methods have limitations. As a result of these conditions, some structure may go undetected by geophysical methods and may require other methods to identify them. Therefore, no guarantees of 100% detection can be made or implied.

5. REFERENCES

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Dames & Moore. 1989. *Site Investigation of Picatinny Arsenal*, New Jersey Volume 1, Main Report and Appendices A-E. February 1989.

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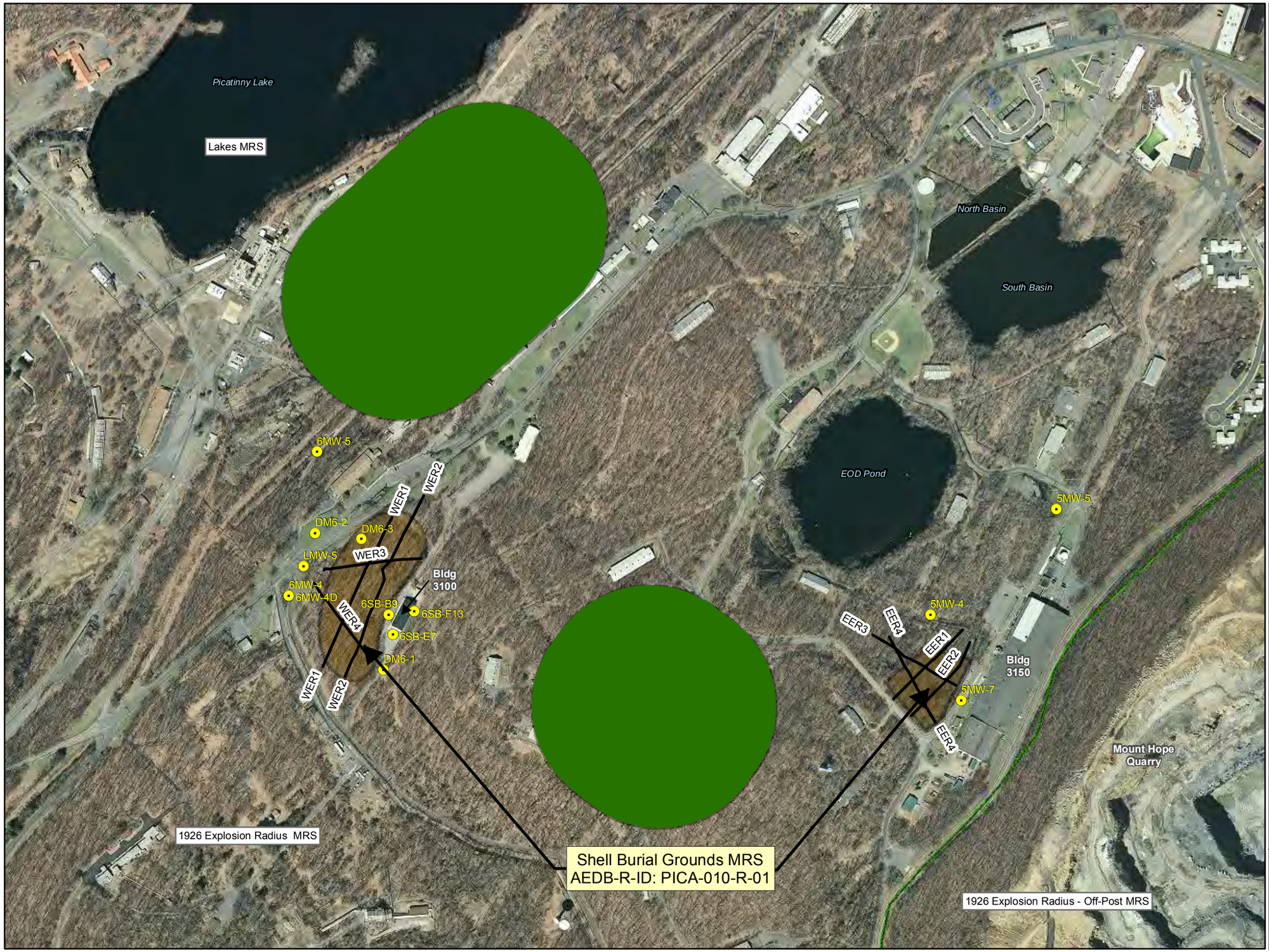
ATTACHMENT A
(FIGURES)



Legend

- Installation Boundary
- Operational Range Areas
- Munitions Response Site Boundaries
- Shell Burial Grounds MRS
- Monitoring Well
- ER Transects

Base Imagery: NJ 2007 Natural Color Imagery
Data Sources: 2008 SI Report
Army GIS Layers (August 2011)

Coordinate System: UTM Zone 18N
Datum: WGS84
Units: Feet

N
W E
S

400 200 0 400
Feet

Figure 1
Geophysical Transects
PICA-010-R-01
Picatinny Arsenal
Morris County, New Jersey

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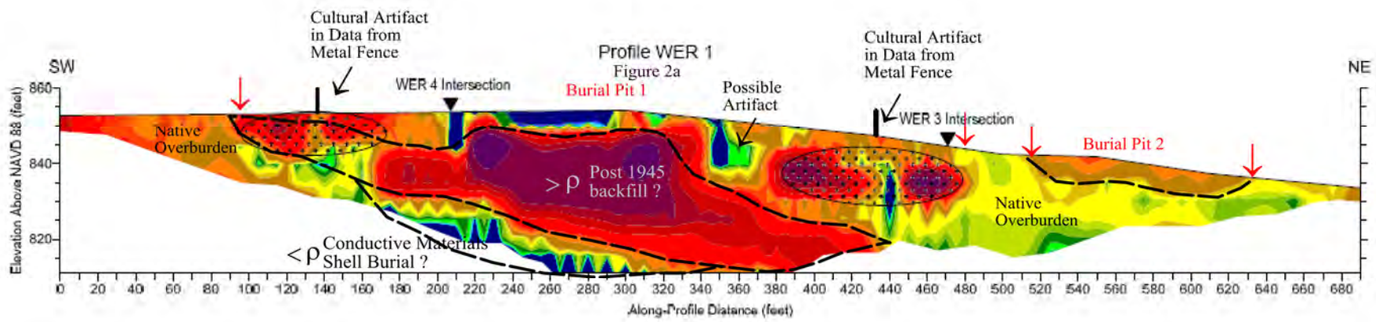

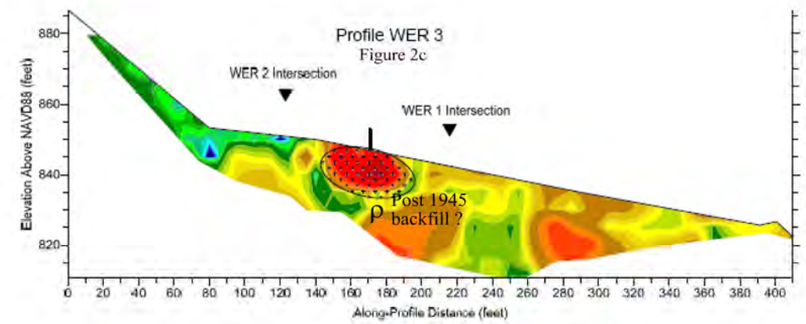

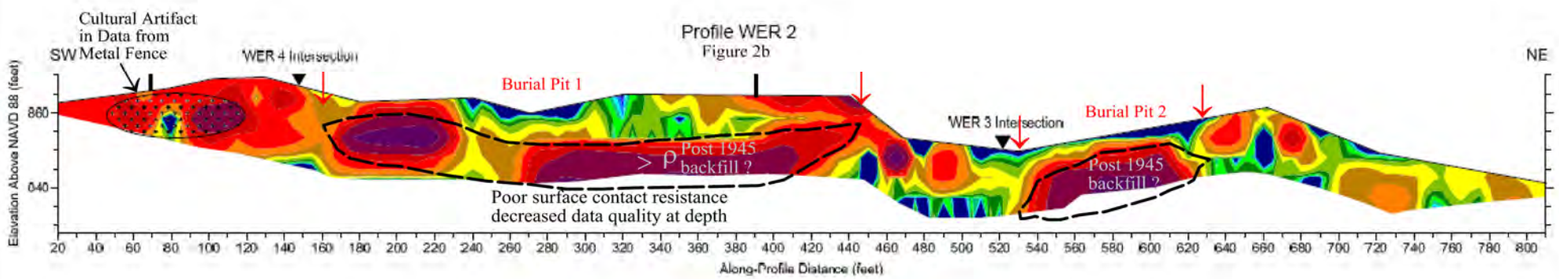

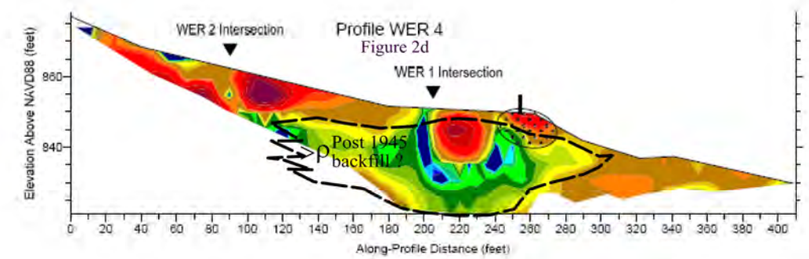

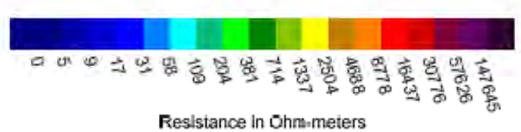

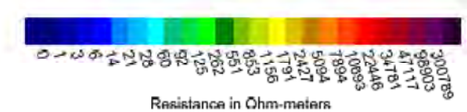

Notes:
Distance in Feet along line
Elevation in Feet above NAVD

Electrical imaging model from AGI Super Sting R-8
10-foot electrode spacing dipole-dipole Array
Res2dx32 inversion

LEGEND
- Cultural Artifact (i.e. metal Fence)
- ▼ Intersection Of ERI Profile
- Fence Crossing Location
- Interpreted Fill Boundaries
- Interpreted Perched water? Location

Prepared For:
U.S. Army Corp of Engineers
Baltimore District
Baltimore, MD. 21203

Contract #:
W912DR-09-D-0006

Prepared By:
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1 Weston Way
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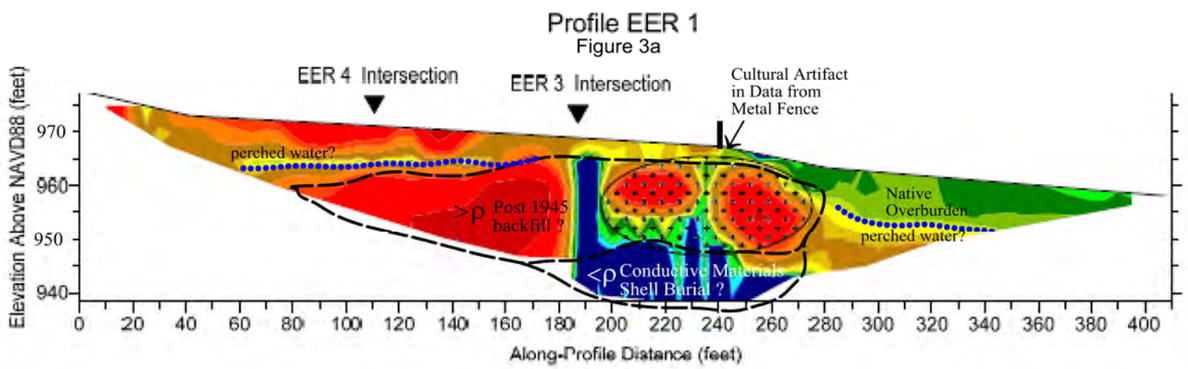
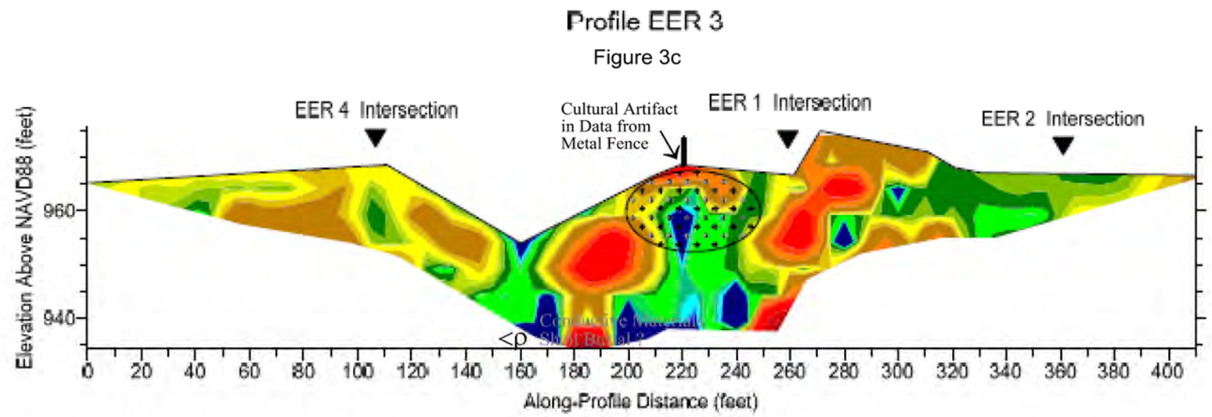
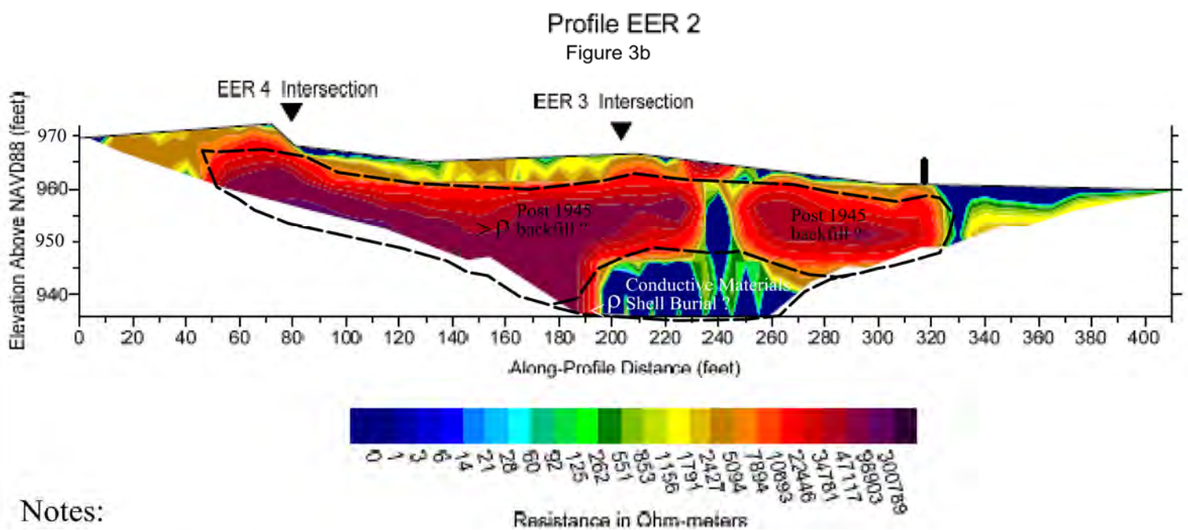
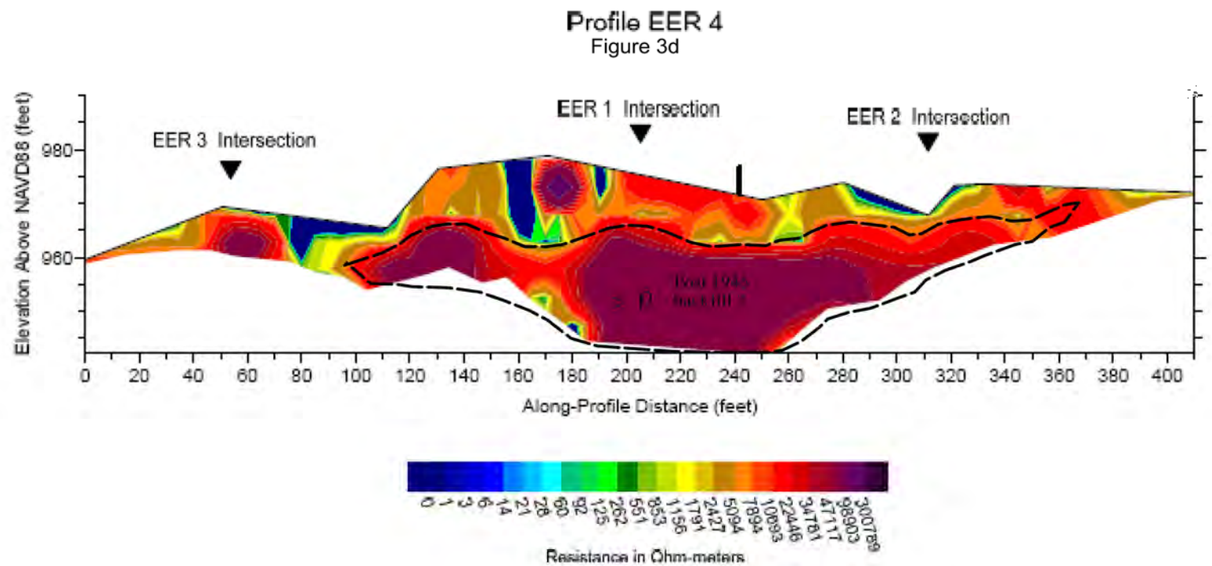
Figure 2
Earth Resistivity Pseudo Section
Shell Burial Ground MRS - West
Picatinny Arsenal, NJ









Notes:
Distance in Feet along line
Elevation in Feet above NAVD

Electrical imaging model from AGI Super Sting R-8
10-foot electrode spacing dipole-dipole Array
Res2dx32 inversion

LEGEND
- Cultural Artifact (i.e. metal Fence)
- ▼ Intersection Of ERI Profile
- Fence Crossing Location
- Interpreted Fill Boundaries
- Interpreted Perched water? Location

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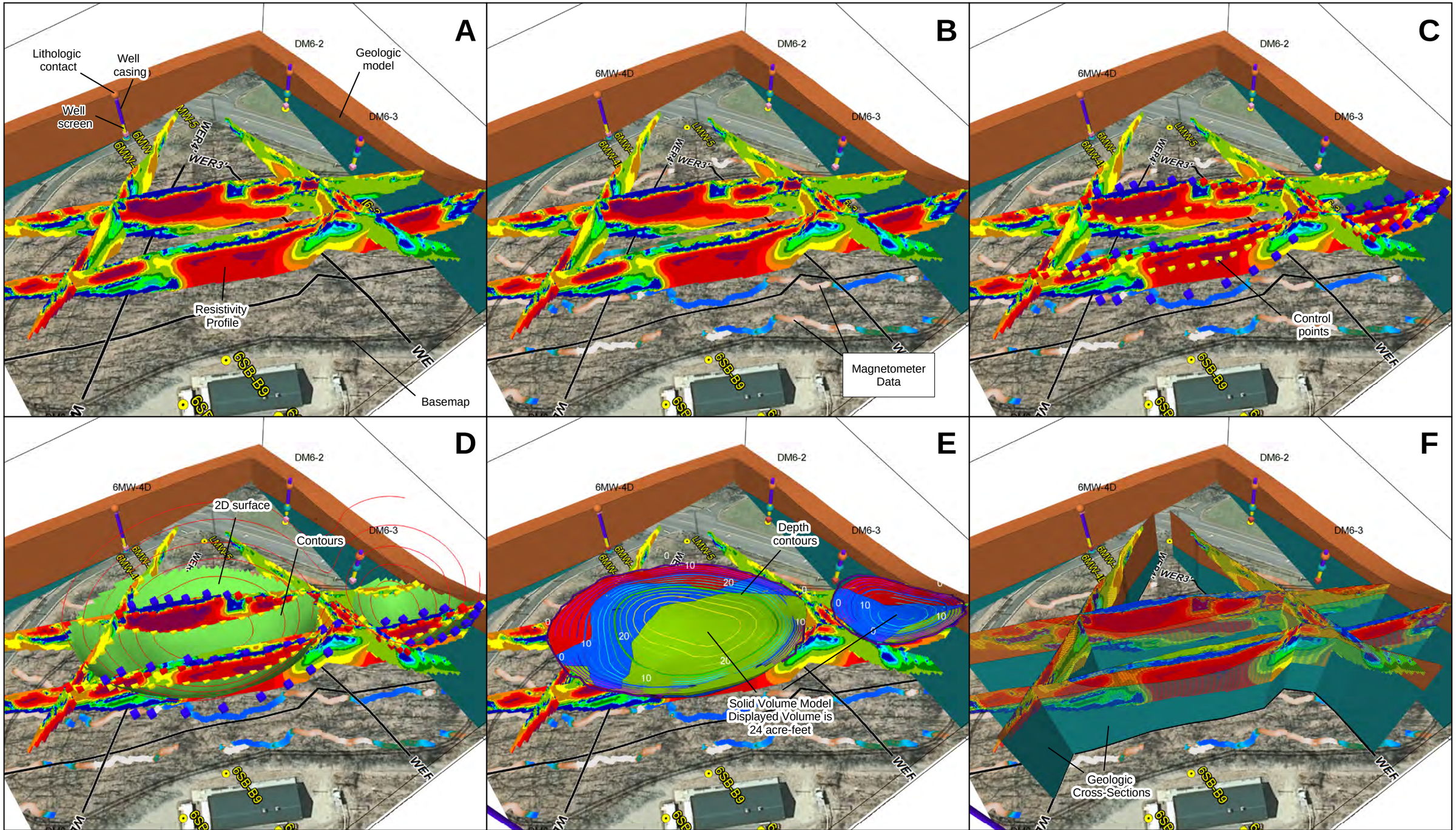
Figure 3
Earth Resistivity Pseudo Section
Shell Burial Ground MRS - East
Picatinny Arsenal, NJ



Legend

Geologic Zone
- Fill Material
- Cap Material
- Low Conductivity Debris
- Native Overburden
- Bedrock

Resistivity (ohm-m)
- < 4.73
- 4.73 - 8.85
- 8.85 - 16.57
- 16.57 - 31
- 31 - 58
- 58 - 109
- 109 - 204
- 204 - 381
- 381 - 714
- 714 - 1,337
- 1,337 - 2,503
- 2,503 - 4,688
- 4,688 - 8,778
- 8,778 - 16,436
- 16,436 - 30,776
- 30,776 - 57,625
- 57,625 - 147,645
- > 147,645

Figure 4
EarthVisions 3D Modeling Procedure

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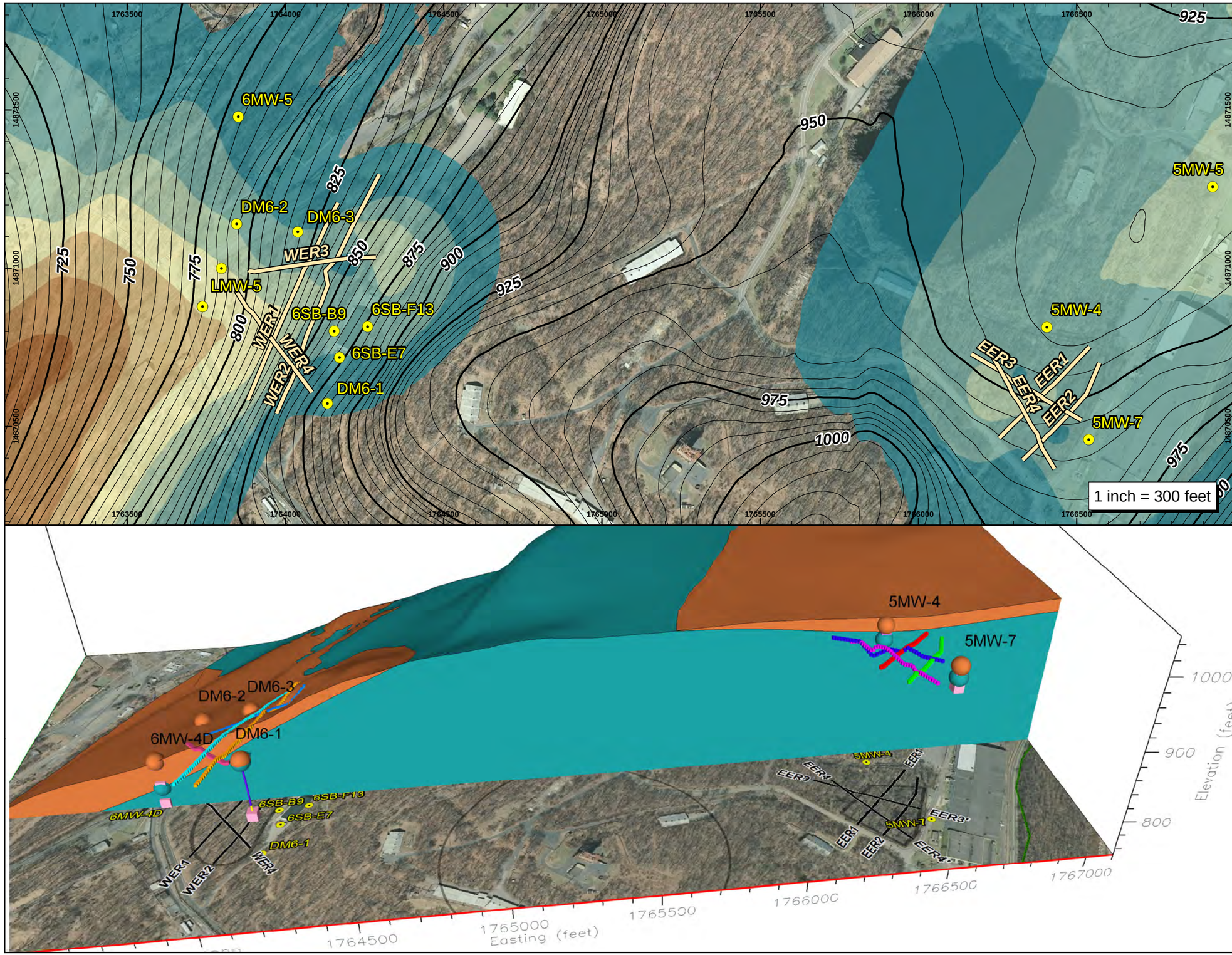

WESTON SOLUTIONS

Legend

- Well Locations
- Resistivity Transects
- Bedrock Elevation (ft MSL)

Overburden Thickness (feet)

- 1 - 10
- 10 - 20
- 20 - 30
- 30 - 40
- 40 - 50
- 50 - 60
- 60 - 70

Figure 5
Regional bedrock surface model

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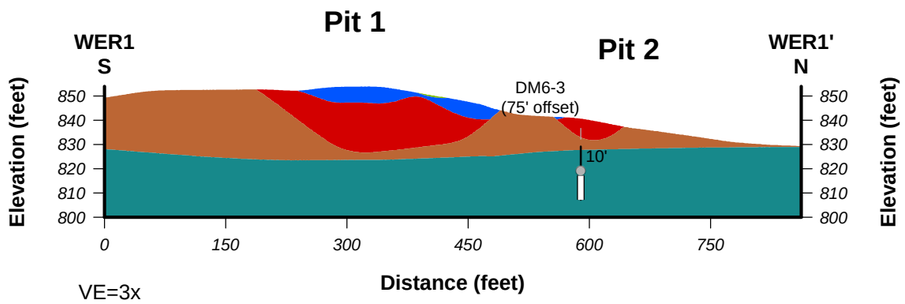
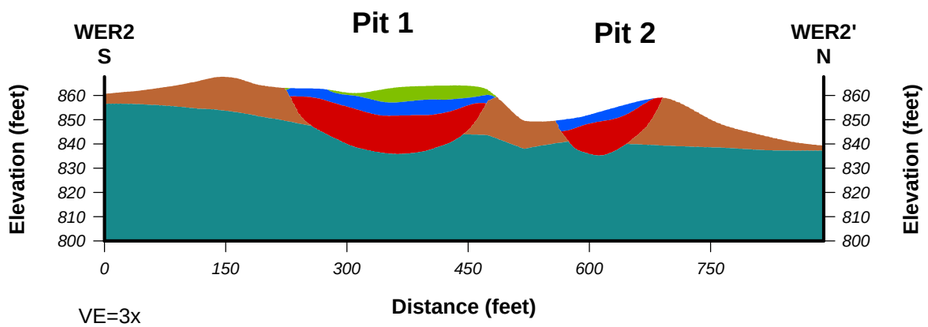
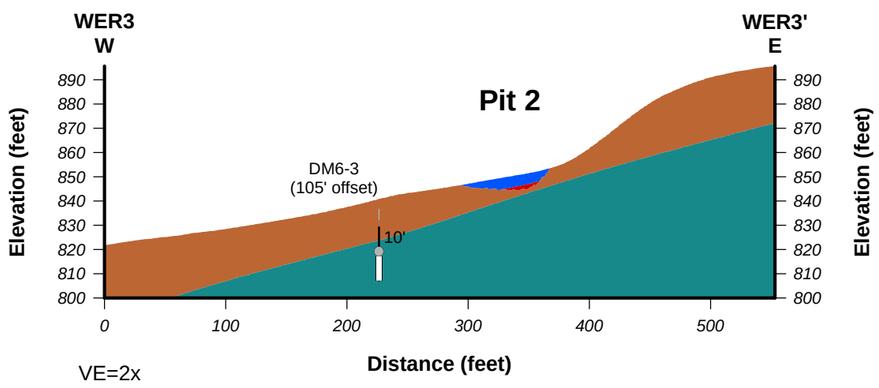
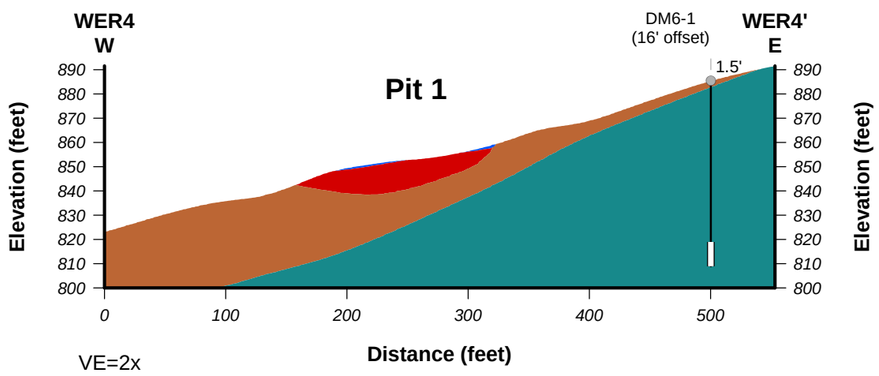
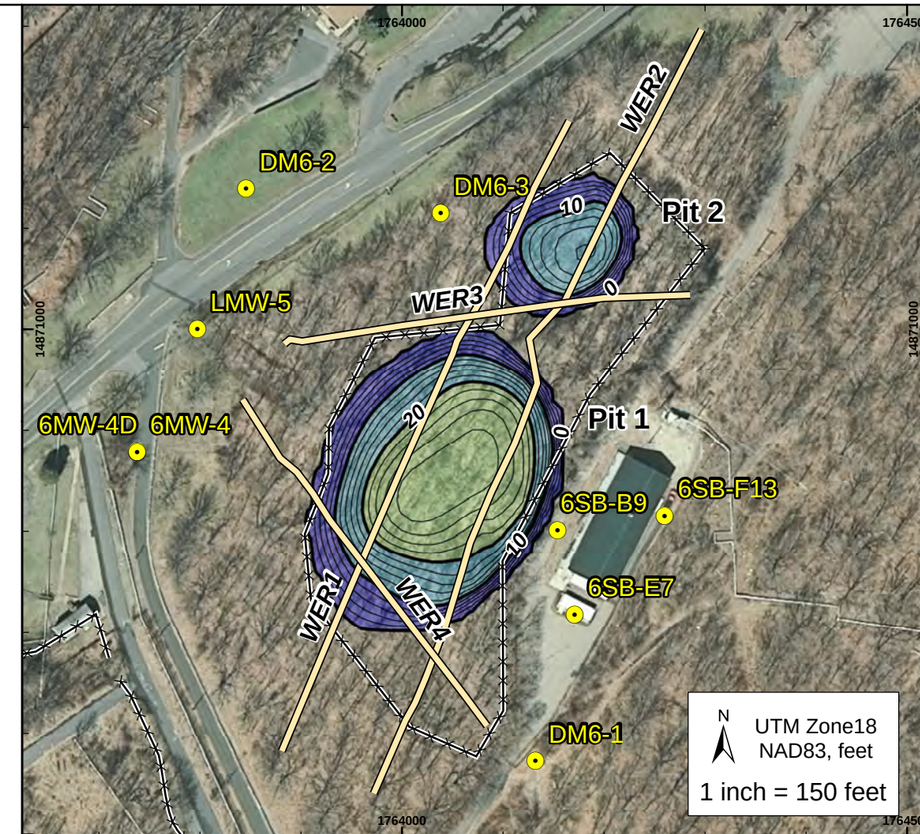
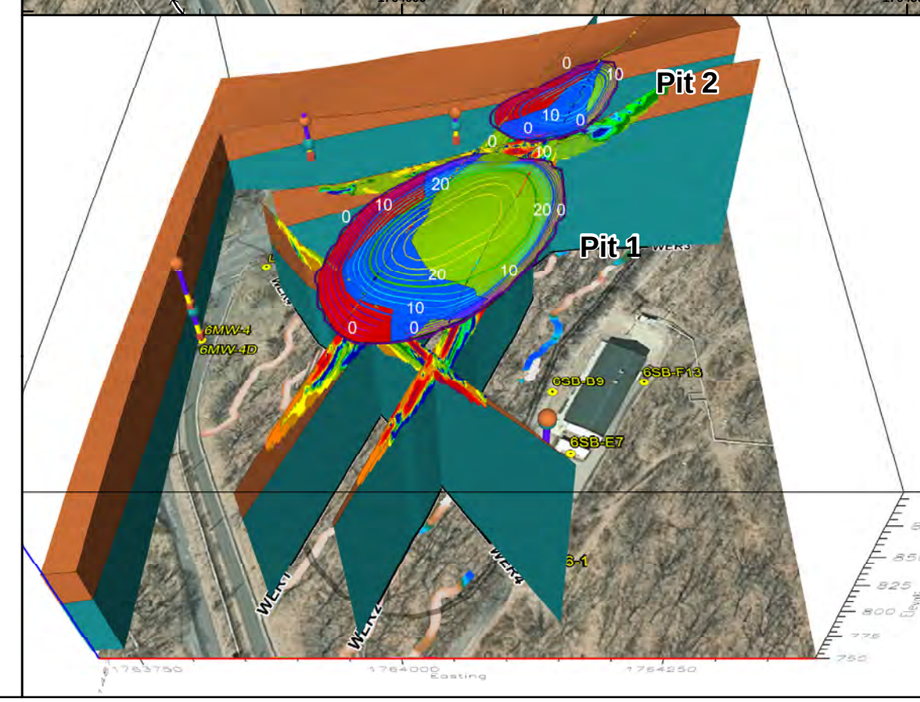












Legend

Map View

- Well Locations
- Resistivity Transect
- Fenceline
- Depth / Thickness (feet)

Depth / Thickness (feet)

- < 10
- 10 - 20
- 20 - 30
- 30 - 40
- > 40

Cross-Sections

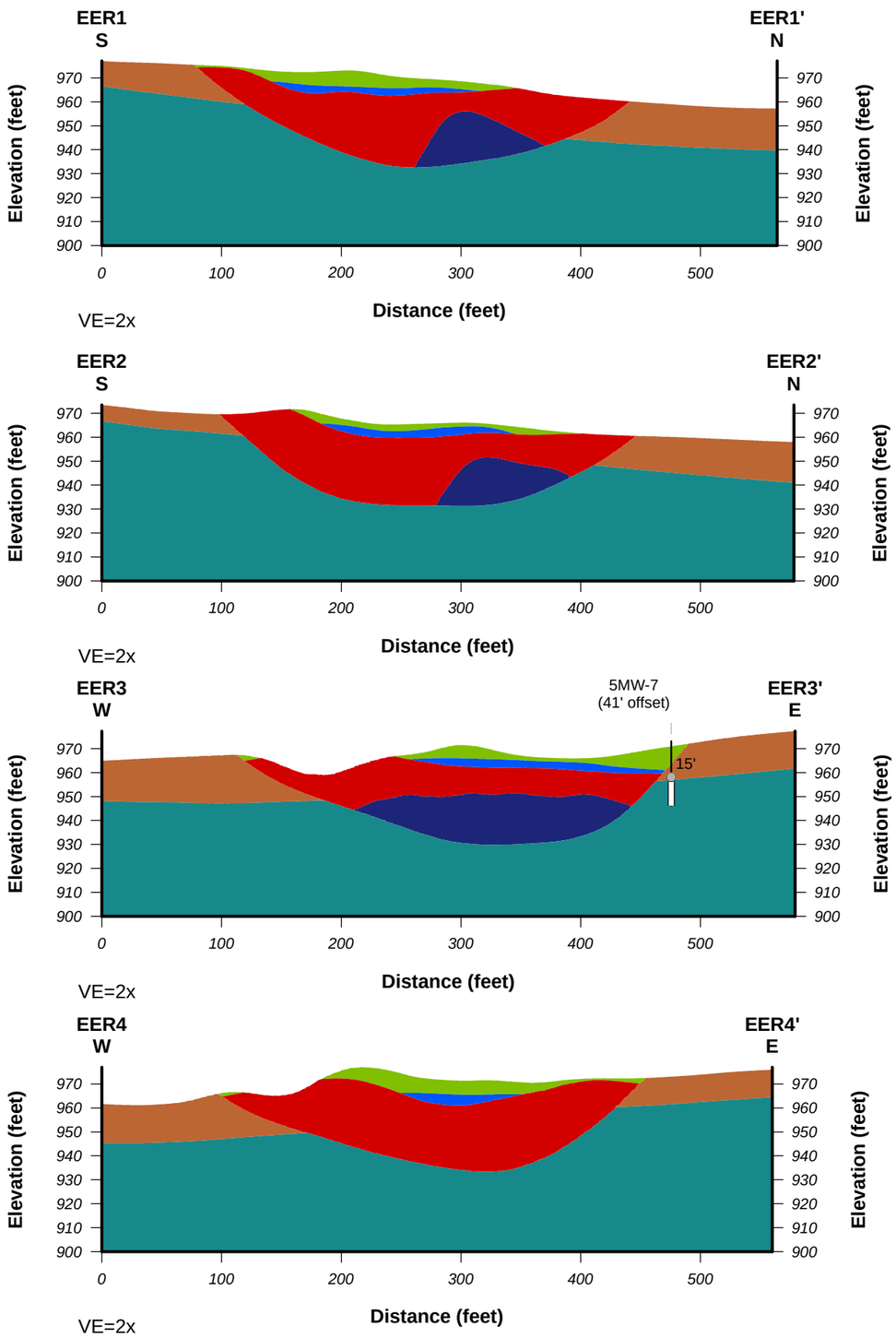
- Bedrock (ft bgs)
- Well Casing
- Well Screen

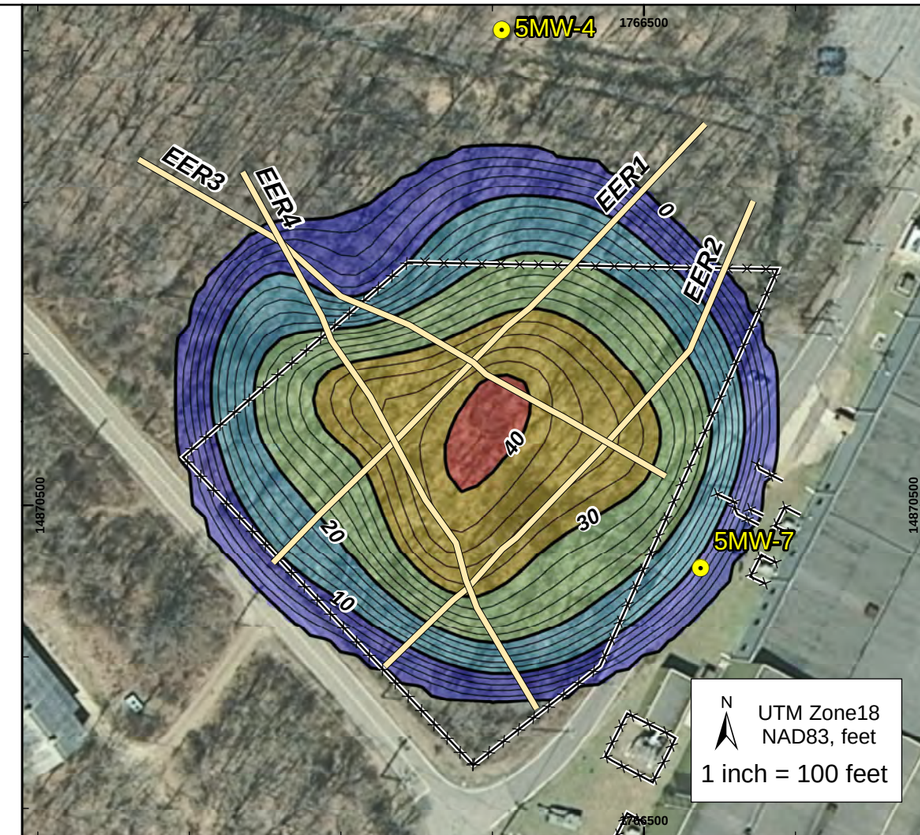
Geologic Zone

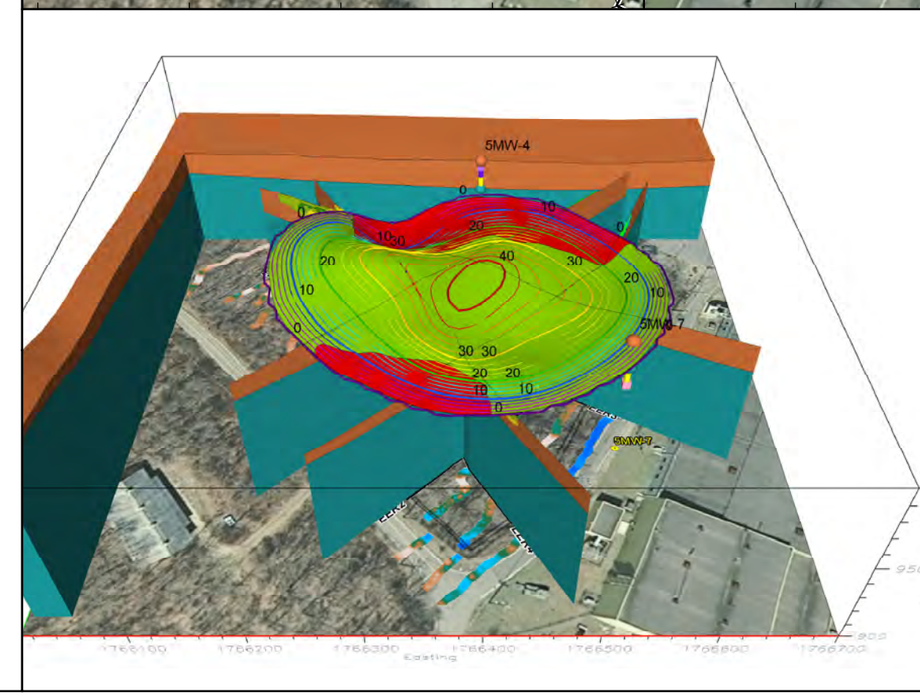
- Fill Material
- Cap Material
- Low Conductivity Debris
- Native Overburden
- Bedrock

Disposal Pit	Zone	Maximum Depth or Thickness (feet)	Volume (1000 yd3)
Pit 1	Total	30	33
	Pit	20	23
	Cap	8	6.5
	Fill	4	3.5
Pit 2	Total	18	5
	Pit	17	4
	Cap	5	0.9
	Fill	4	0.1
Combined	Total	30	38
	Pit	20	27
	Cap	8	7.4
	Fill	4	3.6

Figure 6
Model of Shell burial Grounds West







Legend

Map View

- Well Locations
- Resistivity Transect
- Fenceline
- Depth / Thickness (feet)

Depth / Thickness (feet)

- < 10
- 10 - 20
- 20 - 30
- 30 - 40
- > 40

Cross-Sections

- Bedrock (ft bgs)
- Well Casing
- Well Screen

Geologic Zone

- Fill Material
- Cap Material
- Low Conductivity Debris
- High Conductivity Debris
- Native Overburden
- Bedrock

Pit	Zone	Maximum Depth or Thickness (feet)	Volume (1000 yd3)	Volume (acre-f)
EER	Total	41	80	50
	High Cond	22	10	6
	Low Cond	33	54	33
	Cap	5	3	2
	Fill	7	12	7

Figure 7
Model of Shell burial Grounds East

APPENDIX O

MEC HA WORKSHEETS

1926 EXPLOSION RADIUS MRS

MEC HA Summary Information

Comments

Site ID: 1926 Explosion Radius MRS (PICA-003-R-01)
Date: 2/12/2014

Please identify the single specific area to be assessed in this hazard assessment. From this point forward, all references to "site" or "MRS" refer to the specific area that you have defined.

A. Enter a unique identifier for the site:

PICA-003-R-01

Provide a list of information sources used for this hazard assessment. As you are completing the worksheets, use the "Select Ref(s)" buttons at the ends of each subsection to select the applicable information sources from the list below.

Ref. No.	Title (include version, publication date)
1	Final Remedial Investigation Report (2014)
2	Final Site Specific Final Report (2014)
3	Final Engineering Evaluation/Cost Analysis Report (2008)
4	Final Site Inspection Report (2008)
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B. Briefly describe the site:

1. Area (include units): 1544 acres
2. Past munitions-related use:

Safety Buffer Areas

The primary source of the munitions at the MRS is from an explosion that dispersed items in a one mile radius around the explosion center. The MEC HA does not have past use category for this scenario; however, munitions were deposited in a manner similar to "kick-outs" associated with OB/OD ranges so "Safety Buffer Areas" was selected as the past munitions-related use.

3. Current land-use activities (list all that occur):

Manufacturing, storage, testing, R&D, administration, housing, parking lots, recreation, and undeveloped.

4. Are changes to the future land-use planned? No
5. What is the basis for the site boundaries?

Radius associated with a series of explosions at a storage magazine that is further defined by the installation boundary.

6. How certain are the site boundaries?

The radius for which munitions were spread as a result of the explosions is speculative based on historical information. The installation boundary is definitive.

Reference(s) for Part B:

Final Remedial Investigation Report (2014) Select Ref(s)

C. Historical Clearances

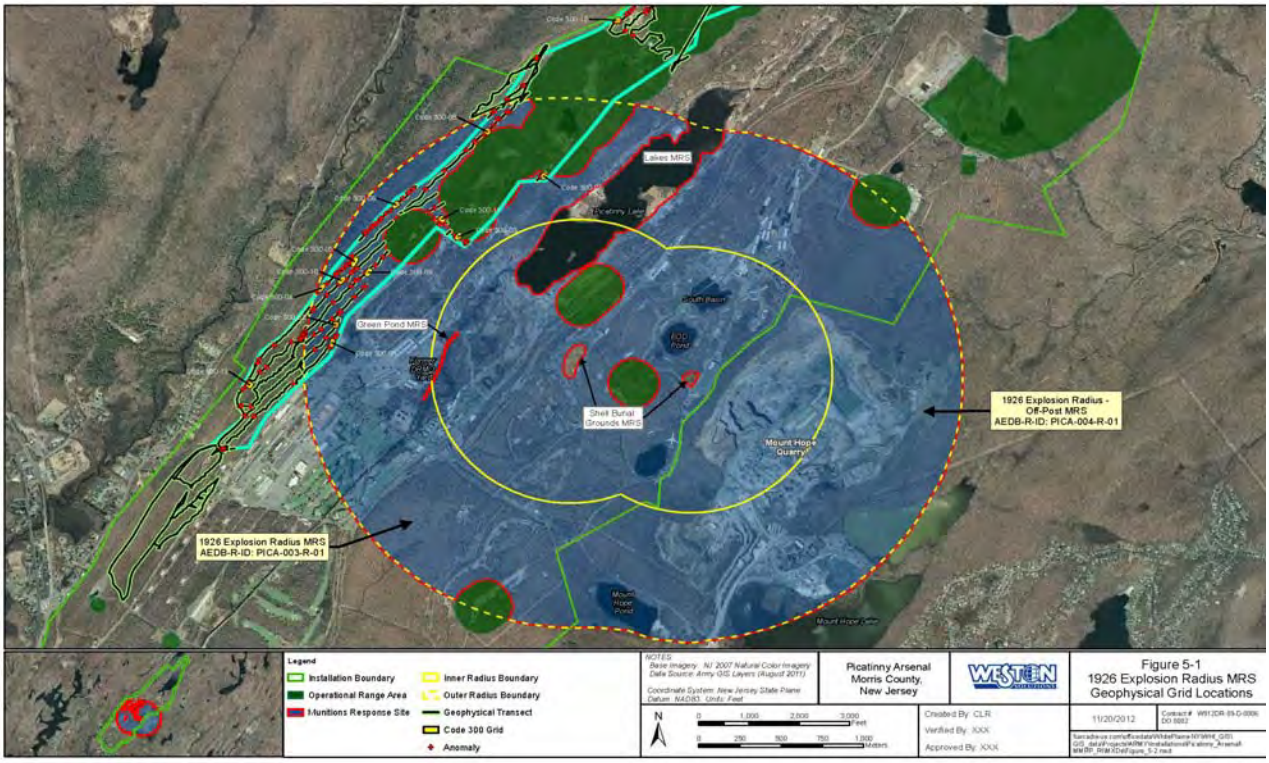
1. Have there been any historical clearances at the site? Yes, subsurface clearance
2. If a clearance occurred:
   a. What year was the clearance performed? 2008
   b. Provide a description of the clearance activity (e.g., extent, depth, amount of munitions-related items removed, types and sizes of removed items, and whether metal detectors were used):

2008 - EE/CA; 71 acres over 6 areas; depth to detection (approximately 4 feet); 45 MEC items found; MEC removed included MK 13 primer, MK 10 base ignition fuze, 3-inch MK 3 MOD 7 common projectile, 6-inch MK 20 MOD 0 common projectile, 5-inch MK 15 MOD 12 common projectile, MK 3 base detonating (BD) fuze, No. 45 PDAI fuze, Practice BLU 36, T46E4 bomb adapter booster

Reference(s) for Part C:

Final Remedial Investigation Report (2014) Select Ref(s)

D. Attach maps of the site below (select 'Insert/Picture' on the menu bar.)



Site ID: **1926 Explosion Radius MRS (PICA-003-R-01)**
Date: **2/12/2014**

Cased Munitions Information

Item No.	Munition Type (e.g., mortar, projectile, etc.)	Munition Size	Munition Size Units	Mark/ Model	Energetic Material Type	Is Munition Fuzed?	Fuzing Type	Fuze Condition	Minimum Depth for Munition (ft)	Location of Munitions	Comments (include rationale for munitions that are "subsurface only")
1	Fuzes	0	Fuze (N/A)	BD Fuze, MK2	High Explosive	UNK	Impact	UNK	0.25	Subsurface Only	No fuzes found on ground surface.
2	Fuzes	0	Fuze (N/A)	MK1, Point Detonating	High Explosive	UNK	UNK	UNK	0.33	Subsurface Only	All items found in subsurface.
3	Artillery	6	inches	Naval Projectile (MK20 or MK24 HC)	High Explosive	UNK	UNK	UNK	0	Surface and Subsurface	Single item found on ground surface.
4	Artillery	37	mm	Projectile	High Explosive	UNK	UNK	UNK	0.25	Subsurface Only	All items found in subsurface.
5	Artillery	5	inches	Armor Piercing Projectile	High Explosive	UNK	UNK	UNK	0	Surface and Subsurface	Single item found on ground surface.
6	Artillery	8	inches	Projectile	High Explosive	UNK	Impact	Unarmed	1	Subsurface Only	All items found in subsurface.
7											
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17											
18											
19											
20											

Reference(s) for table above:
Final Remedial Investigation Report (2014)
Final Site Specific Final Report (2014)

Select Ref(s)

Bulk Explosive Information

Item No.	Explosive Type	Comments
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Reference(s) for table above:

Select Ref(s)

Site ID: **1926 Explosion Radius MRS (PICA-003-R-01)**
Date: **2/12/2014**

Activities Currently Occurring at the Site

Activity No.	Activity	Number of people per year who participate in the activity	Number of hours per year a single person spends on the activity	Potential Contact Time (receptor hours/year)	Maximum intrusive depth (ft)	Comments
1	Employees of PTA and Tenants (e.g., manufacturing, storage, testing, R&D, administration, housing, recreation, etc.)	3,900	2,040	**7,956,000**	0	PTA employs approximately 3,900 personnel; Yearly hours based on full time employee equivalent; Intrusive depth assumed to be 0 ft as no intrusive activities are anticipated
2	Residential	750	4,368	**3,276,000**	1.5	Approximately 750 people reside on PTA, Yearly hours based on 12 hrs/day; Intrusive depth assumes nominal household activities (e.g., gardening, swing sets, flag poles, etc.)
3	Construction	500	1,020	**510,000**	6	Anticipated construction of buildings, utilities, and roads; Yearly hours based on the equivalent of one half a full time employee; Maximum intrusive depth for construction assumed to be 6 ft
4						
5						
6						
7						
8						
9						
10						
11						
12						
			Total Potential Contact Time (receptor hrs/yr):	**11,742,000**		
			Maximum intrusive depth at site (ft):		**6**	

Reference(s) for table above:

Select Ref(s)

Final Remedial Investigation Report (2014)

Site ID: **1926 Explosion Radius MRS (PICA-003-R-01)**

Date: **2/12/2014**

Energetic Material Type Input Factor Categories

The following table is used to determine scores associated with the energetic materials. Materials are listed in order from most hazardous to least hazardous.

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
High Explosive and Low Explosive Filler in Fragmenting Rounds	100	100	100
White Phosphorus	70	70	70
Pyrotechnic	60	60	60
Propellant	50	50	50
Spotting Charge	40	40	40
Incendiary	30	30	30

The most hazardous type of energetic material listed in the 'Munitions, Bulk Explosive Info' Worksheet falls under the category 'High Explosive and Low Explosive Filler in Fragmenting Rounds'.

	Score
Baseline Conditions:	**100**
Surface Cleanup:	**100**
Subsurface Cleanup:	**100**

Comments

Location of Additional Human Receptors Input Factor Categories

1. What is the Explosive Safety Quantity Distance (ESQD) from the Explosive Siting Plan or the Explosive Safety Submission for the MRS? 403 feet

2. Are there currently any features or facilities where people may congregate within the MRS, or within the ESQD arc? Yes

3. Please describe the facility or feature.

Manufacturing, storage, testing, R&D, administration, housing, parking lots, recreation, and undeveloped.

MEC Item(s) used to calculate the ESQD for current use activities

Select MEC(s)

Item #1. Artillery (6inches, High Explosive)

The following table is used to determine scores associated with the location of additional human receptors (current use activities):

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Inside the MRS or inside the ESQD arc	30	30	30
Outside of the ESQD arc	0	0	0

4. Current use activities are 'Inside the MRS or inside the ESQD arc', based on Question 2.' ***Score***

Baseline Conditions:	**30**
Surface Cleanup:	**30**
Subsurface Cleanup:	**30**

Site Accessibility Input Factor Categories

The following table is used to determine scores associated with site accessibility:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Full Accessibility	No barriers to entry, including signage but no fencing	80	80	80
Moderate Accessibility	Some barriers to entry, such as barbed wire fencing or rough terrain	55	55	55
Limited Accessibility	Significant barriers to entry, such as unguarded chain link fence or requirements for special transportation to reach the site	15	15	15
Very Limited Accessibility	A site with guarded chain link fence or terrain that requires special equipment and skills (e.g., rock climbing) to access	5	5	5

Current Use Activities ***Score***

Select the category that best describes the site accessibility under the current use scenario:

Full Accessibility

Baseline Conditions:	**80**
Surface Cleanup:	**80**
Subsurface Cleanup:	**80**

Potential Contact Hours Input Factor Categories

The following table is used to determine scores associated with the total potential contact time:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Many Hours	≥1,000,000 receptor-hrs/yr	120	90	30
Some Hours	100,000 to 999,999 receptor hrs/yr	70	50	20
Few Hours	10,000 to 99,999 receptor-hrs/yr	40	20	10
Very Few Hours	<10,000 receptor-hrs/yr	15	10	5

Current Use Activities:

Input factors are only determined for baseline conditions for current use activities. Based on the 'Current and Future Activities' Worksheet, the Total Potential Contact Time is: **11,742,000** receptor hrs/yr
Based on the table above, this corresponds to a input factor score for baseline conditions of: **120** Score

Amount of MEC Input Factor Categories

The following table is used to determine scores associated with the Amount of MEC:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Target Area	Areas at which munitions fire was directed	180	120	30
OB/OD Area	Sites where munitions were disposed of by open burn or open detonation methods. This category refers to the core activity area of an OB/OD area. See the "Safety Buffer Areas" category for safety fans and kick-outs.	180	110	30
Function Test Range	Areas where the serviceability of stored munitions or weapons systems are tested. Testing may include components, partial functioning or complete functioning of stockpile or developmental items.	165	90	25
Burial Pit	The location of a burial of large quantities of MEC items.	140	140	10
Maneuver Areas	Areas used for conducting military exercises in a simulated conflict area or war zone	115	15	5
Firing Points	The location from which a projectile, grenade, ground signal, rocket, guided missile, or other device is to be ignited, propelled, or released.	75	10	5
Safety Buffer Areas	Areas outside of target areas, test ranges, or OB/OD areas that were designed to act as a safety zone to contain munitions that do not hit targets or to contain kick-outs from OB/OD areas.	30	10	5
Storage	Any facility used for the storage of military munitions, such as earth-covered magazines, above-ground magazines, and open-air storage areas.	25	10	5
Explosive-Related Industrial Facility	Former munitions manufacturing or demilitarization sites and TNT production plants	20	10	5

Select the category that best describes the ***most hazardous*** amount of MEC: ***Score***

Safety Buffer Areas

The primary source of the munitions at the MRS is from an explosion that dispersed items in a one mile radius around the explosion center. The MEC HA does not have past use category for this scenario; however, munitions were deposited in a manner similar to "kick-outs" associated with OB/OD ranges so "Safety Buffer Areas" was selected as the past munitions-related use.

Baseline Conditions:	**30**
Surface Cleanup:	**10**
Subsurface Cleanup:	**5**

Minimum MEC Depth Relative to the Maximum Intrusive Depth Input Factor Categories

Current Use Activities

The shallowest minimum MEC depth, based on the 'Cased Munitions Information' Worksheet: **0** ft

The deepest intrusive depth: **6** ft

The table below is used to determine scores associated with the minimum MEC depth relative to the maximum intrusive depth:

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.	240	150	95
Baseline Condition: MEC located surface and subsurface, After Cleanup: Intrusive depth does not overlap with subsurface MEC.	240	50	25
Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth overlaps with minimum MEC depth.	150	N/A	95
Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth does not overlap with minimum MEC depth.	50	N/A	25

Because the shallowest minimum MEC depth is less than or equal to the deepest intrusive depth, the intrusive depth will overlap after cleanup. MECs are located at both the surface and subsurface, based on the 'Munitions, Bulk Explosive Info' Worksheet. Therefore, the category for this input factor is 'Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.' For 'Current Use Activities', only Baseline Conditions are considered.

240 ***Score***

Migration Potential Input Factor Categories

Is there any physical or historical evidence that indicates it is possible for natural physical forces in the area (e.g., frost heave, erosion) to expose subsurface MEC items, or move surface or subsurface MEC items?

Yes

If "yes", describe the nature of natural forces. Indicate key areas of potential migration (e.g., overland water flow) on a map as appropriate (attach a map to the bottom of this sheet, or as a separate worksheet).

Frost Heave and Erosion

The following table is used to determine scores associated with the migration potential:

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Possible	30	30	10
Unlikely	10	10	10

Based on the question above, migration potential is 'Possible.'

	Score
Baseline Conditions:	**30**
Surface Cleanup:	**30**
Subsurface Cleanup:	**10**

Reference(s) for above information:

Final Remedial Investigation Report (2014)

Select Ref(s)

MEC Classification Input Factor Categories

Cased munitions information has been inputed into the 'Munitions, Bulk Explosive Info' Worksheet; therefore, bulk explosives do not comprise all MECs for this MRS.

The 'Amount of MEC' category is 'Safety Buffer Areas'. It cannot be automatically assumed that the MEC items from this category are DMM. Therefore, the conservative assumption is that the MEC items in this MRS are UXO.

Has a technical assessment shown that MEC in the OB/OD Area is DMM?

Are any of the munitions listed in the 'Munitions, Bulk Explosive Info' Worksheet: Yes

- Submunitions
- Rifle-propelled 40mm projectiles (often called 40mm grenades)
- Munitions with white phosphorus filler
- High explosive anti-tank (HEAT) rounds
- Hand grenades
- Fuzes
- Mortars

None of the items listed in the 'Munitions, Bulk Explosive Info' Worksheet were identified as 'fuzed'.

The following table is used to determine scores associated with MEC classification categories:

UXO Special Case	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
UXO Special Case	180	180	180
UXO	110	110	110
Fuzed DMM Special Case	105	105	105
Fuzed DMM	55	55	55
Unfuzed DMM	45	45	45
Bulk Explosives	45	45	45

Based on your answers above, the MEC classification is 'UXO Special Case'.

	Score
Baseline Conditions:	**180**
Surface Cleanup:	**180**
Subsurface Cleanup:	**180**

MEC Size Input Factor Categories

The following table is used to determine scores associated with MEC Size:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Small	Any munitions (from the 'Munitions, Bulk Explosive Info' Worksheet) weigh less than 90 lbs; small enough for a receptor to be able to move and initiate a detonation	40	40	40
Large	All munitions weigh more than 90 lbs; too large to move without equipment	0	0	0

Based on the definitions above and the types of munitions at the site (see 'Munitions, Bulk Explosive Info' Worksheet), the MEC Size Input Factor is: Small

	Score
Baseline Conditions:	**40**
Surface Cleanup:	**40**
Subsurface Cleanup:	**40**

Scoring Summary

Site ID:	1926 Explosion Radius MRS (PIC	a. Scoring Summary for Current Use Activities	
Date:	2/12/2014	Response Action Cleanup:	No Response Action
Input Factor		**Input Factor Category**	**Score**
I. Energetic Material Type		High Explosive and Low Explosive Filler in Fragmenting Rounds	100
II. Location of Additional Human Receptors		Inside the MRS or inside the ESQD arc	30
III. Site Accessibility		Full Accessibility	80
IV. Potential Contact Hours		≥1,000,000 receptor-hrs/yr	120
V. Amount of MEC		Safety Buffer Areas	30
VI. Minimum MEC Depth Relative to Maximum Intrusive Depth		Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.	240
VII. Migration Potential		Possible	30
VIII. MEC Classification		UXO Special Case	180
IX. MEC Size		Small	40
		Total Score	**850**
		Hazard Level Category	**1**

MEC HA Hazard Level Determination			
Site ID:	1926 Explosion Radius MRS (PICA-003-R-01)		
Date:	2/12/2014		
		Hazard Level Category	Score
a. Current Use Activities		1	850
b. Future Use Activities		4	380
c. Response Alternative 1:			
d. Response Alternative 2:			
e. Response Alternative 3:			
f. Response Alternative 4:			
g. Response Alternative 5:			
h. Response Alternative 6:			

Characteristics of the MRS	
Is critical infrastructure located within the MRS or within the ESQD arc?	Yes
Are cultural resources located within the MRS or within the ESQD arc?	Yes
Are significant ecological resources located within the MRS or within the ESQD arc?	Yes

1926 EXPLOSION RADIUS – OFF-POST MRS

MEC HA Summary Information

Comments

Site ID: 1926 Explosion Radius - Off-Post MRS (PICA-004-R-01)
Date: 2/12/2013

Please identify the single specific area to be assessed in this hazard assessment. From this point forward, all references to "site" or "MRS" refer to the specific area that you have defined.

A. Enter a unique identifier for the site:

PICA-004-R-01

Provide a list of information sources used for this hazard assessment. As you are completing the worksheets, use the "Select Ref(s)" buttons at the ends of each subsection to select the applicable information sources from the list below.

Ref. No.	Title (include version, publication date)
1	Final Remedial Investigation Report (2014)
2	Final Time Critical Removal Action III (2009)
3	Final Time Critical Removal Action II (2008)
4	Final Site Inspection Report (2008)
5	Final Time Critical Removal Action I (2008)
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B. Briefly describe the site:

1. Area (include units): 836 acres
2. Past munitions-related use:

Safety Buffer Areas

The source of the munitions at the MRS is from an explosion that dispersed items in a one mile radius around the explosion center. The MEC HA does not have past use category for this scenario; however, munitions were deposited in a manner similar to "kick-outs" associated with OB/OD ranges so "Safety Buffer Areas" was selected as the past munitions-related use.

3. Current land-use activities (list all that occur):

Commercial, industrial, and undeveloped.

4. Are changes to the future land-use planned? No
5. What is the basis for the site boundaries?

Radius associated with a series of explosions at a storage magazine that is further defined by the installation boundary. This portion of the radius is off the installation.

6. How certain are the site boundaries?

The radius for which munitions were spread as a result of the explosions is speculative based on historical information. The installation boundary is definitive.

Reference(s) for Part B: Select Ref(s)

Final Remedial Investigation Report (2014)

C. Historical Clearances

1. Have there been any historical clearances at the site? Yes, subsurface clearance
2. If a clearance occurred:

a. What year was the clearance performed? 2006 through 2011

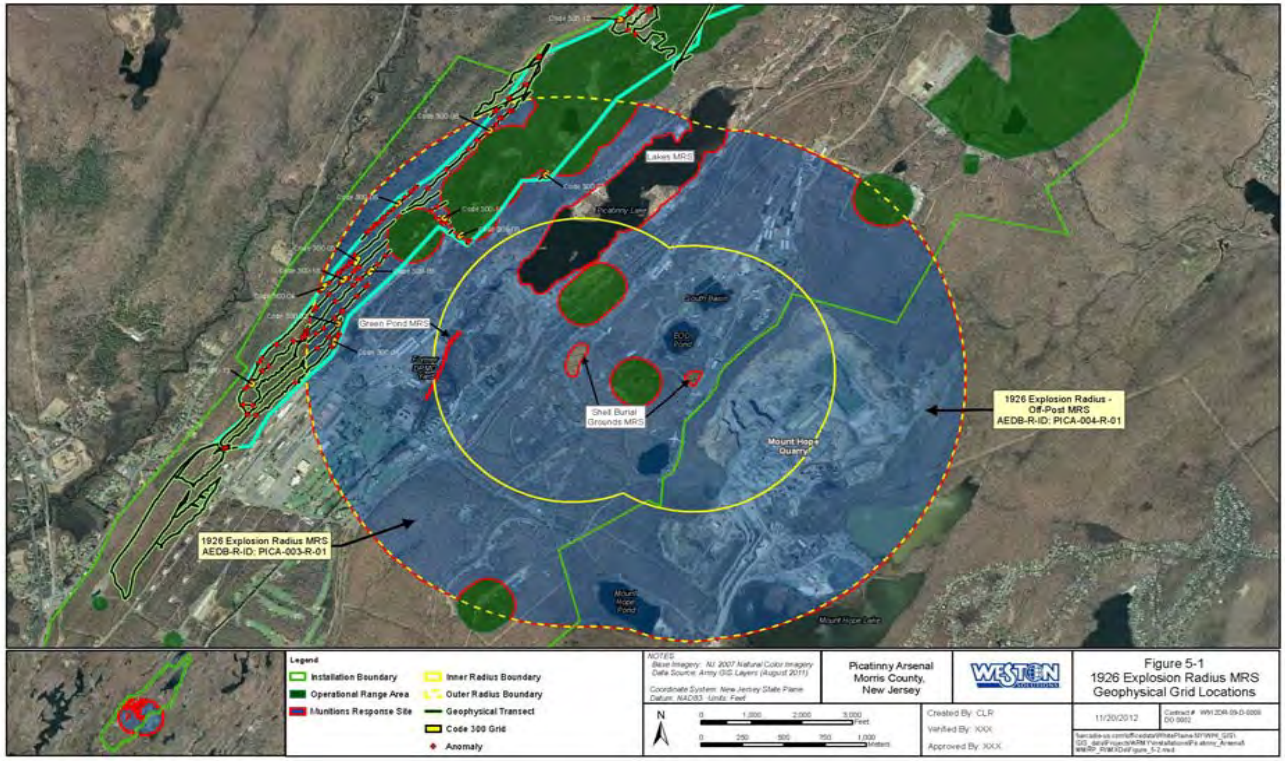
b. Provide a description of the clearance activity (e.g., extent, depth, amount of munitions-related items removed, types and sizes of removed items, and whether metal detectors were used):

2006-2007; TCRA I - 22.6 acres; depth to detection approximately 4 feet; 25 MEC and 3,775 pounds of MD removed. 2008; TCRA II - 22 acres; depth to detection approximately 4 feet; approximately 1,580 pounds of MD removed; no MEC found. 2009-2011; TCRA III - 4.3 acres; depth to detection approximately 4 feet; 39 MEC and approximately 6,400 pounds of MD removed.

Reference(s) for Part C: Select Ref(s)

Final Remedial Investigation Report (2014)

D. Attach maps of the site below (select 'Insert/Picture' on the menu bar.)



Site ID: **1926 Explosion Radius - Off-Post MRS (PICA-004-R-01)**
Date: **2/12/2013**

Cased Munitions Information

Item No.	Munition Type (e.g., mortar, projectile, etc.)	Munition Size	Munition Size Units	Mark/ Model	Energetic Material Type	Is Munition Fuzed?	Fuzing Type	Fuze Condition	Minimum Depth for Munition (ft)	Location of Munitions	Comments (include rationale for munitions that are "subsurface only")
1	Artillery	5	inches	Common projectiles	High Explosive	UNK	UNK	UNK	0.25	Subsurface Only	TCRA I and TCRA III; no items listed as being found on the ground surface
2	Artillery	6	inches	Common projectiles	High Explosive	UNK	UNK	UNK	0.083	Subsurface Only	TCRA I and TCRA III; no items listed as being found on the ground surface
3	Artillery	4	inches	Common projectiles	High Explosive	UNK	UNK	UNK	0.5	Subsurface Only	TCRA III; specific depth not available but items found within 2 ft below ground surface
4	Fuzes	1	lb	BD Fuze, MK2	High Explosive	UNK	UNK	UNK	0.5	Subsurface Only	TCRA III; specific depth not available but items found within 2 ft below ground surface
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Reference(s) for table above:
Final Remedial Investigation Report (2014)
Final Engineering Evaluation/Cost Analysis Report (2008)

Select Ref(s)

Bulk Explosive Information

Item No.	Explosive Type	Comments
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Reference(s) for table above:

Select Ref(s)

Site ID: **1926 Explosion Radius - Off-Post MRS (PICA-004-R-01)**
Date: **2/12/2013**

Activities Currently Occurring at the Site

Activity No.	Activity	Number of people per year who participate in the activity	Number of hours per year a single person spends on the activity	Potential Contact Time (receptor hours/year)	Maximum intrusive depth (ft)	Comments
1	Industrial (Mount Hope Quarry)	50	2,040	**102,000**	6	Assumes 50 full time workers; actual depth is not known however a maximum depth of six feet is used; increasing the depth further will not affect the MEC HA score.
2	Recreational	200	20	**4,000**	1.5	Assumes 200 recreational users (hunting and camping) at 20 hours per user; maximum depth of 1.5 feet is based on conservative stake depth used during camping activities
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
			Total Potential Contact Time (receptor hrs/yr):	**106,000**		
			Maximum intrusive depth at site (ft):		**6**	

Reference(s) for table above:

Final Remedial Investigation Report (2014)

Select Ref(s)

Site ID: **1926 Explosion Radius - Off-Post MRS (PICA-004-R-01)**

Date: **2/12/2013**

Energetic Material Type Input Factor Categories

The following table is used to determine scores associated with the energetic materials. Materials are listed in order from most hazardous to least hazardous.

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
High Explosive and Low Explosive Filler in Fragmenting Rounds	100	100	100
White Phosphorus	70	70	70
Pyrotechnic	60	60	60
Propellant	50	50	50
Spotting Charge	40	40	40
Incendiary	30	30	30

The most hazardous type of energetic material listed in the 'Munitions, Bulk Explosive Info' Worksheet falls under the category 'High Explosive and Low Explosive Filler in Fragmenting Rounds'.

	Score
Baseline Conditions:	**100**
Surface Cleanup:	**100**
Subsurface Cleanup:	**100**

Comments

Location of Additional Human Receptors Input Factor Categories

1. What is the Explosive Safety Quantity Distance (ESQD) from the Explosive Siting Plan or the Explosive Safety Submission for the MRS? 403 feet

2. Are there currently any features or facilities where people may congregate within the MRS, or within the ESQD arc? Yes

3. Please describe the facility or feature.

Manufacturing, storage, testing, R&D, administration, housing, parking lots, recreation, and undeveloped.

MEC Item(s) used to calculate the ESQD for current use activities

Select MEC(s)

Item #3. Artillery (6inches, High Explosive)

The following table is used to determine scores associated with the location of additional human receptors (current use activities):

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Inside the MRS or inside the ESQD arc	30	30	30
Outside of the ESQD arc	0	0	0

4. Current use activities are 'Inside the MRS or inside the ESQD arc', based on Question 2.' ***Score***

Baseline Conditions:	**30**
Surface Cleanup:	**30**
Subsurface Cleanup:	**30**

Site Accessibility Input Factor Categories

The following table is used to determine scores associated with site accessibility:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Full Accessibility	No barriers to entry, including signage but no fencing	80	80	80
Moderate Accessibility	Some barriers to entry, such as barbed wire fencing or rough terrain	55	55	55
Limited Accessibility	Significant barriers to entry, such as unguarded chain link fence or requirements for special transportation to reach the site	15	15	15
Very Limited Accessibility	A site with guarded chain link fence or terrain that requires special equipment and skills (e.g., rock climbing) to access	5	5	5

Current Use Activities ***Score***

Select the category that best describes the site accessibility under the current use scenario:

Full Accessibility

Baseline Conditions:	**80**
Surface Cleanup:	**80**
Subsurface Cleanup:	**80**

Potential Contact Hours Input Factor Categories

The following table is used to determine scores associated with the total potential contact time:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Many Hours	≥1,000,000 receptor-hrs/yr	120	90	30
Some Hours	100,000 to 999,999 receptor hrs/yr	70	50	20
Few Hours	10,000 to 99,999 receptor-hrs/yr	40	20	10
Very Few Hours	<10,000 receptor-hrs/yr	15	10	5

Current Use Activities:

Input factors are only determined for baseline conditions for current use activities. Based on the 'Current and Future Activities' Worksheet, the Total Potential Contact Time is: **106,000** receptor hrs/yr

Based on the table above, this corresponds to a input factor score for baseline conditions of: **70** Score

Amount of MEC Input Factor Categories

The following table is used to determine scores associated with the Amount of MEC:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Target Area	Areas at which munitions fire was directed	180	120	30
OB/OD Area	Sites where munitions were disposed of by open burn or open detonation methods. This category refers to the core activity area of an OB/OD area. See the "Safety Buffer Areas" category for safety fans and kick-outs.	180	110	30
Function Test Range	Areas where the serviceability of stored munitions or weapons systems are tested. Testing may include components, partial functioning or complete functioning of stockpile or developmental items.	165	90	25
Burial Pit	The location of a burial of large quantities of MEC items.	140	140	10
Maneuver Areas	Areas used for conducting military exercises in a simulated conflict area or war zone	115	15	5
Firing Points	The location from which a projectile, grenade, ground signal, rocket, guided missile, or other device is to be ignited, propelled, or released.	75	10	5
Safety Buffer Areas	Areas outside of target areas, test ranges, or OB/OD areas that were designed to act as a safety zone to contain munitions that do not hit targets or to contain kick-outs from OB/OD areas.	30	10	5
Storage	Any facility used for the storage of military munitions, such as earth-covered magazines, above-ground magazines, and open-air storage areas.	25	10	5
Explosive-Related Industrial Facility	Former munitions manufacturing or demilitarization sites and TNT production plants	20	10	5

Select the category that best describes the ***most hazardous*** amount of MEC: ***Score***

Safety Buffer Areas

Baseline Conditions:	**30**
Surface Cleanup:	**10**
Subsurface Cleanup:	**5**

The source of the munitions at the MRS is from an explosion that dispersed items in a one mile radius around the explosion center. The MEC HA does not have past use category for this scenario; however, munitions were deposited in a manner similar to "kick-outs" associated with OB/OD ranges so "Safety Buffer Areas" was selected as the past munitions-related use.

Minimum MEC Depth Relative to the Maximum Intrusive Depth Input Factor Categories

Current Use Activities

The shallowest minimum MEC depth, based on the 'Cased Munitions Information' Worksheet: **0.083** ft

The deepest intrusive depth: **6** ft

The table below is used to determine scores associated with the minimum MEC depth relative to the maximum intrusive depth:

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.	240	150	95
Baseline Condition: MEC located surface and subsurface, After Cleanup: Intrusive depth does not overlap with subsurface MEC.	240	50	25
Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth overlaps with minimum MEC depth.	150	N/A	95
Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth does not overlap with minimum MEC depth.	50	N/A	25

Because the shallowest minimum MEC depth is less than or equal to the deepest intrusive depth, the intrusive depth will overlap after cleanup. MECs are located only subsurface, based on the 'Munitions, Bulk Explosive Info' Worksheet. Therefore, the category for this input factor is 'Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth overlaps with minimum MEC depth.' For 'Current Use Activities', only Baseline Conditions are considered.

150 ***Score***

Migration Potential Input Factor Categories

Is there any physical or historical evidence that indicates it is possible for natural physical forces in the area (e.g., frost heave, erosion) to expose subsurface MEC items, or move surface or subsurface MEC items? Yes

If "yes", describe the nature of natural forces. Indicate key areas of potential migration (e.g., overland water flow) on a map as appropriate (attach a map to the bottom of this sheet, or as a separate worksheet).

Frost Heave and Erosion

The following table is used to determine scores associated with the migration potential:

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Possible	30	30	10
Unlikely	10	10	10

Based on the question above, migration potential is 'Possible.'

	Score
Baseline Conditions:	**30**
Surface Cleanup:	**30**
Subsurface Cleanup:	**10**

Reference(s) for above information:

Final Remedial Investigation Report (2014)

Select Ref(s)

MEC Classification Input Factor Categories

Cased munitions information has been inputed into the 'Munitions, Bulk Explosive Info' Worksheet; therefore, bulk explosives do not comprise all MECs for this MRS.

The 'Amount of MEC' category is 'Safety Buffer Areas'. It cannot be automatically assumed that the MEC items from this category are DMM. Therefore, the conservative assumption is that the MEC items in this MRS are UXO.

Has a technical assessment shown that MEC in the OB/OD Area is DMM?

Are any of the munitions listed in the 'Munitions, Bulk Explosive Info' Worksheet: Yes

- Submunitions
- Rifle-propelled 40mm projectiles (often called 40mm grenades)
- Munitions with white phosphorus filler
- High explosive anti-tank (HEAT) rounds
- Hand grenades
- Fuzes
- Mortars

None of the items listed in the 'Munitions, Bulk Explosive Info' Worksheet were identified as 'fuzed'.

The following table is used to determine scores associated with MEC classification categories:

UXO Special Case	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
UXO Special Case	180	180	180
UXO	110	110	110
Fuzed DMM Special Case	105	105	105
Fuzed DMM	55	55	55
Unfuzed DMM	45	45	45
Bulk Explosives	45	45	45

Based on your answers above, the MEC classification is 'UXO Special Case'.

	Score
Baseline Conditions:	**180**
Surface Cleanup:	**180**
Subsurface Cleanup:	**180**

MEC Size Input Factor Categories

The following table is used to determine scores associated with MEC Size:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Small	Any munitions (from the 'Munitions, Bulk Explosive Info' Worksheet) weigh less than 90 lbs; small enough for a receptor to be able to move and initiate a detonation	40	40	40
Large	All munitions weigh more than 90 lbs; too large to move without equipment	0	0	0

Based on the definitions above and the types of munitions at the site (see 'Munitions, Bulk Explosive Info' Worksheet), the MEC Size Input Factor is: Small

	Score
Baseline Conditions:	**40**
Surface Cleanup:	**40**
Subsurface Cleanup:	**40**

Scoring Summary

Site ID:	1926 Explosion Radius - Off-Post	a. Scoring Summary for Current Use Activities	
Date:	2/12/2013	Response Action Cleanup:	No Response Action
Input Factor		**Input Factor Category**	**Score**
I. Energetic Material Type		High Explosive and Low Explosive Filler in Fragmenting Rounds	100
II. Location of Additional Human Receptors		Inside the MRS or inside the ESQD arc	30
III. Site Accessibility		Full Accessibility	80
IV. Potential Contact Hours		100,000 to 999,999 receptor hrs/yr	70
V. Amount of MEC		Safety Buffer Areas	30
VI. Minimum MEC Depth Relative to Maximum Intrusive Depth		Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth overlaps with minimum MEC depth.	150
VII. Migration Potential		Possible	30
VIII. MEC Classification		UXO Special Case	180
IX. MEC Size		Small	40
		Total Score	**710**
		Hazard Level Category	**3**

MEC HA Hazard Level Determination		
Site ID: Post MRS (PICA-004-R-01)		
Date: 2/12/2013		
	Hazard Level Category	**Score**
a. Current Use Activities	3	710
b. Future Use Activities	4	380
c. Response Alternative 1:		
d. Response Alternative 2:		
e. Response Alternative 3:		
f. Response Alternative 4:		
g. Response Alternative 5:		
h. Response Alternative 6:		

Characteristics of the MRS	
Is critical infrastructure located within the MRS or within the ESQD arc?	Yes
Are cultural resources located within the MRS or within the ESQD arc?	Yes
Are significant ecological resources located within the MRS or within the ESQD arc?	Yes

FUZE AREA MRS

MEC HA Summary Information

Comments

Site ID: Fuze Area
Date: 2/12/2013

Please identify the single specific area to be assessed in this hazard assessment. From this point forward, all references to "site" or "MRS" refer to the specific area that you have defined.

A. Enter a unique identifier for the site:

Fuze Area Decision Unit

Provide a list of information sources used for this hazard assessment. As you are completing the worksheets, use the "Select Ref(s)" buttons at the ends of each subsection to select the applicable information sources from the list below.

Ref. No.	Title (include version, publication date)
1	Final Remedial Investigation Report (2014)
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

B. Briefly describe the site:

1. Area (include units): 1.63 acres
2. Past munitions-related use:

Burial Pit

3. Current land-use activities (list all that occur):

Undeveloped.

4. Are changes to the future land-use planned? No
5. What is the basis for the site boundaries?

High anomaly density relative to the surrounding areas as determined through the RI.

6. How certain are the site boundaries?

Site boundaries are specific based on relatively high anomaly densities delineated using a GPS.

Reference(s) for Part B:

Final Remedial Investigation Report (2014) Select Ref(s)

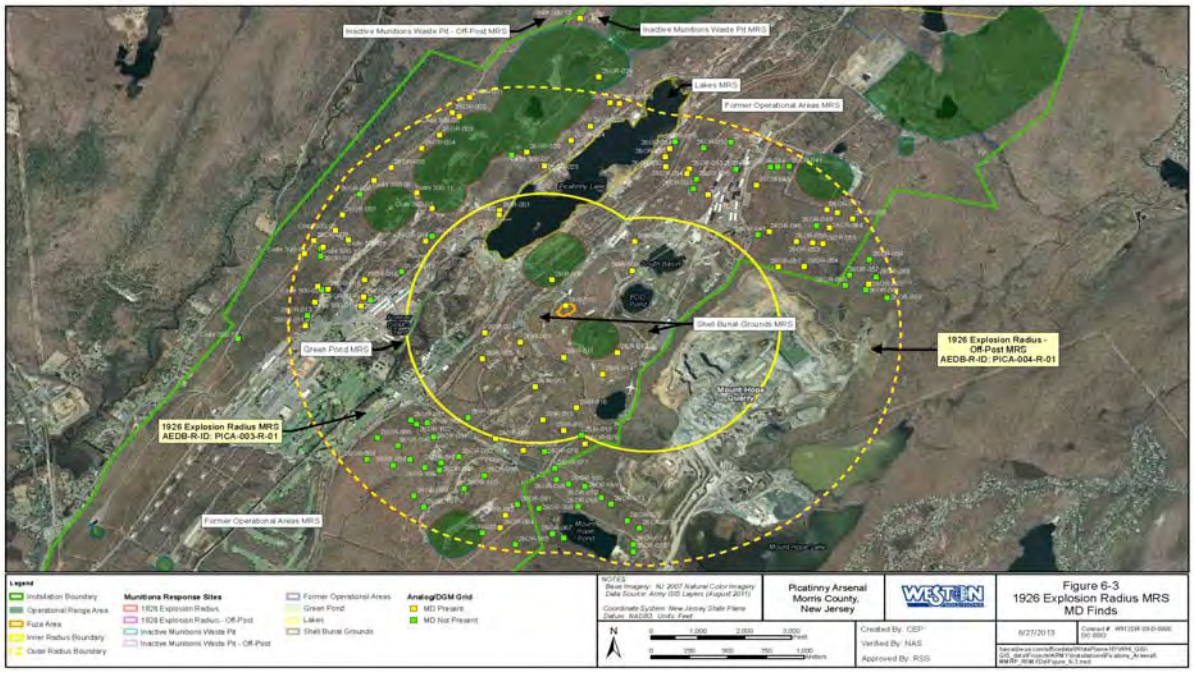
C. Historical Clearances

1. Have there been any historical clearances at the site? No, none
2. If a clearance occurred:
   a. What year was the clearance performed?
   b. Provide a description of the clearance activity (e.g., extent, depth, amount of munitions-related items removed, types and sizes of removed items, and whether metal detectors were used):

Reference(s) for Part C:

Draft Remedial Investigation Report (July 2013) Select Ref(s)

D. Attach maps of the site below (select 'Insert/Picture' on the menu bar.)



Site ID: **Fuze Area**
Date: **2/12/2013**

Cased Munitions Information

Item No.	Munition Type (e.g., mortar, projectile, etc.)	Munition Size	Munition Size Units	Mark/ Model	Energetic Material Type	Is Munition Fuzed?	Fuzing Type	Fuze Condition	Minimum Depth for Munition (ft)	Location of Munitions	Comments (include rationale for munitions that are "subsurface only")
1	Fuzes	1	lb	MK2, BD Fuze	High Explosive	UNK	UNK	UNK	0	Surface and Subsurface	Fuzes found on ground surface.
2	Fuzes	1	lb	MK2, Point Detonating	High Explosive	UNK	UNK	UNK	0	Surface and Subsurface	Fuzes found on ground surface.
3											
4											
5											
6											
7											
8											
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10											
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16											
17											
18											
19											
20											

Reference(s) for table above:

Final Remedial Investigation Report (2014)

Select Ref(s)

Bulk Explosive Information

Item No.	Explosive Type	Comments
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Reference(s) for table above:

Select Ref(s)

Site ID: **Fuze Area**
Date: **2/12/2013**

Activities Currently Occurring at the Site

Activity No.	Activity	Number of people per year who participate in the activity	Number of hours per year a single person spends on the activity	Potential Contact Time (receptor hours/year)	Maximum intrusive depth (ft)	Comments
1	Undeveloped	365	365	**133,225**	0	Fuze area is undeveloped property with no improvements which would warrant receptor access; a conservative estimate assumes one person per day spends one hour in the fuze area; activities would consist of walking through property to access another adjacent property; no intrusive activities anticipated or allowed without PTA approval
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
			Total Potential Contact Time (receptor hrs/yr):	**133,225**		
			Maximum intrusive depth at site (ft):		**0**	

Reference(s) for table above:

Select Ref(s)

Final Remedial Investigation Report (2014)

Site ID: **Fuze Area**

Date: **2/12/2013**

Energetic Material Type Input Factor Categories

The following table is used to determine scores associated with the energetic materials. Materials are listed in order from most hazardous to least hazardous.

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
High Explosive and Low Explosive Filler in Fragmenting Rounds	100	100	100
White Phosphorus	70	70	70
Pyrotechnic	60	60	60
Propellant	50	50	50
Spotting Charge	40	40	40
Incendiary	30	30	30

The most hazardous type of energetic material listed in the 'Munitions, Bulk Explosive Info' Worksheet falls under the category 'High Explosive and Low Explosive Filler in Fragmenting Rounds'.

	Score
Baseline Conditions:	**100**
Surface Cleanup:	**100**
Subsurface Cleanup:	**100**

Comments

Location of Additional Human Receptors Input Factor Categories

1. What is the Explosive Safety Quantity Distance (ESQD) from the Explosive Siting Plan or the Explosive Safety Submission for the MRS? 747 feet

2. Are there currently any features or facilities where people may congregate within the MRS, or within the ESQD arc? Yes

3. Please describe the facility or feature.

Undeveloped

MEC Item(s) used to calculate the ESQD for current use activities

Select MEC(s)

Item #1. Fuzes (1lb, High Explosive)

The following table is used to determine scores associated with the location of additional human receptors (current use activities):

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Inside the MRS or inside the ESQD arc	30	30	30
Outside of the ESQD arc	0	0	0

4. Current use activities are 'Inside the MRS or inside the ESQD arc', based on Question 2.' ***Score***

Baseline Conditions:	**30**
Surface Cleanup:	**30**
Subsurface Cleanup:	**30**

Site Accessibility Input Factor Categories

The following table is used to determine scores associated with site accessibility:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Full Accessibility	No barriers to entry, including signage but no fencing	80	80	80
Moderate Accessibility	Some barriers to entry, such as barbed wire fencing or rough terrain	55	55	55
Limited Accessibility	Significant barriers to entry, such as unguarded chain link fence or requirements for special transportation to reach the site	15	15	15
Very Limited Accessibility	A site with guarded chain link fence or terrain that requires special equipment and skills (e.g., rock climbing) to access	5	5	5

Current Use Activities ***Score***

Select the category that best describes the site accessibility under the current use scenario:

Full Accessibility

Baseline Conditions:	**80**
Surface Cleanup:	**80**
Subsurface Cleanup:	**80**

Potential Contact Hours Input Factor Categories

The following table is used to determine scores associated with the total potential contact time:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Many Hours	≥1,000,000 receptor-hrs/yr	120	90	30
Some Hours	100,000 to 999,999 receptor hrs/yr	70	50	20
Few Hours	10,000 to 99,999 receptor-hrs/yr	40	20	10
Very Few Hours	<10,000 receptor-hrs/yr	15	10	5

Current Use Activities:

Input factors are only determined for baseline conditions for current use activities. Based on the 'Current and Future Activities' Worksheet, the Total Potential Contact Time is: **133,225** receptor hrs/yr
Based on the table above, this corresponds to a input factor score for baseline conditions of: **70** Score

Amount of MEC Input Factor Categories

The following table is used to determine scores associated with the Amount of MEC:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Target Area	Areas at which munitions fire was directed	180	120	30
OB/OD Area	Sites where munitions were disposed of by open burn or open detonation methods. This category refers to the core activity area of an OB/OD area. See the "Safety Buffer Areas" category for safety fans and kick-outs.	180	110	30
Function Test Range	Areas where the serviceability of stored munitions or weapons systems are tested. Testing may include components, partial functioning or complete functioning of stockpile or developmental items.	165	90	25
Burial Pit	The location of a burial of large quantities of MEC items.	140	140	10
Maneuver Areas	Areas used for conducting military exercises in a simulated conflict area or war zone	115	15	5
Firing Points	The location from which a projectile, grenade, ground signal, rocket, guided missile, or other device is to be ignited, propelled, or released.	75	10	5
Safety Buffer Areas	Areas outside of target areas, test ranges, or OB/OD areas that were designed to act as a safety zone to contain munitions that do not hit targets or to contain kick-outs from OB/OD areas.	30	10	5
Storage	Any facility used for the storage of military munitions, such as earth-covered magazines, above-ground magazines, and open-air storage areas.	25	10	5
Explosive-Related Industrial Facility	Former munitions manufacturing or demilitarization sites and TNT production plants	20	10	5

Select the category that best describes the ***most hazardous*** amount of MEC: ***Score***

Burial Pit

Baseline Conditions:	**140**
Surface Cleanup:	**140**
Subsurface Cleanup:	**10**

Minimum MEC Depth Relative to the Maximum Intrusive Depth Input Factor Categories

Current Use Activities

The shallowest minimum MEC depth, based on the 'Cased Munitions Information' Worksheet: **0** ft
The deepest intrusive depth: **0** ft
The table below is used to determine scores associated with the minimum MEC depth relative to the maximum intrusive depth:

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.	240	150	95
Baseline Condition: MEC located surface and subsurface, After Cleanup: Intrusive depth does not overlap with subsurface MEC.	240	50	25
Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth overlaps with minimum MEC depth.	150	N/A	95
Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth does not overlap with minimum MEC depth.	50	N/A	25

Because the shallowest minimum MEC depth is less than or equal to the deepest intrusive depth, the intrusive depth will overlap after cleanup. MECs are located at both the surface and subsurface, based on the 'Munitions, Bulk Explosive Info' Worksheet. Therefore, the category for this input factor is 'Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.' For 'Current Use Activities', only Baseline Conditions are considered.

240 ***Score***

Migration Potential Input Factor Categories

Is there any physical or historical evidence that indicates it is possible for natural physical forces in the area (e.g., frost heave, erosion) to expose subsurface MEC items, or move surface or subsurface MEC items?

Yes

If "yes", describe the nature of natural forces. Indicate key areas of potential migration (e.g., overland water flow) on a map as appropriate (attach a map to the bottom of this sheet, or as a separate worksheet).

Frost Heave and Erosion

The following table is used to determine scores associated with the migration potential:

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Possible	30	30	10
Unlikely	10	10	10

Based on the question above, migration potential is 'Possible.'

	Score
Baseline Conditions:	**30**
Surface Cleanup:	**30**
Subsurface Cleanup:	**10**

Reference(s) for above information:

Final Remedial Investigation Report (2014)

Select Ref(s)

MEC Classification Input Factor Categories

Cased munitions information has been inputed into the 'Munitions, Bulk Explosive Info' Worksheet; therefore, bulk explosives do not comprise all MECs for this MRS.

The 'Amount of MEC' category is 'Burial Pit'. It is assumed that the MEC items in this MRS are DMM.

Has a technical assessment shown that MEC in the OB/OD Area is DMM?

Are any of the munitions listed in the 'Munitions, Bulk Explosive Info' Worksheet: Yes

- Submunitions
- Rifle-propelled 40mm projectiles (often called 40mm grenades)
- Munitions with white phosphorus filler
- High explosive anti-tank (HEAT) rounds
- Hand grenades
- Fuzes
- Mortars

None of the items listed in the 'Munitions, Bulk Explosive Info' Worksheet were identified as 'fuzed'.

The following table is used to determine scores associated with MEC classification categories:

Fuzed DMM Special Case	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
UXO Special Case	180	180	180
UXO	110	110	110
Fuzed DMM Special Case	105	105	105
Fuzed DMM	55	55	55
Unfuzed DMM	45	45	45
Bulk Explosives	45	45	45

Based on your answers above, the MEC classification is 'Fuzed DMM Special Case'.

	Score
Baseline Conditions:	**105**
Surface Cleanup:	**105**
Subsurface Cleanup:	**105**

MEC Size Input Factor Categories

The following table is used to determine scores associated with MEC Size:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Small	Any munitions (from the 'Munitions, Bulk Explosive Info' Worksheet) weigh less than 90 lbs; small enough for a receptor to be able to move and initiate a detonation	40	40	40
Large	All munitions weigh more than 90 lbs; too large to move without equipment	0	0	0

Based on the definitions above and the types of munitions at the site (see 'Munitions, Bulk Explosive Info' Worksheet), the MEC Size Input Factor is: Small

	Score
Baseline Conditions:	**40**
Surface Cleanup:	**40**
Subsurface Cleanup:	**40**

Scoring Summary

Site ID:	Fuze Area	a. Scoring Summary for Current Use Activities	
Date:	2/12/2013	Response Action Cleanup:	No Response Action
Input Factor		**Input Factor Category**	**Score**
I. Energetic Material Type		High Explosive and Low Explosive Filler in Fragmenting Rounds	100
II. Location of Additional Human Receptors		Inside the MRS or inside the ESQD arc	30
III. Site Accessibility		Full Accessibility	80
IV. Potential Contact Hours		100,000 to 999,999 receptor hrs/yr	70
V. Amount of MEC		Burial Pit	140
VI. Minimum MEC Depth Relative to Maximum Intrusive Depth		Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.	240
VII. Migration Potential		Possible	30
VIII. MEC Classification		Fuzed DMM Special Case	105
IX. MEC Size		Small	40
		Total Score	**835**
		Hazard Level Category	**2**

MEC HA Hazard Level Determination		
Site ID: Fuze Area		
Date: 2/12/2013		
	Hazard Level Category	Score
a. Current Use Activities	2	835
b. Future Use Activities	4	415
c. Response Alternative 1:		
d. Response Alternative 2:		
e. Response Alternative 3:		
f. Response Alternative 4:		
g. Response Alternative 5:		
h. Response Alternative 6:		

Characteristics of the MRS	
Is critical infrastructure located within the MRS or within the ESQD arc?	Yes
Are cultural resources located within the MRS or within the ESQD arc?	Yes
Are significant ecological resources located within the MRS or within the ESQD arc?	Yes

FORMER OPERATIONAL AREAS MRS

MEC HA Summary Information

Comments

Site ID: Former Operational Area (PICA-006-R-01)
Date: 2/12/2014

Please identify the single specific area to be assessed in this hazard assessment. From this point forward, all references to "site" or "MRS" refer to the specific area that you have defined.

A. Enter a unique identifier for the site:

PICA-006-R-01

Provide a list of information sources used for this hazard assessment. As you are completing the worksheets, use the "Select Ref(s)" buttons at the ends of each subsection to select the applicable information sources from the list below.

Ref. No.	Title (include version, publication date)
1	Final Remedial Investigation Report (2014)
2	Final Site Inspection Report (2008)
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

B. Briefly describe the site:

1. Area (include units): 1880 acres
2. Past munitions-related use:

Target Area

3. Current land-use activities (list all that occur):

within the MRS boundary are also parking lots, recreational areas, and portions of a golf course.

4. Are changes to the future land-use planned? No
5. What is the basis for the site boundaries?

The boundary is associated with a number of range fans.

6. How certain are the site boundaries?

The boundary for which munitions were spread as a result of the explosions is speculative based on historical information. The installation boundary is definitive.

Reference(s) for Part B:

Final Remedial Investigation Report (2014) Select Ref(s)

C. Historical Clearances

1. Have there been any historical clearances at the site? No, none
2. If a clearance occurred:
   a. What year was the clearance performed?
   b. Provide a description of the clearance activity (e.g., extent, depth, amount of munitions-related items removed, types and sizes of removed items, and whether metal detectors were used):

Reference(s) for Part C:

Draft Remedial Investigation Report (July 2013) Select Ref(s)

D. Attach maps of the site below (select 'Insert/Picture' on the menu bar.)

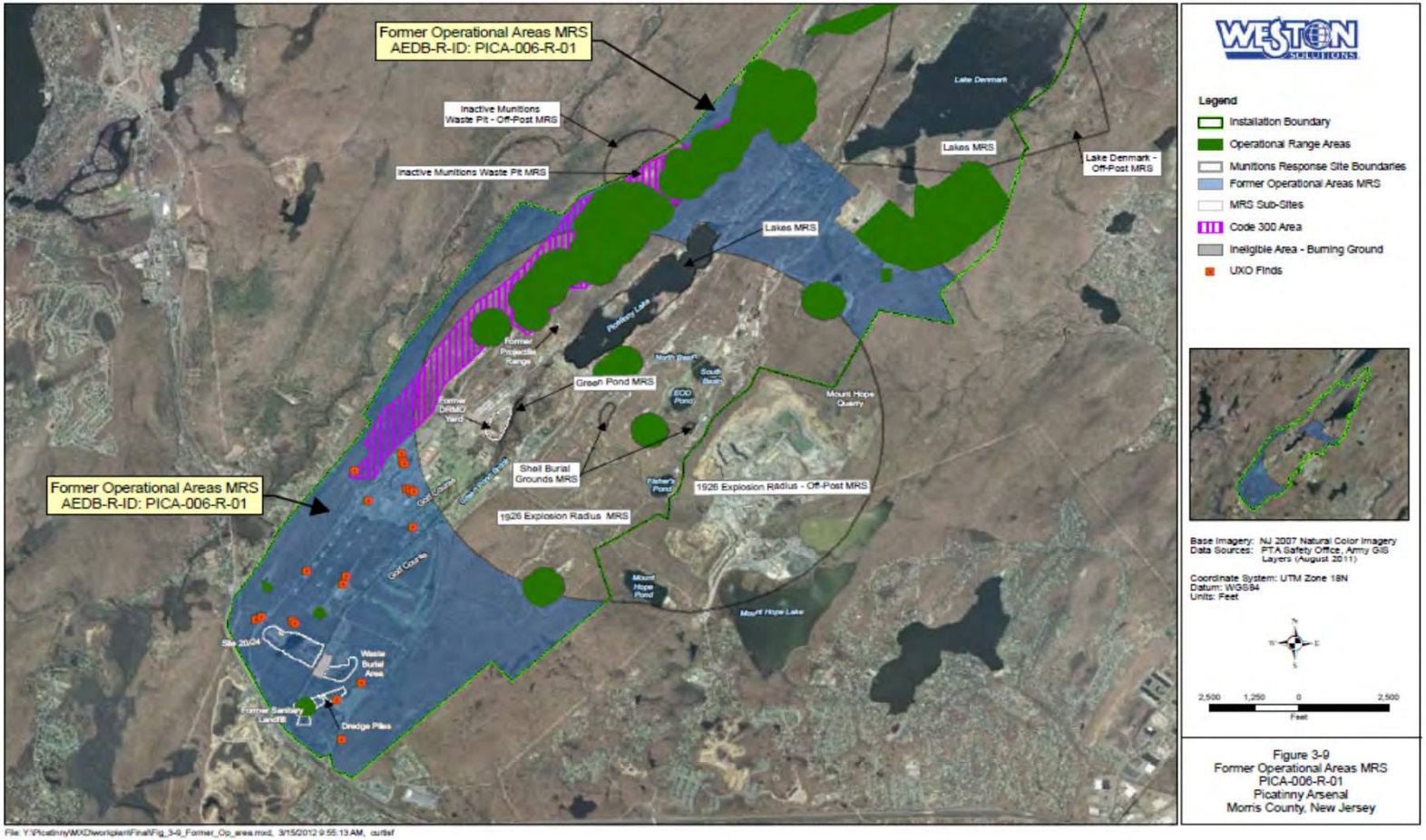


Figure 3-9
Former Operational Areas MRS
PICA-006-R-01
Picatinny Arsenal
Morris County, New Jersey

File: Y:\Picatinny\MXD\workplan\Final\Fig_3-9_Former_Op_area.mxd, 3/15/2012 9:55:13 AM, curtief

Site ID: **Former Operational Area (PICA-006-R-01)**
Date: **2/12/2014**

Cased Munitions Information

Item No.	Munition Type (e.g., mortar, projectile, etc.)	Munition Size	Munition Size Units	Mark/ Model	Energetic Material Type	Is Munition Fuzed?	Fuzing Type	Fuze Condition	Minimum Depth for Munition (ft)	Location of Munitions	Comments (include rationale for munitions that are "subsurface only")
1	Submunitions	37	mm	M32/38/40 Blu 26b Submunition	High Explosive	UNK	UNK	UNK	0.25	Subsurface Only	No items found on the ground surface during the RI.
2	Submunitions	37	mm	BLU-36 Submunition	High Explosive	UNK	UNK	UNK	0.5	Subsurface Only	No items found on the ground surface during the RI.
3	Submunitions	37	mm	BLU 3b	High Explosive	UNK	UNK	UNK	0.75	Subsurface Only	No items found on the ground surface during the RI.
4	Fuzes	1	lb	Heat, Grenade Rifle, Fuze	High Explosive	UNK	UNK	UNK	0.5	Subsurface Only	No items found on the ground surface during the RI.
5	Grenades	1.5	lb	Heat, Grenade Rifle, Body	High Explosive	UNK	UNK	UNK	0.66	Subsurface Only	No items found on the ground surface during the RI.
6	Mines: Sea and Land	1.5	lb	Fragmentation Mine, M26 AP Mine, Wax Filled	High Explosive	UNK	UNK	UNK	0.5	Subsurface Only	No items found on the ground surface during the RI.
7	Mortars	2	lb	Fuzed M302 60mm, White Phosphorous	White Phosphorus	Yes	UNK	UNK	0.25	Subsurface Only	No items found on the ground surface during the RI.
8	Mortars	4	lb	Fuzed 60mm Mortar	High Explosive	Yes	UNK	UNK	0.66	Subsurface Only	No items found on the ground surface during the RI.
9	Mortars	2.5	lb	Fuzed M43 81mm mortar, Practice	High Explosive	Yes	UNK	UNK	0	Surface and Subsurface	Item found on the surface during geophysical operations.
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

Reference(s) for table above:

Final Remedial Investigation Report (2014)

Select Ref(s)

Bulk Explosive Information

Item No.	Explosive Type	Comments
1		
2		
3		
4		

Site ID: **Former Operational Area (PICA-006-R-01)**
Date: **2/12/2014**

Activities Currently Occurring at the Site

Activity No.	Activity	Number of people per year who participate in the activity	Number of hours per year a single person spends on the activity	Potential Contact Time (receptor hours/year)	Maximum intrusive depth (ft)	Comments
1	Employees of PTA and Tenants (e.g., manufacturing, storage, testing, R&D, administration, housing, recreation, etc.)	3,900	2,040	**7,956,000**	0	PTA employs approximately 3,900 personnel; Yearly hours based on full time employee equivalent; Intrusive depth assumed to be 0 ft as no intrusive activities are anticipated
2	Residential	750	4,368	**3,276,000**	1.5	Approximately 750 people reside on PTA, Yearly hours based on 12 hrs/day; Intrusive depth assumes nominal household activities (e.g., gardening, swing sets, flag poles, etc.)
3	Construction	500	1,020	**510,000**	6	Anticipated construction of buildings, utilities, and roads; Yearly hours based on the equivalent of one half a full time employee; Maximum intrusive depth for construction assumed to be 6 ft
4	Recreational areas and golf course	2,500	100	**250,000**	1	Actual number of receptors and hours unknown but conservative estimate assumed; limited intrusive activities related to recreational use
5						
6						
7						
8						
9						
10						
11						
12						
			Total Potential Contact Time (receptor hrs/yr):	**11,992,000**		
				Maximum intrusive depth at site (ft):	**6**	

Reference(s) for table above:

Final Remedial Investigation Report (2014)

Select Ref(s)

Site ID: **Former Operational Area (PICA-006-R-01)**

Date: **2/12/2014**

Energetic Material Type Input Factor Categories

The following table is used to determine scores associated with the energetic materials. Materials are listed in order from most hazardous to least hazardous.

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
High Explosive and Low Explosive Filler in Fragmenting Rounds	100	100	100
White Phosphorus	70	70	70
Pyrotechnic	60	60	60
Propellant	50	50	50
Spotting Charge	40	40	40
Incendiary	30	30	30

The most hazardous type of energetic material listed in the 'Munitions, Bulk Explosive Info' Worksheet falls under the category 'High Explosive and Low Explosive Filler in Fragmenting Rounds'.

	Score
Baseline Conditions:	**100**
Surface Cleanup:	**100**
Subsurface Cleanup:	**100**

Comments

Location of Additional Human Receptors Input Factor Categories

1. What is the Explosive Safety Quantity Distance (ESQD) from the Explosive Siting Plan or the Explosive Safety Submission for the MRS? 313 feet

2. Are there currently any features or facilities where people may congregate within the MRS, or within the ESQD arc? Yes

3. Please describe the facility or feature.

Manufacturing, storage, testing, R&D, administration, and recreation. Included within the MRS boundary are also parking lots, recreational areas, and portions of a golf course.

MEC Item(s) used to calculate the ESQD for current use activities

Select MEC(s)

Item #3. Mortars (2.5lb, High Explosive)

The following table is used to determine scores associated with the location of additional human receptors (current use activities):

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Inside the MRS or inside the ESQD arc	30	30	30
Outside of the ESQD arc	0	0	0

4. Current use activities are 'Inside the MRS or inside the ESQD arc', based on Question 2.'

	Score
Baseline Conditions:	**30**
Surface Cleanup:	**30**
Subsurface Cleanup:	**30**

Site Accessibility Input Factor Categories

The following table is used to determine scores associated with site accessibility:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Full Accessibility	No barriers to entry, including signage but no fencing	80	80	80
Moderate Accessibility	Some barriers to entry, such as barbed wire fencing or rough terrain	55	55	55
Limited Accessibility	Significant barriers to entry, such as unguarded chain link fence or requirements for special transportation to reach the site	15	15	15
Very Limited Accessibility	A site with guarded chain link fence or terrain that requires special equipment and skills (e.g., rock climbing) to access	5	5	5

Current Use Activities ***Score***

Select the category that best describes the site accessibility under the current use scenario:

Full Accessibility

Baseline Conditions:	**80**
Surface Cleanup:	**80**
Subsurface Cleanup:	**80**

Potential Contact Hours Input Factor Categories

The following table is used to determine scores associated with the total potential contact time:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Many Hours	≥1,000,000 receptor-hrs/yr	120	90	30
Some Hours	100,000 to 999,999 receptor hrs/yr	70	50	20
Few Hours	10,000 to 99,999 receptor-hrs/yr	40	20	10
Very Few Hours	<10,000 receptor-hrs/yr	15	10	5

Current Use Activities :

Input factors are only determined for baseline conditions for current use activities. Based on the 'Current and Future Activities' Worksheet, the Total Potential Contact Time is: **11,992,000** receptor hrs/yr

Based on the table above, this corresponds to a input factor score for baseline conditions of: **120** Score

Amount of MEC Input Factor Categories

The following table is used to determine scores associated with the Amount of MEC:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Target Area	Areas at which munitions fire was directed	180	120	30
OB/OD Area	Sites where munitions were disposed of by open burn or open detonation methods. This category refers to the core activity area of an OB/OD area. See the "Safety Buffer Areas" category for safety fans and kick-outs.	180	110	30
Function Test Range	Areas where the serviceability of stored munitions or weapons systems are tested. Testing may include components, partial functioning or complete functioning of stockpile or developmental items.	165	90	25
Burial Pit	The location of a burial of large quantities of MEC items.	140	140	10
Maneuver Areas	Areas used for conducting military exercises in a simulated conflict area or war zone	115	15	5
Firing Points	The location from which a projectile, grenade, ground signal, rocket, guided missile, or other device is to be ignited, propelled, or released.	75	10	5
Safety Buffer Areas	Areas outside of target areas, test ranges, or OB/OD areas that were designed to act as a safety zone to contain munitions that do not hit targets or to contain kick-outs from OB/OD areas.	30	10	5
Storage	Any facility used for the storage of military munitions, such as earth-covered magazines, above-ground magazines, and open-air storage areas.	25	10	5
Explosive-Related Industrial Facility	Former munitions manufacturing or demilitarization sites and TNT production plants	20	10	5

Select the category that best describes the ***most hazardous*** amount of MEC: ***Score***

Target Area

Baseline Conditions:	**180**
Surface Cleanup:	**120**
Subsurface Cleanup:	**30**

Minimum MEC Depth Relative to the Maximum Intrusive Depth Input Factor Categories

Current Use Activities

The shallowest minimum MEC depth, based on the 'Cased Munitions Information' Worksheet: **0** ft

The deepest intrusive depth: **6** ft

The table below is used to determine scores associated with the minimum MEC depth relative to the maximum intrusive depth:

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.	240	150	95
Baseline Condition: MEC located surface and subsurface, After Cleanup: Intrusive depth does not overlap with subsurface MEC.	240	50	25
Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth overlaps with minimum MEC depth.	150	N/A	95
Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth does not overlap with minimum MEC depth.	50	N/A	25

Because the shallowest minimum MEC depth is less than or equal to the deepest intrusive depth, the intrusive depth will overlap after cleanup. MECs are located at both the surface and subsurface, based on the 'Munitions, Bulk Explosive Info' Worksheet. Therefore, the category for this input factor is 'Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.' For 'Current Use Activities', only Baseline Conditions are considered.

240 ***Score***

Migration Potential Input Factor Categories

Is there any physical or historical evidence that indicates it is possible for natural physical forces in the area (e.g., frost heave, erosion) to expose subsurface MEC items, or move surface or subsurface MEC items? Yes

If "yes", describe the nature of natural forces. Indicate key areas of potential migration (e.g., overland water flow) on a map as appropriate (attach a map to the bottom of this sheet, or as a separate worksheet).

Frost Heave and Erosion

The following table is used to determine scores associated with the migration potential:

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Possible	30	30	10
Unlikely	10	10	10

Based on the question above, migration potential is 'Possible.'

	Score
Baseline Conditions:	**30**
Surface Cleanup:	**30**
Subsurface Cleanup:	**10**

Reference(s) for above information:

Final Remedial Investigation Report (2014)

Select Ref(s)

MEC Classification Input Factor Categories

Cased munitions information has been inputed into the 'Munitions, Bulk Explosive Info' Worksheet; therefore, bulk explosives do not comprise all MECs for this MRS.

The 'Amount of MEC' category is 'Target Area'. It cannot be automatically assumed that the MEC items from this category are DMM. Therefore, the conservative assumption is that the MEC items in this MRS are UXO.

Has a technical assessment shown that MEC in the OB/OD Area is DMM?

Are any of the munitions listed in the 'Munitions, Bulk Explosive Info' Worksheet: Yes

- Submunitions
- Rifle-propelled 40mm projectiles (often called 40mm grenades)
- Munitions with white phosphorus filler
- High explosive anti-tank (HEAT) rounds
- Hand grenades
- Fuzes
- Mortars

At least one item listed in the 'Munitions, Bulk Explosive Info' Worksheet was identified as 'fuzed'.

The following table is used to determine scores associated with MEC classification categories:

UXO Special Case	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
UXO Special Case	180	180	180
UXO	110	110	110
Fuzed DMM Special Case	105	105	105
Fuzed DMM	55	55	55
Unfuzed DMM	45	45	45
Bulk Explosives	45	45	45

Based on your answers above, the MEC classification is 'UXO Special Case'.

	Score
Baseline Conditions:	**180**
Surface Cleanup:	**180**
Subsurface Cleanup:	**180**

MEC Size Input Factor Categories

The following table is used to determine scores associated with MEC Size:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Small	Any munitions (from the 'Munitions, Bulk Explosive Info' Worksheet) weigh less than 90 lbs; small enough for a receptor to be able to move and initiate a detonation	40	40	40
Large	All munitions weigh more than 90 lbs; too large to move without equipment	0	0	0

Based on the definitions above and the types of munitions at the site (see 'Munitions, Bulk Explosive Info' Worksheet), the MEC Size Input Factor is: Small

	Score
Baseline Conditions:	**40**
Surface Cleanup:	**40**
Subsurface Cleanup:	**40**

Scoring Summary

Site ID:	**Former Operational Area (PICA-006-R-01)**	**a. Scoring Summary for Current Use Activities**	
Date:	**2/12/2014**	**Response Action Cleanup:**	**No Response Action**
Input Factor		**Input Factor Category**	**Score**
I. Energetic Material Type		High Explosive and Low Explosive Filler in Fragmenting Rounds	100
II. Location of Additional Human Receptors		Inside the MRS or inside the ESQD arc	30
III. Site Accessibility		Full Accessibility	80
IV. Potential Contact Hours		≥1,000,000 receptor-hrs/yr	120
V. Amount of MEC		Target Area	180
VI. Minimum MEC Depth Relative to Maximum Intrusive Depth		Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.	240
VII. Migration Potential		Possible	30
VIII. MEC Classification		UXO Special Case	180
IX. MEC Size		Small	40
		Total Score	**1000**
		Hazard Level Category	**1**

MEC HA Hazard Level Determination		
Site ID: Former Operational Area (PICA-006-R-01)		
Date: 2/12/2014		
	Hazard Level Category	Score
a. Current Use Activities	1	1000
b. Future Use Activities	3	530
c. Response Alternative 1:		
d. Response Alternative 2:		
e. Response Alternative 3:		
f. Response Alternative 4:		
g. Response Alternative 5:		
h. Response Alternative 6:		

Characteristics of the MRS	
Is critical infrastructure located within the MRS or within the ESQD arc?	Yes
Are cultural resources located within the MRS or within the ESQD arc?	Yes
Are significant ecological resources located within the MRS or within the ESQD arc?	Yes

FORMER OPERATIONAL AREAS – MORTAR RANGE MRS

MEC HA Summary Information

Comments

Site ID: Former Operational Area Mortar Range (PICA-006-R-02)
Date: 11/11/2013

Please identify the single specific area to be assessed in this hazard assessment. From this point forward, all references to "site" or "MRS" refer to the specific area that you have defined.

A. Enter a unique identifier for the site:

PICA-006-R-02

Provide a list of information sources used for this hazard assessment. As you are completing the worksheets, use the "Select Ref(s)" buttons at the ends of each subsection to select the applicable information sources from the list below.

Ref. No.	Title (include version, publication date)
1	Draft Remedial Investigation Report (July 2013)
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

B. Briefly describe the site:

1. Area (include units): 109.5 acres
2. Past munitions-related use:

Target Area

3. Current land-use activities (list all that occur):

Testing, recreation, storage and parking.

4. Are changes to the future land-use planned? No
5. What is the basis for the site boundaries?

The boundary is associated with a historical mortar range fan and the extent of MEC and MD identified during the RI associated with the Mortar Range.

6. How certain are the site boundaries?

Certain, the boundary is based on the extent of MEC and MD identified during the RI associated with the Mortar Range.

Reference(s) for Part B:

Draft Remedial Investigation Report (July 2013) Select Ref(s)

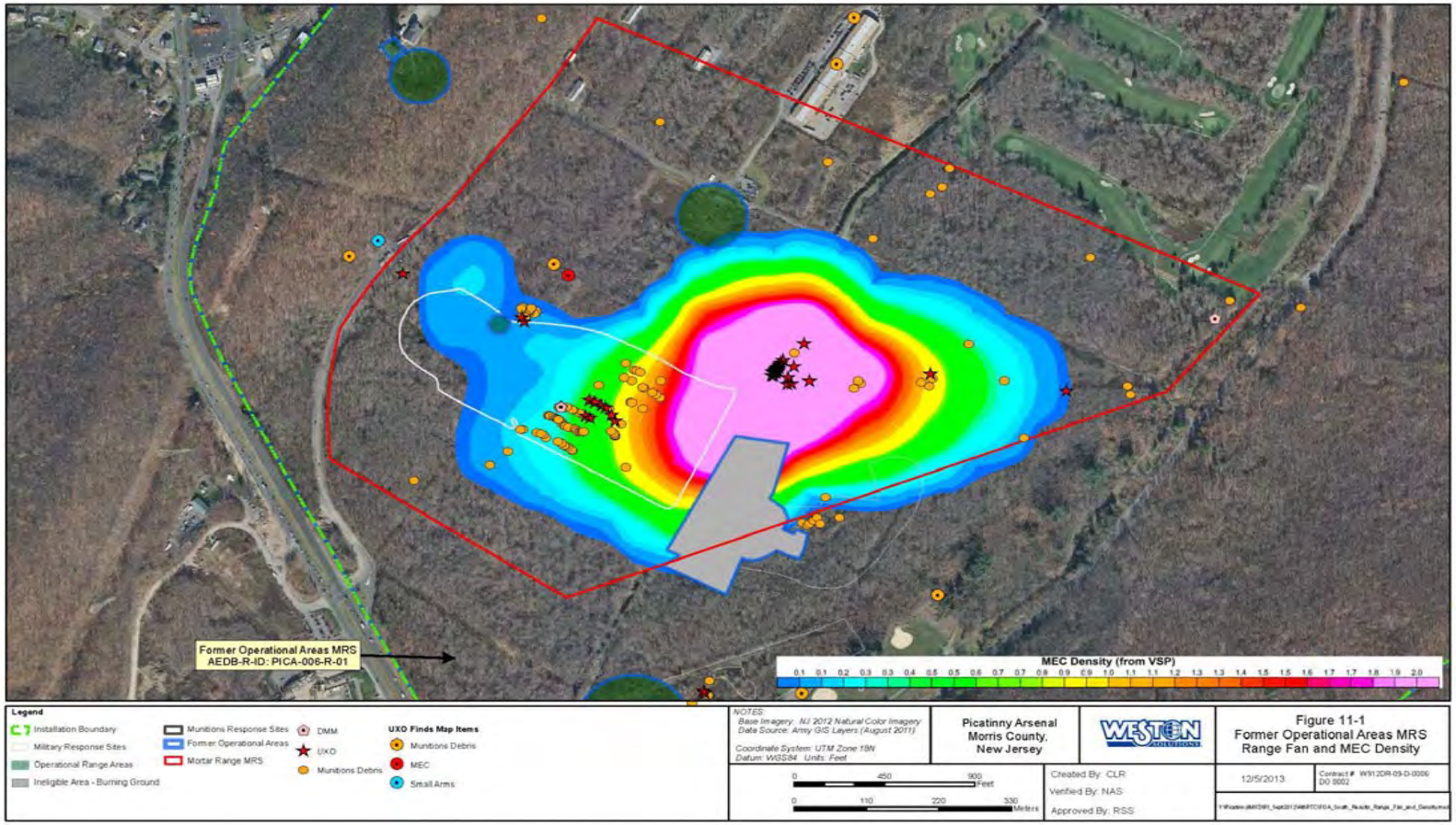
C. Historical Clearances

1. Have there been any historical clearances at the site? No, none
2. If a clearance occurred:
   a. What year was the clearance performed?
   b. Provide a description of the clearance activity (e.g., extent, depth, amount of munitions-related items removed, types and sizes of removed items, and whether metal detectors were used):

Reference(s) for Part C:

Draft Remedial Investigation Report (July 2013) Select Ref(s)

D. Attach maps of the site below (select 'Insert/Picture' on the menu bar.)



Site ID: **Former Operational Area Mortar Range (PICA-006-R-02)**
Date: **11/11/2013**

Cased Munitions Information

Item No.	Munition Type (e.g., mortar, projectile, etc.)	Munition Size	Munition Size Units	Mark/ Model	Energetic Material Type	Is Munition Fuzed?	Fuzing Type	Fuze Condition	Minimum Depth for Munition (ft)	Location of Munitions	Comments (include rationale for munitions that are "subsurface only")
1	Submunitions	0.1	lb	M32/38/40 Blu 26b Submunition	High Explosive	UNK	UNK	UNK	0.25	Subsurface Only	No items found on the ground surface during the RI.
2	Fuzes	1	lb	Heat, Grenade Rifle, Fuze	High Explosive	UNK	UNK	UNK	0.5	Subsurface Only	No items found on the ground surface during the RI.
3	Grenades	1.5	lb	Heat, Grenade Rifle	High Explosive	UNK	UNK	UNK	0.66	Subsurface Only	No items found on the ground surface during the RI.
4	Mortars	2	lb	Fuzed M302 60mm, White Phosphorous	White Phosphorus	Yes	UNK	UNK	0.25	Subsurface Only	No items found on the ground surface during the RI.
5	Mortars	4	lb	Fuzed 60mm Mortar	High Explosive	Yes	UNK	UNK	0.66	Subsurface Only	No items found on the ground surface during the RI.
6	Mortars	2.5	lb	Fuzed M43 81mm mortar, Practice	High Explosive	Yes	UNK	UNK	0	Surface and Subsurface	Item found on the surface during geophysical operations.
7											
8											
9											
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17											
18											
19											
20											

Reference(s) for table above:

Draft Remedial Investigation Report (July 2013)

Select Ref(s)

Bulk Explosive Information

Item No.	Explosive Type	Comments
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Reference(s) for table above:

Select Ref(s)

Site ID: **Former Operational Area Mortar Range (PICA-006-R-02)**
Date: **11/11/2013**

Activities Currently Occurring at the Site

Activity No.	Activity	Number of people per year who participate in the activity	Number of hours per year a single person spends on the activity	Potential Contact Time (receptor hours/year)	Maximum intrusive depth (ft)	Comments
1	Employees of PTA and Tenants (e.g., manufacturing, storage, testing, R&D, administration, housing, recreation, etc.)	400	2,000	**800,000**	0	PTA employs approximately 3,900 personnel, however this is only a small portion of PTA, with only a handful of buildings; Yearly hours based on full time employee equivalent; Intrusive depth assumed to be 0 ft as no intrusive activities are anticipated
2	Recreational area (Hunting)	300	40	**12,000**	1	Actual number of receptors and hours unknown but conservative estimate assumed
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
			Total Potential Contact Time (receptor hrs/yr):	**812,000**		
			Maximum intrusive depth at site (ft):		**1**	

Reference(s) for table above:

Select Ref(s)

Draft Remedial Investigation Report (July 2013)

Site ID: **Former Operational Area Mortar Range (PICA-006-R-02)**
Date: **11/11/2013**

Energetic Material Type Input Factor Categories

The following table is used to determine scores associated with the energetic materials. Materials are listed in order from most hazardous to least hazardous.

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
High Explosive and Low Explosive Filler in Fragmenting Rounds	100	100	100
White Phosphorus	70	70	70
Pyrotechnic	60	60	60
Propellant	50	50	50
Spotting Charge	40	40	40
Incendiary	30	30	30

The most hazardous type of energetic material listed in the 'Munitions, Bulk Explosive Info' Worksheet falls under the category 'High Explosive and Low Explosive Filler in Fragmenting Rounds'.

	Score
Baseline Conditions:	**100**
Surface Cleanup:	**100**
Subsurface Cleanup:	**100**

Comments

Location of Additional Human Receptors Input Factor Categories

1. What is the Explosive Safety Quantity Distance (ESQD) from the Explosive Siting Plan or the Explosive Safety Submission for the MRS? 313 feet

2. Are there currently any features or facilities where people may congregate within the MRS, or within the ESQD arc? Yes

3. Please describe the facility or feature.

Storage, testing, parking and recreation. Within the ESQD arc portions of a golf course, administration buildings, baseball fields and storage.

MEC Item(s) used to calculate the ESQD for current use activities

Select MEC(s)

Item #6. Mortars (2.5lb, High Explosive)

The following table is used to determine scores associated with the location of additional human receptors (current use activities):

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Inside the MRS or inside the ESQD arc	30	30	30
Outside of the ESQD arc	0	0	0

4. Current use activities are 'Inside the MRS or inside the ESQD arc', based on Question 2.'

	Score
Baseline Conditions:	**30**
Surface Cleanup:	**30**
Subsurface Cleanup:	**30**

Site Accessibility Input Factor Categories

The following table is used to determine scores associated with site accessibility:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Full Accessibility	No barriers to entry, including signage but no fencing	80	80	80
Moderate Accessibility	Some barriers to entry, such as barbed wire fencing or rough terrain	55	55	55
Limited Accessibility	Significant barriers to entry, such as unguarded chain link fence or requirements for special transportation to reach the site	15	15	15
Very Limited Accessibility	A site with guarded chain link fence or terrain that requires special equipment and skills (e.g., rock climbing) to access	5	5	5

Current Use Activities ***Score***

Select the category that best describes the site accessibility under the current use scenario:

Full Accessibility

Baseline Conditions:	**80**
Surface Cleanup:	**80**
Subsurface Cleanup:	**80**

Potential Contact Hours Input Factor Categories

The following table is used to determine scores associated with the total potential contact time:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Many Hours	≥1,000,000 receptor-hrs/yr	120	90	30
Some Hours	100,000 to 999,999 receptor hrs/yr	70	50	20
Few Hours	10,000 to 99,999 receptor-hrs/yr	40	20	10
Very Few Hours	<10,000 receptor-hrs/yr	15	10	5

Current Use Activities :

Input factors are only determined for baseline conditions for current use activities. Based on the 'Current and Future Activities' Worksheet, the Total Potential Contact Time is: **812,000** receptor hrs/yr

Based on the table above, this corresponds to a input factor score for baseline conditions of: **70** Score

Amount of MEC Input Factor Categories

The following table is used to determine scores associated with the Amount of MEC:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Target Area	Areas at which munitions fire was directed	180	120	30
OB/OD Area	Sites where munitions were disposed of by open burn or open detonation methods. This category refers to the core activity area of an OB/OD area. See the "Safety Buffer Areas" category for safety fans and kick-outs.	180	110	30
Function Test Range	Areas where the serviceability of stored munitions or weapons systems are tested. Testing may include components, partial functioning or complete functioning of stockpile or developmental items.	165	90	25
Burial Pit	The location of a burial of large quantities of MEC items.	140	140	10
Maneuver Areas	Areas used for conducting military exercises in a simulated conflict area or war zone	115	15	5
Firing Points	The location from which a projectile, grenade, ground signal, rocket, guided missile, or other device is to be ignited, propelled, or released.	75	10	5
Safety Buffer Areas	Areas outside of target areas, test ranges, or OB/OD areas that were designed to act as a safety zone to contain munitions that do not hit targets or to contain kick-outs from OB/OD areas.	30	10	5
Storage	Any facility used for the storage of military munitions, such as earth-covered magazines, above-ground magazines, and open-air storage areas.	25	10	5
Explosive-Related Industrial Facility	Former munitions manufacturing or demilitarization sites and TNT production plants	20	10	5

Select the category that best describes the ***most hazardous*** amount of MEC: ***Score***

Target Area

Baseline Conditions:	**180**
Surface Cleanup:	**120**
Subsurface Cleanup:	**30**

Minimum MEC Depth Relative to the Maximum Intrusive Depth Input Factor Categories

Current Use Activities

The shallowest minimum MEC depth, based on the 'Cased Munitions Information' Worksheet: **0** ft

The deepest intrusive depth: **1** ft

The table below is used to determine scores associated with the minimum MEC depth relative to the maximum intrusive depth:

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.	240	150	95
Baseline Condition: MEC located surface and subsurface, After Cleanup: Intrusive depth does not overlap with subsurface MEC.	240	50	25
Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth overlaps with minimum MEC depth.	150	N/A	95
Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth does not overlap with minimum MEC depth.	50	N/A	25

Because the shallowest minimum MEC depth is less than or equal to the deepest intrusive depth, the intrusive depth will overlap after cleanup. MECs are located at both the surface and subsurface, based on the 'Munitions, Bulk Explosive Info' Worksheet. Therefore, the category for this input factor is 'Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.' For 'Current Use Activities', only Baseline Conditions are considered. **240** ***Score***

Future Use Activities

Deepest intrusive depth: **1** ft

Because the shallowest minimum MEC depth is less than or equal to the deepest intrusive depth, the intrusive depth overlaps. MECs are located at both the surface and subsurface, based on the 'Munitions, Bulk Explosive Info' Worksheet. Therefore, the category for this input factor is 'Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.'. For 'Future Use Activities', only Baseline Conditions are considered. **240** ***Score***

Migration Potential Input Factor Categories

Is there any physical or historical evidence that indicates it is possible for natural physical forces in the area (e.g., frost heave, erosion) to expose subsurface MEC items, or move surface or subsurface MEC items? Yes

If "yes", describe the nature of natural forces. Indicate key areas of potential migration (e.g., overland water flow) on a map as appropriate (attach a map to the bottom of this sheet, or as a separate worksheet).

Frost Heave and Erosion

The following table is used to determine scores associated with the migration potential:

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Possible	30	30	10
Unlikely	10	10	10

Based on the question above, migration potential is 'Possible.'

	Score
Baseline Conditions:	**30**
Surface Cleanup:	**30**
Subsurface Cleanup:	**10**

Reference(s) for above information:

Draft Remedial Investigation Report (July 2013)

Select Ref(s)

MEC Classification Input Factor Categories

Cased munitions information has been inputed into the 'Munitions, Bulk Explosive Info' Worksheet; therefore, bulk explosives do not comprise all MECs for this MRS.

The 'Amount of MEC' category is 'Target Area'. It cannot be automatically assumed that the MEC items from this category are DMM. Therefore, the conservative assumption is that the MEC items in this MRS are UXO.

Has a technical assessment shown that MEC in the OB/OD Area is DMM?

Are any of the munitions listed in the 'Munitions, Bulk Explosive Info' Worksheet: Yes

- Submunitions
- Rifle-propelled 40mm projectiles (often called 40mm grenades)
- Munitions with white phosphorus filler
- High explosive anti-tank (HEAT) rounds
- Hand grenades
- Fuzes
- Mortars

At least one item listed in the 'Munitions, Bulk Explosive Info' Worksheet was identified as 'fuzed'.

The following table is used to determine scores associated with MEC classification categories:

Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
UXO Special Case	180	180	180
UXO	110	110	110
Fuzed DMM Special Case	105	105	105
Fuzed DMM	55	55	55
Unfuzed DMM	45	45	45
Bulk Explosives	45	45	45

Based on your answers above, the MEC classification is '"UXO Special Case"

	Score
Baseline Conditions:	**180**
Surface Cleanup:	**180**
Subsurface Cleanup:	**180**

MEC Size Input Factor Categories

The following table is used to determine scores associated with MEC Size:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Small	Any munitions (from the 'Munitions, Bulk Explosive Info' Worksheet) weigh less than 90 lbs; small enough for a receptor to be able to move and initiate a detonation	40	40	40
Large	All munitions weigh more than 90 lbs; too large to move without equipment	0	0	0

Based on the definitions above and the types of munitions at the site (see 'Munitions, Bulk Explosive Info' Worksheet), the MEC Size Input Factor is: Small

	Score
Baseline Conditions:	**40**
Surface Cleanup:	**40**
Subsurface Cleanup:	**40**

Scoring Summary

Site ID:	Former Operational Area Mortar Range (PICA-006-R-02)	a. Scoring Summary for Current Use Activities	
Date:	11/11/2013	Response Action Cleanup:	No Response Action
Input Factor		Input Factor Category	Score
I. Energetic Material Type		High Explosive and Low Explosive Filler in Fragmenting Rounds	100
II. Location of Additional Human Receptors		Inside the MRS or inside the ESQD arc	30
III. Site Accessibility		Full Accessibility	80
IV. Potential Contact Hours		100,000 to 999,999 receptor hrs/yr	70
V. Amount of MEC		Target Area	180
VI. Minimum MEC Depth Relative to Maximum Intrusive Depth		Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.	240
VII. Migration Potential		Possible	30
VIII. MEC Classification		Description	180
IX. MEC Size		Small	40
		Total Score	950
		Hazard Level Category	1

MEC HA Hazard Level Determination		
Site ID:	Former Operational Area Mortar Range (PICA-006-R-02)	
Date:	11/11/2013	
	Hazard Level Category	Score
a. Current Use Activities	1	950
b. Future Use Activities		
c. Response Alternative 1:		
d. Response Alternative 2:		
e. Response Alternative 3:		
f. Response Alternative 4:		
g. Response Alternative 5:		
h. Response Alternative 6:		

Characteristics of the MRS	
Is critical infrastructure located within the MRS or within the ESQD arc?	No
Are cultural resources located within the MRS or within the ESQD arc?	No
Are significant ecological resources located within the MRS or within the ESQD arc?	Yes

LAKES MRS

MEC HA Summary Information

Comments

Site ID: Lakes (PICA-008-R-01)
Date: 2/24/2013

Please identify the single specific area to be assessed in this hazard assessment. From this point forward, all references to "site" or "MRS" refer to the specific area that you have defined.

A. Enter a unique identifier for the site:

PICA-008-R-01

Provide a list of information sources used for this hazard assessment. As you are completing the worksheets, use the "Select Ref(s)" buttons at the ends of each subsection to select the applicable information sources from the list below.

Ref. No.	Title (include version, publication date)
1	Final Remedial Investigation Report (2014)
2	Final Site Specific Final Report (2014)
3	PSE&G Power Line Right-of-Way (2013)
4	USACE Analog Geophysical Survey (2010)
5	Final Site Inspection Report (2008)
6	IRP Investigations (2006)
7	
8	
9	
10	
11	
12	

B. Briefly describe the site:

1. Area (include units): 741 acres total; 370 on land
2. Past munitions-related use:

Function Test Range

3. Current land-use activities (list all that occur):

Land surrounding Picatinny Lake: R&D and production buildings surround the lake. Land surrounding Lake Denmark: Former ranges at Lake Denmark and surrounding upland forested areas are designated as other than operational range.

4. Are changes to the future land-use planned? No
5. What is the basis for the site boundaries?

The boundary of the lake itself, any pennisulas, or islands, as well as overlapping range fans.

6. How certain are the site boundaries?

Site boundaries for this MEC HA only include the land portions of the MRS. The range fans are speculative. The installation boundary is definitive.

Reference(s) for Part B: Select Ref(s)

Final Remedial Investigation Report (2014)

C. Historical Clearances

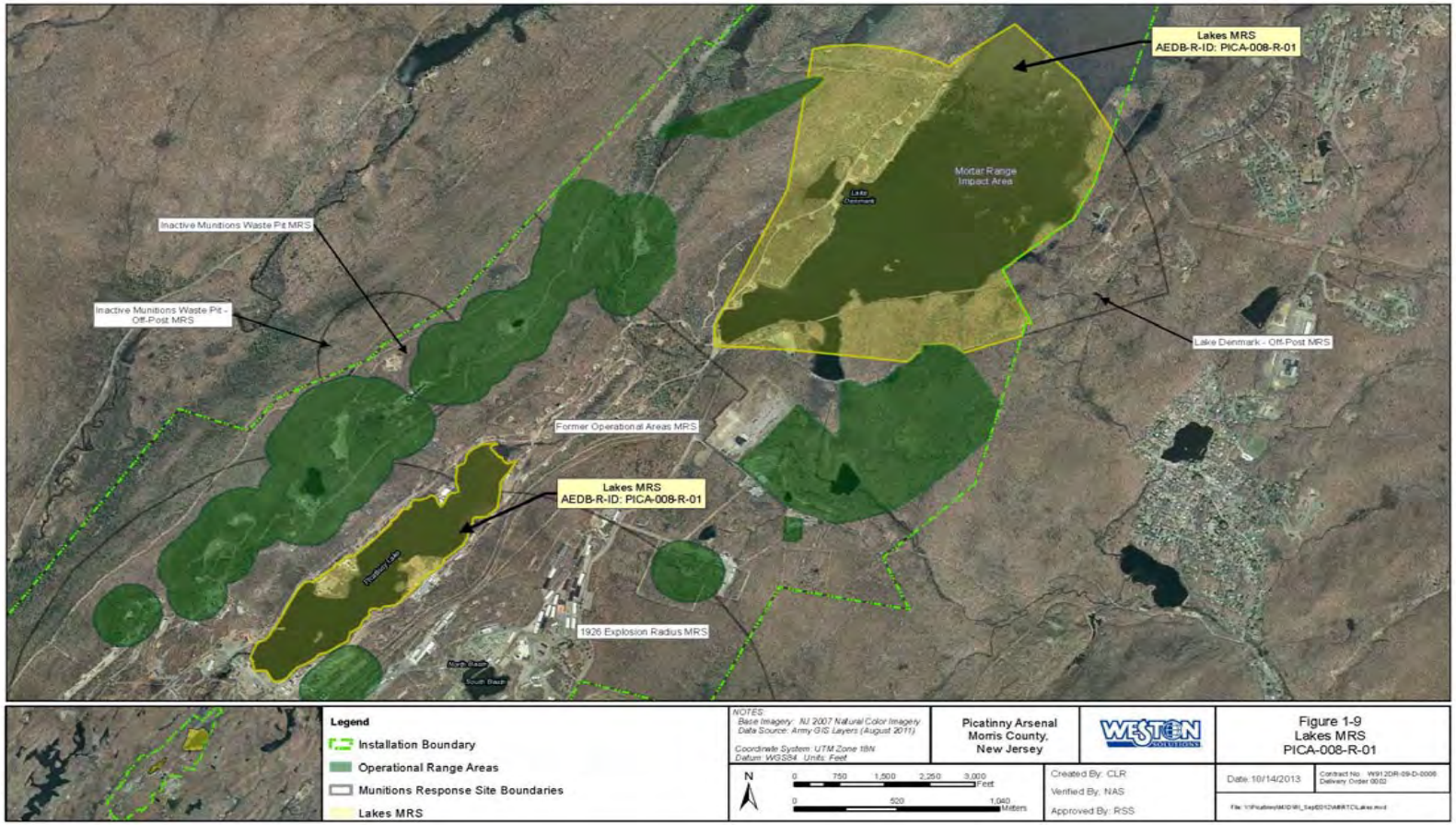
1. Have there been any historical clearances at the site? Yes, surface clearance
2. If a clearance occurred:
   a. What year was the clearance performed? 2010
   b. Provide a description of the clearance activity (e.g., extent, depth, amount of munitions-related items removed, types and sizes of removed items, and whether metal detectors were used):

2010 - IRP Investigation for Picatinny Lake; a majority of the buildings and several locations along shore; BD fuzes and other MEC were reportedly found near Building 823. 2010 - Analog Survey of Lake Denmark, While the lakes were drawn down in 2010, a 60mm mortar, white phosphorus (WP) was identified on the southern shoreline of Lake Denmark.

Reference(s) for Part C: Select Ref(s)

Draft Remedial Investigation Report (July 2013)

D. Attach maps of the site below (select 'Insert/Picture' on the menu bar.)



Site ID: **Lakes (PICA-008-R-01)**
Date: **2/24/2013**

Cased Munitions Information

Item No.	Munition Type (e.g., mortar, projectile, etc.)	Munition Size	Munition Size Units	Mark/ Model	Energetic Material Type	Is Munition Fuzed?	Fuzing Type	Fuze Condition	Minimum Depth for Munition (ft)	Location of Munitions	Comments (include rationale for munitions that are "subsurface only")
1	Rockets	37	mm	Fuzed 37mm Smoke Projectile	Pyrotechnic	UNK	UNK	UNK	0.33	Subsurface Only	All items were found in the subsurface.
2	Rockets	155	mm	Supplemental Charge; 155MM Projectile	High Explosive	UNK	UNK	UNK	UNK	Surface and Subsurface	Depth of find is not available.
3	Mortars	60	mm	60mm HE Mortar	High Explosive	UNK	UNK	UNK	0	Surface and Subsurface	
4	Mortars	60	mm	60mm WP Mortar	White Phosphorus	UNK	UNK	UNK	UNK	Surface and Subsurface	Depth of find is not available.
5	Fuzes	60	mm	PD Fuze with Booster	High Explosive	UNK	Impact	Armed	0	Surface and Subsurface	
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

Reference(s) for table above:
Final Remedial Investigation Report (2014)
Final Site Specific Final Report (2014)

Select Ref(s)

Bulk Explosive Information

Item No.	Explosive Type	Comments
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Reference(s) for table above:

Select Ref(s)

Site ID: **Lakes (PICA-008-R-01)**
Date: **2/24/2013**

Activities Currently Occurring at the Site

Activity No.	Activity	Number of people per year who participate in the activity	Number of hours per year a single person spends on the activity	Potential Contact Time (receptor hours/year)	Maximum intrusive depth (ft)	Comments
1	Fishing and recreational boating	5,000	100	**500,000**	0	No intrusive activities expected.
2	Picatinny Lake Dam, steam, and electrical power plant	50	2,000	**100,000**	0	No intrusive activities expected.
3	800 Buildings	100	2,000	**200,000**	0	No intrusive activities expected.
4	Lake Denmark Dam	10	100	**1,000**	0	No intrusive activities expected.
5	Softball field	500	500	**250,000**	0	No intrusive activities expected.
6	Electric right-of-way	50	10	**500**	0	No intrusive activities expected.
7	Buildings surrounding Lake Denmark	100	2,000	**200,000**	0	No intrusive activities expected.
8						
9						
10						
11						
12						

Total Potential Contact Time (receptor hrs/yr): **1,251,500**

Maximum intrusive depth at site (ft): **0**

Reference(s) for table above:

Final Remedial Investigation Report (2014)

Select Ref(s)

Site ID: **Lakes (PICA-008-R-01)**
Date: **2/24/2013**

Energetic Material Type Input Factor Categories

The following table is used to determine scores associated with the energetic materials. Materials are listed in order from most hazardous to least hazardous.

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
High Explosive and Low Explosive Filler in Fragmenting Rounds	100	100	100
White Phosphorus	70	70	70
Pyrotechnic	60	60	60
Propellant	50	50	50
Spotting Charge	40	40	40
Incendiary	30	30	30

The most hazardous type of energetic material listed in the 'Munitions, Bulk Explosive Info' Worksheet falls under the category 'High Explosive and Low Explosive Filler in Fragmenting Rounds'.

	Score
Baseline Conditions:	**100**
Surface Cleanup:	**100**
Subsurface Cleanup:	**100**

Comments

Location of Additional Human Receptors Input Factor Categories

1. What is the Explosive Safety Quantity Distance (ESQD) from the Explosive Siting Plan or the Explosive Safety Submission for the MRS? 324 feet

2. Are there currently any features or facilities where people may congregate within the MRS, or within the ESQD arc? Yes

3. Please describe the facility or feature.

Former 3 inch Barbette gun range, and for storing smokeless powder and explosives underwater

MEC Item(s) used to calculate the ESQD for current use activities

Select MEC(s)

Item #3. Mortars (2.5lb, High Explosive)

The following table is used to determine scores associated with the location of additional human receptors (current use activities):

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Inside the MRS or inside the ESQD arc	30	30	30
Outside of the ESQD arc	0	0	0

4. Current use activities are 'Inside the MRS or inside the ESQD arc', based on Question 2.' ***Score***

Baseline Conditions:	**30**
Surface Cleanup:	**30**
Subsurface Cleanup:	**30**

Site Accessibility Input Factor Categories

The following table is used to determine scores associated with site accessibility:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Full Accessibility	No barriers to entry, including signage but no fencing	80	80	80
Moderate Accessibility	Some barriers to entry, such as barbed wire fencing or rough terrain	55	55	55
Limited Accessibility	Significant barriers to entry, such as unguarded chain link fence or requirements for special transportation to reach the site	15	15	15
Very Limited Accessibility	A site with guarded chain link fence or terrain that requires special equipment and skills (e.g., rock climbing) to access	5	5	5

Current Use Activities ***Score***

Select the category that best describes the site accessibility under the current use scenario:

Full Accessibility

Baseline Conditions:	**80**
Surface Cleanup:	**80**
Subsurface Cleanup:	**80**

Potential Contact Hours Input Factor Categories

The following table is used to determine scores associated with the total potential contact time:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Many Hours	≥1,000,000 receptor-hrs/yr	120	90	30
Some Hours	100,000 to 999,999 receptor hrs/yr	70	50	20
Few Hours	10,000 to 99,999 receptor-hrs/yr	40	20	10
Very Few Hours	<10,000 receptor-hrs/yr	15	10	5

Current Use Activities :

Input factors are only determined for baseline conditions for current use activities. Based on the 'Current and Future Activities' Worksheet, the Total Potential Contact Time is: **1,251,500** receptor hrs/yr

Based on the table above, this corresponds to a input factor score for baseline conditions of: **120** Score

Amount of MEC Input Factor Categories

The following table is used to determine scores associated with the Amount of MEC:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Target Area	Areas at which munitions fire was directed	180	120	30
OB/OD Area	Sites where munitions were disposed of by open burn or open detonation methods. This category refers to the core activity area of an OB/OD area. See the "Safety Buffer Areas" category for safety fans and kick-outs.	180	110	30
Function Test Range	Areas where the serviceability of stored munitions or weapons systems are tested. Testing may include components, partial functioning or complete functioning of stockpile or developmental items.	165	90	25
Burial Pit	The location of a burial of large quantities of MEC items.	140	140	10
Maneuver Areas	Areas used for conducting military exercises in a simulated conflict area or war zone	115	15	5
Firing Points	The location from which a projectile, grenade, ground signal, rocket, guided missile, or other device is to be ignited, propelled, or released.	75	10	5
Safety Buffer Areas	Areas outside of target areas, test ranges, or OB/OD areas that were designed to act as a safety zone to contain munitions that do not hit targets or to contain kick-outs from OB/OD areas.	30	10	5
Storage	Any facility used for the storage of military munitions, such as earth-covered magazines, above-ground magazines, and open-air storage areas.	25	10	5
Explosive-Related Industrial Facility	Former munitions manufacturing or demilitarization sites and TNT production plants	20	10	5

Select the category that best describes the ***most hazardous*** amount of MEC: ***Score***

Function Test Range

Baseline Conditions:	**165**
Surface Cleanup:	**90**
Subsurface Cleanup:	**25**

Minimum MEC Depth Relative to the Maximum Intrusive Depth Input Factor Categories

Current Use Activities

The shallowest minimum MEC depth, based on the 'Cased Munitions Information' Worksheet: **0** ft

The deepest intrusive depth: **0** ft

The table below is used to determine scores associated with the minimum MEC depth relative to the maximum intrusive depth:

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.	240	150	95
Baseline Condition: MEC located surface and subsurface, After Cleanup: Intrusive depth does not overlap with subsurface MEC.	240	50	25
Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth overlaps with minimum MEC depth.	150	N/A	95
Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth does not overlap with minimum MEC depth.	50	N/A	25

Because the shallowest minimum MEC depth is less than or equal to the deepest intrusive depth, the intrusive depth will overlap after cleanup. MECs are located at both the surface and subsurface, based on the 'Munitions, Bulk Explosive Info' Worksheet. Therefore, the category for this input factor is 'Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.' For 'Current Use Activities', only Baseline Conditions are considered.

240 ***Score***

Migration Potential Input Factor Categories

Is there any physical or historical evidence that indicates it is possible for natural physical forces in the area (e.g., frost heave, erosion) to expose subsurface MEC items, or move surface or subsurface MEC items? Yes

If "yes", describe the nature of natural forces. Indicate key areas of potential migration (e.g., overland water flow) on a map as appropriate (attach a map to the bottom of this sheet, or as a separate worksheet).

Frost Heave and Erosion

The following table is used to determine scores associated with the migration potential:

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Possible	30	30	10
Unlikely	10	10	10

Based on the question above, migration potential is 'Possible.'

	Score
Baseline Conditions:	**30**
Surface Cleanup:	**30**
Subsurface Cleanup:	**10**

Reference(s) for above information:

Final Remedial Investigation Report (2014)

Select Ref(s)

MEC Classification Input Factor Categories

Cased munitions information has been inputed into the 'Munitions, Bulk Explosive Info' Worksheet; therefore, bulk explosives do not comprise all MECs for this MRS.

The 'Amount of MEC' category is 'Function Test Range'. It cannot be automatically assumed that the MEC items from this category are DMM. Therefore, the conservative assumption is that the MEC items in this MRS are UXO.

Has a technical assessment shown that MEC in the OB/OD Area is DMM?

Are any of the munitions listed in the 'Munitions, Bulk Explosive Info' Worksheet: Yes

- Submunitions
- Rifle-propelled 40mm projectiles (often called 40mm grenades)
- Munitions with white phosphorus filler
- High explosive anti-tank (HEAT) rounds
- Hand grenades
- Fuzes
- Mortars

None of the items listed in the 'Munitions, Bulk Explosive Info' Worksheet were identified as 'fuzed'.

The following table is used to determine scores associated with MEC classification categories:

UXO Special Case	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
UXO Special Case	180	180	180
UXO	110	110	110
Fuzed DMM Special Case	105	105	105
Fuzed DMM	55	55	55
Unfuzed DMM	45	45	45
Bulk Explosives	45	45	45

Based on your answers above, the MEC classification is 'UXO Special Case'.

	Score
Baseline Conditions:	**180**
Surface Cleanup:	**180**
Subsurface Cleanup:	**180**

MEC Size Input Factor Categories

The following table is used to determine scores associated with MEC Size:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Small	Any munitions (from the 'Munitions, Bulk Explosive Info' Worksheet) weigh less than 90 lbs; small enough for a receptor to be able to move and initiate a detonation	40	40	40
Large	All munitions weigh more than 90 lbs; too large to move without equipment	0	0	0

Based on the definitions above and the types of munitions at the site (see 'Munitions, Bulk Explosive Info' Worksheet), the MEC Size Input Factor is: Small

	Score
Baseline Conditions:	**40**
Surface Cleanup:	**40**
Subsurface Cleanup:	**40**

Scoring Summary

Site ID:	Lakes (PICA-008-R-01)	a. Scoring Summary for Current Use Activities	
Date:	2/24/2013	Response Action Cleanup:	No Response Action
Input Factor		**Input Factor Category**	**Score**
I. Energetic Material Type		High Explosive and Low Explosive Filler in Fragmenting Rounds	100
II. Location of Additional Human Receptors		Inside the MRS or inside the ESQD arc	30
III. Site Accessibility		Full Accessibility	80
IV. Potential Contact Hours		≥1,000,000 receptor-hrs/yr	120
V. Amount of MEC		Function Test Range	165
VI. Minimum MEC Depth Relative to Maximum Intrusive Depth		Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.	240
VII. Migration Potential		Possible	30
VIII. MEC Classification		UXO Special Case	180
IX. MEC Size		Small	40
		Total Score	**985**
		Hazard Level Category	**1**

MEC HA Hazard Level Determination		
Site ID: Lakes (PICA-008-R-01)		
Date: 2/24/2013		
	Hazard Level Category	**Score**
a. Current Use Activities	1	985
b. Future Use Activities	4	515
c. Response Alternative 1:		
d. Response Alternative 2:		
e. Response Alternative 3:		
f. Response Alternative 4:		
g. Response Alternative 5:		
h. Response Alternative 6:		

Characteristics of the MRS	
Is critical infrastructure located within the MRS or within the ESQD arc?	
Are cultural resources located within the MRS or within the ESQD arc?	
Are significant ecological resources located within the MRS or within the ESQD arc?	

INACTIVE MUNITIONS WASTE PIT MRS

MEC HA Summary Information

		Comments
Site ID:	Inactive Munitions Waste Pit MRS (PICA-013-R-01)	
Date:	2/12/2014	

Please identify the single specific area to be assessed in this hazard assessment. From this point forward, all references to "site" or "MRS" refer to the specific area that you have defined.

A. Enter a unique identifier for the site:

PICA-013-R-01

Provide a list of information sources used for this hazard assessment. As you are completing the worksheets, use the "Select Ref(s)" buttons at the ends of each subsection to select the applicable information sources from the list below.

Ref. No.	Title (include version, publication date)
1	Final Remedial Investigation Report (2014)
2	Final Vapor Intrusion and Source Area Investigation (2013)
3	Final Site Inspection Report (2008)
4	Final Site Inspection at IRP Site 12 (1989)
5	
6	
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11	
12	

B. Briefly describe the site:

1. Area (include units): 21 acres
2. Past munitions-related use:

Function Test Range

Section 2.9.1 of the RI Report states the MRS was used as an ordnance testing area. "Function Test Range" is selected for this MRS over "Burial Pit" because while both apply the "Function Test range" has a higher value.

3. Current land-use activities (list all that occur):

A non-operational area on the installation that acts as a buffer between active ranges

4. Are changes to the future land-use planned? No
5. What is the basis for the site boundaries?

The boundary is based on the extent of the waste pit.

6. How certain are the site boundaries?

The site boundary is speculative based on historical information. The installation boundary is definitive.

Reference(s) for Part B:

Final Remedial Investigation Report (2014) Select Ref(s)

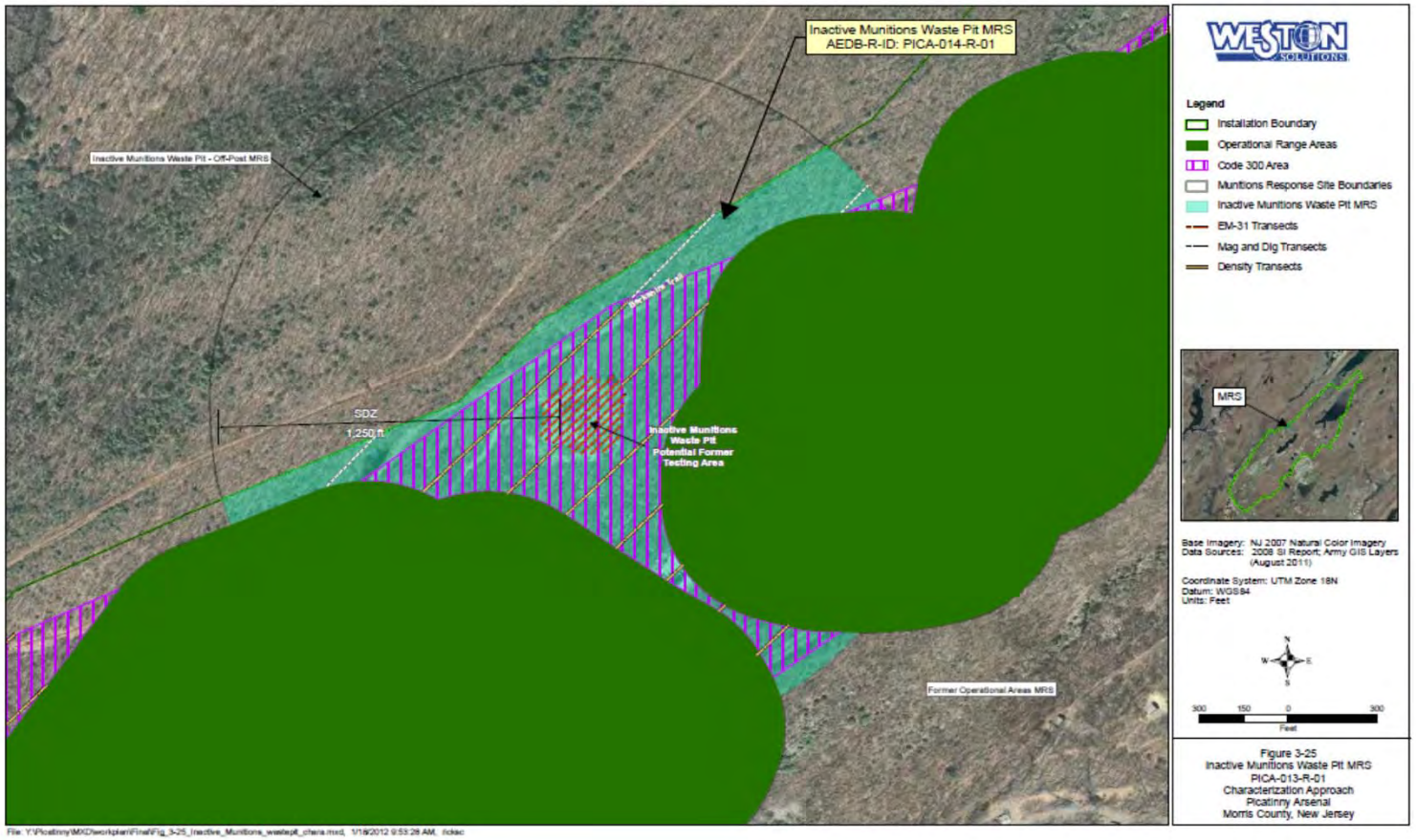
C. Historical Clearances

1. Have there been any historical clearances at the site? No, none
2. If a clearance occurred:
   a. What year was the clearance performed?
   b. Provide a description of the clearance activity (e.g., extent, depth, amount of munitions-related items removed, types and sizes of removed items, and whether metal detectors were used):

Reference(s) for Part C:

Draft Remedial Investigation Report (July 2013) Select Ref(s)

D. Attach maps of the site below (select 'Insert/Picture' on the menu bar.)



Site ID: **Inactive Munitions Waste Pit MRS (PICA-013-R-01)**
Date: **2/12/2014**

Cased Munitions Information

Item No.	Munition Type (e.g., mortar, projectile, etc.)	Munition Size	Munition Size Units	Mark/ Model	Energetic Material Type	Is Munition Fuzed?	Fuzing Type	Fuze Condition	Minimum Depth for Munition (ft)	Location of Munitions	Comments (include rationale for munitions that are "subsurface only")
1	Mines: Sea and Land			CDU-10/B gravel mine canister	High Explosive	UNK	UNK	UNK	4.5	Subsurface Only	No MEC found above 4.5'.
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

Reference(s) for table above:

Final Remedial Investigation Report (2014)

Select Ref(s)

Bulk Explosive Information

Item No.	Explosive Type	Comments
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Reference(s) for table above:

Site ID: **Inactive Munitions Waste Pit MRS (PICA-013-R-01)**
Date: **2/12/2014**

Activities Currently Occurring at the Site

Activity No.	Activity	Number of people per year who participate in the activity	Number of hours per year a single person spends on the activity	Potential Contact Time (receptor hours/year)	Maximum intrusive depth (ft)	Comments
1	A non-operational area on the installation that acts as a buffer between active ranges	100	100	**10,000**	0	Site is fenced and access in restricted.
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
			Total Potential Contact Time (receptor hrs/yr):	**10,000**		
			Maximum intrusive depth at site (ft):		**0**	

Reference(s) for table above:

Select Ref(s)

Final Remedial Investigation Report (2014)

Site ID: **Inactive Munitions Waste Pit MRS (PICA-013-R-01)**

Date: **2/12/2014**

Energetic Material Type Input Factor Categories

The following table is used to determine scores associated with the energetic materials. Materials are listed in order from most hazardous to least hazardous.

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
High Explosive and Low Explosive Filler in Fragmenting Rounds	100	100	100
White Phosphorus	70	70	70
Pyrotechnic	60	60	60
Propellant	50	50	50
Spotting Charge	40	40	40
Incendiary	30	30	30

The most hazardous type of energetic material listed in the 'Munitions, Bulk Explosive Info' Worksheet falls under the category 'High Explosive and Low Explosive Filler in Fragmenting Rounds'.

	Score
Baseline Conditions:	**100**
Surface Cleanup:	**100**
Subsurface Cleanup:	**100**

Comments

Location of Additional Human Receptors Input Factor Categories

1. What is the Explosive Safety Quantity Distance (ESQD) from the Explosive Siting Plan or the Explosive Safety Submission for the MRS? 324 feet

2. Are there currently any features or facilities where people may congregate within the MRS, or within the ESQD arc? Yes

3. Please describe the facility or feature.

State owned wildlife management area outside of the PTA boundary.

MEC Item(s) used to calculate the ESQD for current use activities

Select MEC(s)

Item #2. Fuzes (High Explosive)

The following table is used to determine scores associated with the location of additional human receptors (current use activities):

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Inside the MRS or inside the ESQD arc	30	30	30
Outside of the ESQD arc	0	0	0

4. Current use activities are 'Inside the MRS or inside the ESQD arc', based on Question 2.'

	Score
Baseline Conditions:	**30**
Surface Cleanup:	**30**
Subsurface Cleanup:	**30**

Site Accessibility Input Factor Categories

The following table is used to determine scores associated with site accessibility:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Full Accessibility	No barriers to entry, including signage but no fencing	80	80	80
Moderate Accessibility	Some barriers to entry, such as barbed wire fencing or rough terrain	55	55	55
Limited Accessibility	Significant barriers to entry, such as unguarded chain link fence or requirements for special transportation to reach the site	15	15	15
Very Limited Accessibility	A site with guarded chain link fence or terrain that requires special equipment and skills (e.g., rock climbing) to access	5	5	5

Current Use Activities ***Score***

Select the category that best describes the site accessibility under the current use scenario:

Limited Accessibility

Baseline Conditions:	**15**
Surface Cleanup:	**15**
Subsurface Cleanup:	**15**

Potential Contact Hours Input Factor Categories

The following table is used to determine scores associated with the total potential contact time:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Many Hours	≥1,000,000 receptor-hrs/yr	120	90	30
Some Hours	100,000 to 999,999 receptor hrs/yr	70	50	20
Few Hours	10,000 to 99,999 receptor-hrs/yr	40	20	10
Very Few Hours	<10,000 receptor-hrs/yr	15	10	5

Current Use Activities :

Input factors are only determined for baseline conditions for current use activities. Based on the 'Current and Future Activities' Worksheet, the Total Potential Contact Time is: **10,000** receptor hrs/yr
Based on the table above, this corresponds to a input factor score for baseline conditions of: **40** Score

Amount of MEC Input Factor Categories

The following table is used to determine scores associated with the Amount of MEC:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Target Area	Areas at which munitions fire was directed	180	120	30
OB/OD Area	Sites where munitions were disposed of by open burn or open detonation methods. This category refers to the core activity area of an OB/OD area. See the "Safety Buffer Areas" category for safety fans and kick-outs.	180	110	30
Function Test Range	Areas where the serviceability of stored munitions or weapons systems are tested. Testing may include components, partial functioning or complete functioning of stockpile or developmental items.	165	90	25
Burial Pit	The location of a burial of large quantities of MEC items.	140	140	10
Maneuver Areas	Areas used for conducting military exercises in a simulated conflict area or war zone	115	15	5
Firing Points	The location from which a projectile, grenade, ground signal, rocket, guided missile, or other device is to be ignited, propelled, or released.	75	10	5
Safety Buffer Areas	Areas outside of target areas, test ranges, or OB/OD areas that were designed to act as a safety zone to contain munitions that do not hit targets or to contain kick-outs from OB/OD areas.	30	10	5
Storage	Any facility used for the storage of military munitions, such as earth-covered magazines, above-ground magazines, and open-air storage areas.	25	10	5
Explosive-Related Industrial Facility	Former munitions manufacturing or demilitarization sites and TNT production plants	20	10	5

Select the category that best describes the ***most hazardous*** amount of MEC: ***Score***

Function Test Range

Section 2.9.1 of the RI Report states the MRS was used as an ordnance testing area. "Function Test Range" is selected for this MRS over "Burial Pit" because while both apply the "Function Test range" has a higher value.

Baseline Conditions:	**165**
Surface Cleanup:	**90**
Subsurface Cleanup:	**25**

Minimum MEC Depth Relative to the Maximum Intrusive Depth Input Factor Categories

Current Use Activities

The shallowest minimum MEC depth, based on the 'Cased Munitions Information' Worksheet: **4.5** ft

The deepest intrusive depth: **0** ft

The table below is used to determine scores associated with the minimum MEC depth relative to the maximum intrusive depth:

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.	240	150	95
Baseline Condition: MEC located surface and subsurface, After Cleanup: Intrusive depth does not overlap with subsurface MEC.	240	50	25
Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth overlaps with minimum MEC depth.	150	N/A	95
Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth does not overlap with minimum MEC depth.	50	N/A	25

Because the shallowest minimum MEC depth is greater than the deepest intrusive depth, the intrusive depth will not overlap after cleanup. MECs are located only subsurface, based on the 'Munitions, Bulk Explosive Info' Worksheet. Therefore, the category for this input factor is 'Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth does not overlap with minimum MEC depth.' For 'Current Use Activities', only Baseline Conditions are considered.

50 ***Score***

Migration Potential Input Factor Categories

Is there any physical or historical evidence that indicates it is possible for natural physical forces in the area (e.g., frost heave, erosion) to expose subsurface MEC items, or move surface or subsurface MEC items?

No

If "yes", describe the nature of natural forces. Indicate key areas of potential migration (e.g., overland water flow) on a map as appropriate (attach a map to the bottom of this sheet, or as a separate worksheet).

Frost Heave and Erosion

The following table is used to determine scores associated with the migration potential:

	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Possible	30	30	10
Unlikely	10	10	10

Based on the question above, migration potential is 'Unlikely.'

	Score
Baseline Conditions:	**10**
Surface Cleanup:	**10**
Subsurface Cleanup:	**10**

Reference(s) for above information:

Final Remedial Investigation Report (2014)

Select Ref(s)

MEC Classification Input Factor Categories

Cased munitions information has been inputed into the 'Munitions, Bulk Explosive Info' Worksheet; therefore, bulk explosives do not comprise all MECs for this MRS.

The 'Amount of MEC' category is 'Function Test Range'. It cannot be automatically assumed that the MEC items from this category are DMM. Therefore, the conservative assumption is that the MEC items in this MRS are UXO.

Has a technical assessment shown that MEC in the OB/OD Area is DMM?

Are any of the munitions listed in the 'Munitions, Bulk Explosive Info' Worksheet: No

- Submunitions
- Rifle-propelled 40mm projectiles (often called 40mm grenades)
- Munitions with white phosphorus filler
- High explosive anti-tank (HEAT) rounds
- Hand grenades
- Fuzes
- Mortars

None of the items listed in the 'Munitions, Bulk Explosive Info' Worksheet were identified as 'fuzed'.

The following table is used to determine scores associated with MEC classification categories:

UXO	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
UXO Special Case	180	180	180
UXO	110	110	110
Fuzed DMM Special Case	105	105	105
Fuzed DMM	55	55	55
Unfuzed DMM	45	45	45
Bulk Explosives	45	45	45

Based on your answers above, the MEC classification is 'UXO'.

	Score
Baseline Conditions:	**110**
Surface Cleanup:	**110**
Subsurface Cleanup:	**110**

MEC Size Input Factor Categories

The following table is used to determine scores associated with MEC Size:

	Description	Baseline Conditions	Surface Cleanup	Subsurface Cleanup
Small	Any munitions (from the 'Munitions, Bulk Explosive Info' Worksheet) weigh less than 90 lbs; small enough for a receptor to be able to move and initiate a detonation	40	40	40
Large	All munitions weigh more than 90 lbs; too large to move without equipment	0	0	0

Based on the definitions above and the types of munitions at the site (see 'Munitions, Bulk Explosive Info' Worksheet), the MEC Size Input Factor is: Small

	Score
Baseline Conditions:	**40**
Surface Cleanup:	**40**
Subsurface Cleanup:	**40**

Scoring Summary

Site ID:	**Inactive Munitions Waste Pit MRS (PICA-013-R-01)**	**a. Scoring Summary for Current Use Activities**	
Date:	**2/12/2014**	**Response Action Cleanup:**	**No Response Action**
Input Factor		**Input Factor Category**	**Score**
I. Energetic Material Type		High Explosive and Low Explosive Filler in Fragmenting Rounds	100
II. Location of Additional Human Receptors		Inside the MRS or inside the ESQD arc	30
III. Site Accessibility		Limited Accessibility	15
IV. Potential Contact Hours		10,000 to 99,999 receptor-hrs/yr	40
V. Amount of MEC		Function Test Range	165
VI. Minimum MEC Depth Relative to Maximum Intrusive Depth		Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth does not overlap with minimum MEC depth.	50
VII. Migration Potential		Unlikely	10
VIII. MEC Classification		UXO	110
IX. MEC Size		Small	40
		Total Score	**560**
		Hazard Level Category	**3**

MEC HA Hazard Level Determination		
Site ID:	Inactive Munitions Waste Pit MRS (PICA-013-R-01)	
Date:	2/12/2014	
	Hazard Level Category	Score
a. Current Use Activities	3	560
b. Future Use Activities	4	425
c. Response Alternative 1:		
d. Response Alternative 2:		
e. Response Alternative 3:		
f. Response Alternative 4:		
g. Response Alternative 5:		
h. Response Alternative 6:		

Characteristics of the MRS	
Is critical infrastructure located within the MRS or within the ESQD arc?	Yes
Are cultural resources located within the MRS or within the ESQD arc?	Yes
Are significant ecological resources located within the MRS or within the ESQD arc?	Yes

MUNITIONS AND EXPLOSIVES OF CONCERN PROBABILITY ASSESSMENT
SHELL BURIAL GROUNDS MUNITIONS RESPONSE SITE
UNITED STATES ARMY GARRISON, PICATINNY ARSENAL

1. SITE NAME/ LOCATION: Shell Burial Grounds Munitions Response Site (PICA-010-R-01)/ United States Army Garrison, Picatinny Arsenal, New Jersey.

2. DATE: 15 November 2013.

3. REFERENCE:

a. Draft Remedial Investigation Report, United States Army Garrison, Picatinny Arsenal, dated July 2013.
b. Historical Records Review, United States Army Garrison, Picatinny Arsenal, dated November 2006.
c. Site Inspection Report, United States Army Garrison, Picatinny Arsenal, dated April 2008.
d. Department of Defense (DoD), Ammunition and Explosives Safety Standards Manual 6055.09-M, Volume 7, dated February 2008.
e. U.S. Army Corps of Engineers, Explosives – Safety and Health Requirements Manual EM 385-1-97, dated May 2013.

4. SITE HISTORY AND PROJECT DESCRIPTION: United States Army Garrison, Picatinny Arsenal (Picatinny Arsenal) is located in Morris County, New Jersey approximately 45 miles west of New York City. Picatinny Arsenal is an active military installation that consists of 5,801 acres of government-operated munitions research and development facilities; operational ranges for munitions testing; residential housing; and recreational facilities and open area. Nine munitions response sites (MRS), including the Shell Burial Grounds MRS, have been identified at Picatinny Arsenal and are currently being addressed by a remedial investigation (RI) under the Military Munitions Response Program (MMRP) [reference 3(a)].

In 1926, lightning set off a series of storage magazine explosions that destroyed most of the former Lake Denmark Naval Ammunition Depot and adjacent Picatinny Arsenal. Approximately 2.4 million pounds of explosives were detonated or burned [reference 3(b)]. Three craters were formed due to the explosion. The crater locations and surrounding area now represent the extents of the Shell Burial Grounds MRS [reference 3(c)].

The craters were reportedly used to dispose of approximately 25 tons of explosives and/or munitions released during the explosion [reference 3(b)]. Subsequently, the Navy disposed of additional material in the craters until 1945, after which the craters were backfilled/covered with fill material. A 6.5 feet high chain-link fence with warning signs now surrounds the Shell Burial Grounds MRS. Picatinny Arsenal has additional land use controls in place including the issuance of safety permits for work on-post, requiring construction support as required during intrusive work, and necessitating appropriate personnel to attend safety courses.

Non-intrusive geophysical surveys were performed across the Shell Burial Grounds MRS as part of the MMRP RI [reference 3(a)]. The surveys delineated the approximate extent of subsurface burial material to 4.2 acres (**Figure 1**). It was discovered during the geophysical survey interpretation that a portion of the subsurface material extends beyond the current fence perimeter. Intrusive operations were not conducted during the RI at the Shell Burial Grounds MRS It was determined by the project delivery team (PDT) that intrusive operations would be a safety concern and mission critical facilities adjacent to the MRS would be impacted. The presence or absence of munitions and explosives of concern (MEC) in the subsurface was not confirmed. No MEC or munitions debris (MD) were observed on the ground surface. Based on historical documentation, the PDT assumes that MEC is present in the subsurface at the Shell Burial Grounds MRS.

5. PROBABILITY ASSESSMENT: This assessment is being used to determine the probability of encountering MEC at the Shell Burial Grounds MRS in lieu of a MEC Hazard Assessment since MEC has not been confirmed at the MRS. The probability will be scored as: “No probability,” “low probability”, or “moderate to high probability.” Results of the assessment will determine what action, if any, is needed in accordance with references 3(d) and 3(e).

A scoring system is used to determine the MEC probability at a MRS and is based on reference 3(e). The first score is derived from *munitions type* and can be determined by physical or historical evidence of MEC regardless of configuration. The *munitions type* scoring description is presented in **Table 1**.

Table 1 – Munitions Type

Description	Score
Physical or historical evidence suggests high/ low explosives (i.e., pyrotechnics, riot control filler, propellants, or chemical agent) regardless of configuration may be located on site.	10
Small arms ammunition. Physical or historical evidence supports that no military munitions other than small arms were used on the site.	2
Physical or historical evidence supports that no military munitions or small arms ammunition were used on site,	0

A *munitions type* score of 10 (refer to **Table 1**) was selected for the Shell Burial Grounds MRS due to the historical evidence presented in section 2. According to reference 3(b), the following material was part of the 1926 explosion and may be present within the Shell Burial Grounds MRS:

- TNT
- 25-pound Navy Mark I bombs, loaded and plugged
- Mark II, III, IV, and V bombs, each loaded with TNT
- Bomb accessories (e.g. fins, tails)
- Aerial bombs, TNT center section

- 14-inch Class “B,” loaded and fuzed
- 14-inch armor piercing rounds, loaded and fuzed
- 8-inch shells, loaded and fuzed
- 5-inch shells, loaded and fuzed

Although not listed in the historical documents, 3-inch, 4-inch, and 6-inch common projectiles were also present at Picatinny Arsenal at the time of the 1926 explosion [reference 3(a)].

A *hazard source* score is also derived for a MRS as presented in **Table 2**. The *hazard score* is based on the physical or historical evidence of previous MRS usage including MEC burial.

Table 2 – Hazard Source

Description	Score
Physical or historical evidence supports the site is a former or active range (practice or live), for open burning/open detonation of munitions, munitions burial pit, or the site is a former or active munitions maintenance, manufacturing, or demilitarization facility.	5
Physical or historical evidence supports the site was a firing point, munitions storage or transfer point, or small arms range.	2
Physical or historical evidence supports that no military munitions or small arms ammunition were used on site,	0

A *hazard source* score of 5 (refer to **Table 2**) was selected for the Shell Burial Grounds MRS due to the historical evidence presented in section 2. The craters left by the 1926 explosion were reportedly used to dispose of approximately 25 tons of explosives and/or munitions. The Navy also continued to dispose of additional material in the craters until 1945.

The *munitions type* score and *hazard source* score are combined to determine the final MEC assessment for a MRS as presented in **Table 3**.

Table 3 – MEC Assessment

Description	Probability
Combined score from Tables 1 and 2 = 8 – 15.	“Moderate to high probability” for encountering MEC.
Combined score from Tables 1 and 2 = 1 – 7.	“Low probability” for encountering MEC.
Combined score from Tables 1 and 2 = 0.	“No probability” for encountering

	MEC.

The Shell Burial Grounds MRS has a *munitions type* score of 10 and a *hazard source* score of 5 (cumulative score of 15) which equates to a “moderate to high probability” for encountering MEC (refer to **Table 3**). In accordance with reference 3(e), a “moderate to high probability” of encountering MEC means any activity within the MRS must be conducted using anomaly avoidance techniques or unexploded ordnance (UXO)-qualified personnel must attempt to identify and remove any explosive hazards prior to any intrusive activities. Before the removal action begins, a Department of Defense Explosives Safety Board approved Explosives Safety Submission will be required prior to additional soil disturbance activities that cannot be achieved using anomaly avoidance techniques.

6. RECOMMENDATIONS: It is recommended that any future activities at the Shell Burial Grounds MRS proceed as a “moderate to high probability” for encountering MEC. Based on the MMRP RI results [reference 3(a)], the Shell Burial Ground MRS is also recommended for a Feasibility Study to address explosive hazards that are assumed to be present at the MRS due to historical accounts but not directly confirmed during previous studies.

7. SIGNATURES:

Safety Representative

Installation Commander (or designee)

APPENDIX P

MRSPP

1926 EXPLOSION RADIUS MRS

Table A
MRS Background Information

DIRECTIONS: Record the background information below for the Munitions Response Site (MRS) to be evaluated. Much of this information is available from Service and DoD databases. If the MRS is located on a FUDS property, the suitable FUDS property information should be substituted. In the **MRS Summary**, briefly describe the UXO, DMM, or MC that are known or suspected to be present, the exposure setting (the MRS's physical environment), any other incidental nonmunitions-related contaminants (e.g., benzene, trichloroethylene) found at the MRS, and any potentially exposed human and ecological receptors. If possible, include a map of the MRS.

Munitions Response Site Name/AEDB-R #: 1926 Explosion Radius (PICA-003-R-01)

Component: Army

Installation/Property Name: Picatinny Arsenal, NJ

Location (City, County, State): Morris County, New Jersey

Site Name/Project Name (Project No.): 1926 Explosion Radius / Picatinny Arsenal RI (038160030000)

Date Information Entered/Updated: November 2013

Preparer's Name/Organization/Phone: Layne Young, ARCADIS-US, Inc (410.332.4806)

Point of Contact (Name/Phone): Nancy Flaherty (410.779.2796)

Project Phase (check only one):

❑ PA	❑ SI	✠ RI	❑ FS	❑ RD
❑ RA-C	❑ RIP	❑ RA-O	❑ RC	❑ LTM

Media Evaluated (check all that apply):

❑ Groundwater	❑ Sediment (human receptor)
❑ Surface soil	❑ Surface Water (ecological receptor)
❑ Sediment (ecological receptor)	❑ Surface Water (human receptor)

MRS Summary:

MRS Description: Describe the munitions-related activities that occurred at the installation, the dates of operation, and the Unexploded Ordnance (UXO), Discarded Military Munitions (DMM), or Munitions Constituents (MC) known or suspected to be present. When possible, identify munitions, CWM, and MC by type.

The 1926 Explosion Radius Munitions Response Site (MRS) (PICA-003-R-01) consists of the on-post area within a 1-mile radius around the center of an explosion that occurred in 1926. Much of this MRS, located in the center of Picatinny Arsenal (PTA), is developed and includes portions of downtown PTA and the golf course, as well as several waterbodies, including the EOD Pond and portions of Green Pond Brook, Fisher's Pond, North Basin, and South Basin. Approximately 40 installation restoration program (IRP) sites are partially or wholly located within this MRS. This MRS does not include off-post property, areas that are within operational ranges, or areas identified as separate MRSs.

The Lake Denmark Naval Ammunition Depot, which was located on what is currently the eastern portion of PTA, near Picatinny Lake, was used by the Navy from the late 1800s to the 1960s, mainly for storage of materials such as high explosives (HE), smokeless powder, black powder, and projectiles. Reportedly, the Navy property contained between 160 and 200 buildings; approximately 40 to 50 of these were used for explosives storage. On 10 July 1926, lightning struck the southwest end of the depot, setting off a series of explosions. According to a historical report, it was estimated that 2.5 million pounds of the following explosives detonated in the explosion: trinitrotoluene (TNT); 25-pound Navy Mark I bombs, loaded and plugged; Mark II, III, IV, and V bombs, each loaded with TNT; Bomb accessories (*e.g.*, fins, tails); Aerial bombs, TNT center section; 14-inch Class "B," loaded and fuzed; 14-inch armor-piercing (AP) rounds, loaded and fuzed; 8-inch shells, loaded and fuzed; 5-inch shells, loaded and fuzed. In addition, explosive D

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burned but did not detonate (*The History of Picatinny Arsenal*, March 31, 1931). Although not listed in the historical documents, 3-inch, 4-inch, and 6-inch common projectiles are also associated with the 1926 explosion. These munitions and explosives of concern (MEC) have been found during time-critical removal actions conducted for PTA within the explosion radius (Section 5.1.1.5 Military Munitions Response Program [MMRP] RI Report).

In addition to the explosion, four other potential MEC release mechanisms were identified for portions of this MRS. However, as described below, it was subsequently determined that there is no MEC release mechanism for the Former Projectile Range, because it was likely used only for inert projectiles. A separate potential MEC release mechanism was identified for the Code 300 Area and Green Pond Brook.

- **Green Pond Brook** - Green Pond Brook, which is approximately 22,400 linear feet, flows southwest from the outfall of Picatinny Lake through the center of Picatinny Arsenal (PTA). Munitions and explosives of concern (MEC) have been found protruding from, and buried alongside, the banks of that portion of Green Pond Brook that is located within the 1926 Explosion Radius MRS.

- **Former DRMO Yard** – From the 1920s to the 1940s, a portion of the DRMO Yard was used as a burning ground for smokeless powder and trinitrotoluene. From 1955 until 1988 the Former DRMO Yard was used as a storage yard for the disposal, salvage, and sale of excess materials including materials used in the manufacturing and testing of explosives, pyrotechnics and munitions; potential polychlorinated biphenyl-containing transformers; vehicles; scrap metal; batteries; and office equipment (Final Proposed Plan, Sites 31 and 101 (PICA 072), Former DRMO Yard and Former Gas Station, September 2007).

- **Former Projectile Range -** This former range, constructed in 1943, is located near the northern boundary of the 1926 Explosion Radius MRS. The range was less than one acre in size and consisted of a covered firing point (Building 622) and a slug butt (Building 646) near the northwestern portion of Picatinny Lake adjacent to operational range and numerous buildings. It is unknown when the range was last utilized; however, it appears to be active on a 1951 aerial photograph and is overgrown with vegetation on a 1963 aerial photograph. Firing on the range was directed from west to east. Although no information is available to indicate the specific types of munitions used on the range, based on the size and configuration of the range (*i.e.*, it is a short range with a stationary firing point and target), it is assumed that the range was used only to conduct impact testing of 20mm, 37mm, and 40mm inert projectiles (*Organization and Personnel History of the Technical Group Period from January 1, 1942 to April 1, 1943*, June 4, 1943).

- **Code 300 Artillery Firing and Fragmentation Pattern Testing Area (Code 300 Area)** - According to a 1973 report, in 1973 PTA had 975 acres of land on the northwestern portion of the installation used for the artillery firing of shells up to 155mm, as well as for fragmentation pattern testing. Although a large portion of the Code 300 Area is located within operational ranges, portions of it fall within both the 1926 Explosion Radius MRS and the Former Operational Areas MRS. The firing point and target area are not discussed in the 1973 report, and no other information is currently available regarding this area (*DoD, Executive Order 11508 Installation Survey Report, Picatinny Arsenal, Dover, New Jersey*, January 1973). During the RI, investigations in the Code 300 Area did not indicate the presence of an impact area within the 1926 Explosion Radius MRS (Section 5.1.1.4.1.2 MMRP RI Report).

A significant amount of MEC that is unrelated to the 1926 explosion or the Code 300 Area is located within this MRS. The release mechanism is unknown; however, it is assumed that many of these items were discarded. According to PTA's safety office, the following items, which are not related to the 1926 explosion, have been found within the site in 1967 and between 1986 and 1998: 2.75-inch HE; 3-inch HE; 20-mm HE, inert, target practice tracer; 37-mm AP, 40-mm HE, dual purpose, practice; 57-mm cartridges, 60-mm inert mortars, 90-mm inert projectiles, 105-mm inert, HE; , BDU63, inert, blasting caps, bomb live unit (BLU) 26; BLU 33; BLU 42; flash grenades; fuzes; bulk HE; various mines, M42 grenades; M51 fuzes; M557 fuzes; and various pyrotechnics (PTA Safety Office UXO Finds Map).

During the MMRP RI investigation, the following material potentially presenting an explosive hazard (MPPEH) were found within the 1926 Explosion Radius MRS (Section 5.1.1.3 MMRP RI Report).

<u>Related to 1926 Explosion</u>

- 1 – 6-inch naval projectile
- 1 – 5-inch AP round
- 3 – BD MK2 fuzes
- 2 – MK1 point detonating fuzes with boosters

<u>DMM of Unknown Origin</u>

- 1 – 105mm HEAT projectile
- 5 – fuze components found in a pit
- 1 – base fuze
- 2 – 37mm projectiles
- 2 – 3-inch MK1 practice Stokes mortars

- 2 – World War I 75mm projectiles practice and shrapnel

MC Summary

For the MMRP RI, biased MC sampling was proposed for this MRS; however, biased MC sampling was not required since field observation of the MEC found did not indicate any potential releases. Therefore, MC exposure pathways are incomplete.

Description of Receptors (Human and Ecological):

This site covers a large portion of PTA and includes hundreds of buildings used for manufacturing, storage, testing, R&D, administration, and military housing. PTA currently employs approximately 3,900 people; approximately 750 military personnel and immediate family members reside at the on-post housing. While the majority of the 1926 Explosion Radius MRS is developed, there are some undeveloped areas consisting of patches of forest, wetlands, lakes, ponds, and streams. Waterbodies within the radius of the 1926 Explosion MRS include most of Picatinny Lake (which is a separate MRS), EOD Pond, North and South basins, Fisher's Pond, Bear Swamp Brook, Green Pond Brook, and several small streams. With the exception of Picatinny Lake, which is not part of this MRS, none of these waterbodies are used for recreation.

PTA contains the largest tract of undeveloped, forested public land in the New Jersey Highlands Region. The collective acreage of PTA's undeveloped lands that are contiguous with adjacent public lands and safety easements on adjacent private properties is 11,368 acres. The connectivity between undeveloped parcels provides important habitat for wildlife species with large home ranges, and it facilitates species migration and recruitment. The unbroken forested area may provide seasonal habitat for the federally listed endangered Indiana bat (*Myotis sodalis*) as they were documented in 1993 and 1994 hibernating in abandoned mines within 2 miles (3,219 meters) of PTA. It is also believed that the Indiana bat depends on PTA for summer habitat. According to a Screening Level Ecological Report for Site 54 at PTA, a summer roost area for the Indiana bat is located in Area J near the G-2 Pond, which is located outside the 1926 Explosion Radius MRS.

No federally threatened or endangered plant species have been documented at PTA. Seven state listed endangered plants are found at PTA; four occur in Lake Denmark (which is a separate MRS), and three are associated with wetlands on the installation. The state listed stiff clubmoss (*Lycopodium annotinum*) was recently documented and found in only a few colonies at PTA. One federally listed threatened animal, the bog turtle (*Clemmys muhlenburgii*), is known to occur at PTA. The last documented sighting of a bog turtle was in the shrub-swamp wetlands associated with Green Pond in 1987 (USAEC, 2001; New Jersey Department of Environmental Protection (NJDEP), 2011).

State listed endangered wildlife species at PTA include the bog turtle, timber rattlesnake (*Crotalus horridus*), red-shouldered hawk (*Buteo lineatus*), and bobcat (*Felis rufus*). Twelve state listed threatened species occur at PTA; only four are permanent residents, while the other eight are species of migratory birds.

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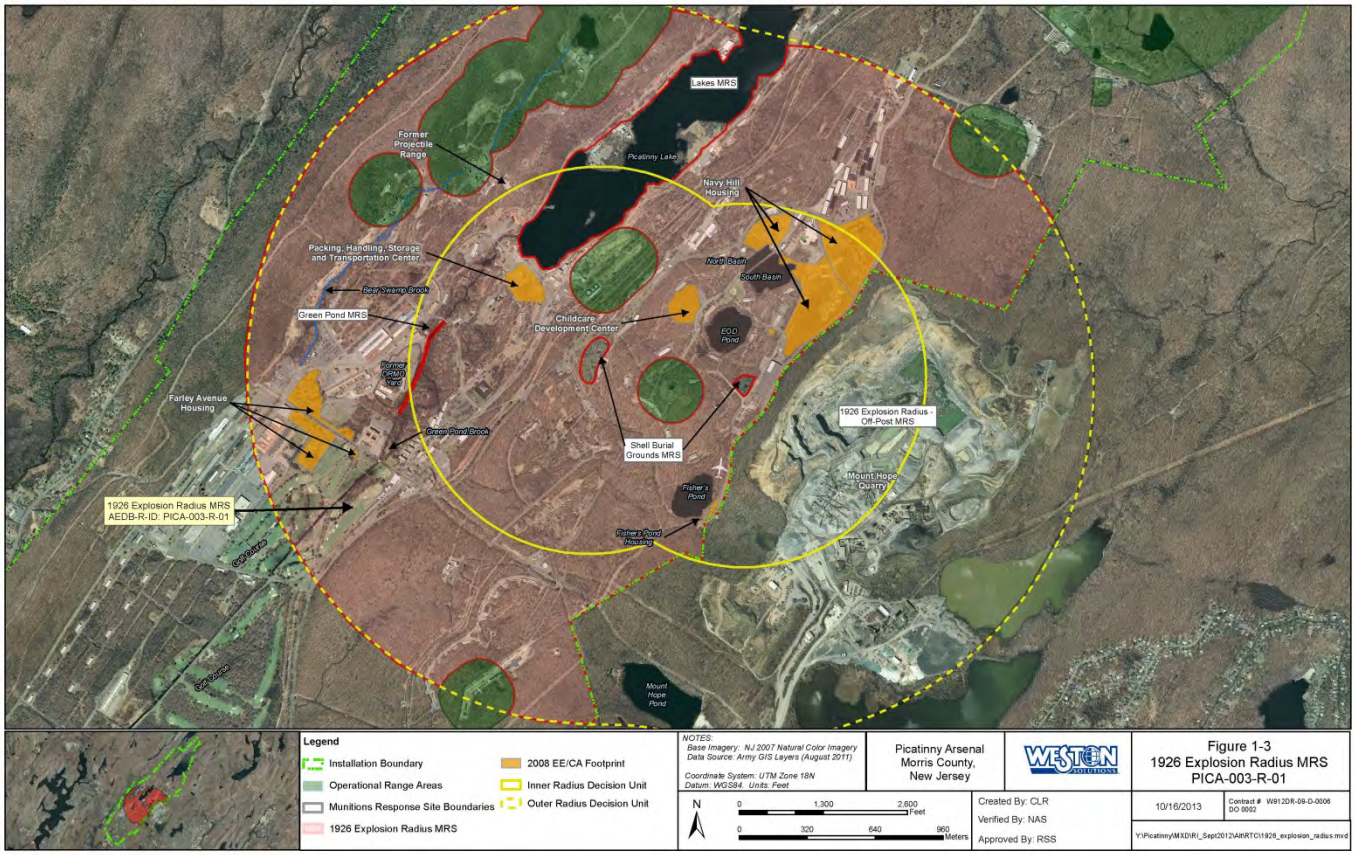

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1926 Explosion Radius
PICA-003-R-01

Table 1

EHE Module: Munitions Type Data Element Table

DIRECTIONS: Below are 11 classifications of munitions and their descriptions. Circle the scores that correspond with **all** the munitions types known or suspected to be present at the MRS.

Note: The terms *practice munitions, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Sensitive	◆ UXO that are considered most likely to function upon any interaction with exposed persons (e.g., submunitions, 40mm high-explosive [HE] grenades, white phosphorus [WP] munitions, high-explosive antitank [HEAT] munitions, and practice munitions with sensitive fuzes, but excluding all other practice munitions). ◆ Hand grenades containing energetic filler. ◆ Bulk primary explosives, or mixtures of these with environmental media, such that the mixture poses an explosive hazard.	**30**
High explosive (used or damaged)	◆ UXO containing a high-explosive filler (e.g., RDX, Composition B), that are not considered "sensitive." ◆ DMM containing a high-explosive filler that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	**25**
Pyrotechnic (used or damaged)	◆ UXO containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades). ◆ DMM containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades) that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	20
High explosive (unused)	◆ DMM containing a high-explosive filler that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	**15**
Propellant	◆ UXO containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor) that are: ▪ Damaged by burning or detonation ▪ Deteriorated to the point of instability.	**15**
Bulk secondary high explosives, pyrotechnics, or propellant	◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM that are bulk secondary high explosives, pyrotechnic compositions, or propellant (not contained in a munitions), or mixtures of these with environmental media such that the mixture poses an explosive hazard.	10
Pyrotechnic (not used or damaged)	◆ DMM containing a pyrotechnic filler (i.e., red phosphorus), other than white phosphorus filler, that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	10
Practice	◆ UXO that are practice munitions that are not associated with a sensitive fuze. ◆ DMM that are practice munitions that are not associated with a sensitive fuze and that have not: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	**5**
Riot control	◆ UXO or DMM containing a riot control agent filler (e.g., tear gas).	3
Small arms	◆ Used munitions or DMM that are categorized as small arms ammunition. (Physical evidence or historical evidence that no other types of munitions [e.g., grenades, subcaliber training rockets, demolition charges] were used or are present on the MRS is required for selection of this category.)	2
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	0
MUNITIONS TYPE	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**30**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Munitions Type*** classifications in the space provided.

In 1926 a series of lightning-induced explosions occurred in numerous munitions storage magazines. A list of the munitions stored in the magazines at the time of the explosion is given in Table A, Background Information. During the MMRP RI, the following MEC were found (Section 6.2 MMRP RI Report). Due to the presence of the 105mm HEAT, a maximum classification of sensitive was selected.

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Table 1

EHE Module: Munitions Type Data Element Table

DIRECTIONS: Below are 11 classifications of munitions and their descriptions. Circle the scores that correspond with **all** the munitions types known or suspected to be present at the MRS.

Note: The terms *practice munitions, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
	• Six fuzes, likely associated with the 1926 explosion • One 6-inch naval projectile, which is associated with the 1926 explosion • One 5-inch AP round, which is associated with the 1926 explosion • One 105mm HEAT projectile, which is not associated with the 1926 explosion. While the origin of this projectile is unknown, it was located in an area that appeared to be used for disposal of metallic debris. • Five fuzes found within a burn pit. The source of these fuzes is unknown. • Two 37mm projectiles, which are not associated with the 1926 explosion • Two 3-inch MK1 practice Stokes mortar, which are not associated with the 1926 explosion • Two World War I 75mm projectiles, which are not associated with the 1926 explosion	

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Table 2

EHE Module: Source of Hazard Data Element Table

DIRECTIONS: Below are 11 classifications describing sources of explosive hazards. Circle the scores that correspond with **all** the sources of explosive hazards known or suspected to be present at the MRS.

Note: The terms *former range, practice munitions, small arms range, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Former range	◆ The MRS is a former military range where munitions (including practice munitions with sensitive fuzes) have been used. Such areas include impact or target areas and associated buffer and safety zones.	10
Former munitions treatment (i.e., OB/OD) unit	◆ The MRS is a location where UXO or DMM (e.g., munitions, bulk explosives, bulk pyrotechnic, or bulk propellants) were burned or detonated for the purpose of treatment prior to disposal.	**8**
Former practice munitions range	◆ The MRS is a former military range on which only practice munitions without sensitive fuzes were used.	6
Former maneuver area	◆ The MRS is a former maneuver area where no munitions other than flares, simulators, smokes, and blanks were used. There must be evidence that no other munitions were used at the location to place an MRS into this category.	5
Former burial pit or other disposal area	◆ The MRS is a location where DMM were buried or disposed of (e.g., disposed of into a water body) without prior thermal treatment.	5
Former industrial operating facilities	◆ The MRS is a location that is a former munitions maintenance, manufacturing, or demilitarization facility.	4
Former firing points	◆ The MRS is a firing point, where the firing point is delineated as an MRS separate from the rest of a former military range.	4
Former missile or air defense artillery emplacements	◆ The MRS is a former missile defense or air defense artillery (ADA) emplacement not associated with a military range.	2
Former storage or transfer points	◆ The MRS is a location where munitions were stored or handled for transfer between different modes of transportation (e.g., rail to truck, truck to weapon system).	**2**
Former small arms range	◆ The MRS is a former military range where only small arms ammunition was used. (There must be evidence that no other types of munitions [e.g., grenades] were used or are present to place an MRS into this category.)	1
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that no UXO or DMM are present, or there is historical evidence indicating that no UXO or DMM are present.	0
SOURCE OF HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**8**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Source of Hazard*** classifications in the space provided.

The references for all of these are from Section 6.2 of the MMRP RI Report.

1. OB/OD – Although this was not an OB/OD site, this category was selected since the area where the actual explosion occurred is similar to an OB/OD and not OB/OD safety buffer category is available.
2. Former Storage or Transfer Points - The AOI Former DRMO Yard, located within this MRS, was used for the storage of waste materials, including pyrotechnics and munitions.

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Table 3

EHE Module: Location of Munitions Data Element Table

DIRECTIONS: Below are eight classifications of munitions locations and their descriptions. Circle the scores that correspond with **all** the locations where munitions are known or suspected to be present at the MRS.

Note: The terms *confirmed, surface, subsurface, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Confirmed surface	◆ Physical evidence indicates that there are UXO or DMM on the surface of the MRS. ◆ Historical evidence (i.e., a confirmed report such as an explosive ordnance disposal [EOD], police, or fire department report that an incident or accident that involved UXO or DMM occurred) indicates there are UXO or DMM on the surface of the MRS.	**25**
Confirmed subsurface, active	◆ Physical evidence indicates the presence of UXO or DMM in the subsurface of the MRS, and the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose UXO or DMM. ◆ Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS and the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose UXO or DMM.	**20**
Confirmed subsurface, stable	◆ Physical evidence indicates the presence of UXO or DMM in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed. ◆ Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed.	15
Suspected (physical evidence)	◆ There is physical evidence (e.g., munitions debris such as fragments, penetrators, projectiles, shell casings, links, fins), other than the documented presence of UXO or DMM, indicating that UXO or DMM may be present at the MRS.	10
Suspected (historical evidence)	◆ There is historical evidence indicating that UXO or DMM may be present at the MRS.	5
Subsurface, physical constraint	◆ There is physical or historical evidence indicating that UXO or DMM may be present in the subsurface, but there is a physical constraint (e.g., pavement, water depth over 120 feet) preventing direct access to the UXO or DMM.	2
Small arms (regardless of location)	◆ The presence of small arms ammunition is confirmed or suspected, regardless of other factors such as geological stability. (There must be evidence that no other types of munitions [e.g., grenades] were used or are present at the MRS to place an MRS into this category.)	1
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	0
LOCATION OF MUNITIONS	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 25).	**25**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Location of Munitions*** classifications in the space provided.

MPPEH associated with the explosion have been found at depths up to 48 inches feet bgs; however, the majority of the MPPEH (102 of 104 or 98%) have been found at a maximum depth of 24 inches below ground surface (bgs) (Section 5.1.1.5 MMRP RI Report).

- During the 2008 engineering evaluation/cost analysis (EE/CA), 43 MPPEH were found at a maximum depth of 24 inches bgs. Numerous items were found within the first inch and are considered to have been found on the ground surface.
- The MPPEH found during the RI were found at depths varying from the surface to 12 inches bgs. Two items (5-inch and 6-inch projectile) were found on the ground surface.

It is possible for natural processes to result in the movement, relocation, or unearthing of MEC. The topography of the 1926 Explosion Radius MRS varies from steep slopes to low-lying wetlands and water bodies. The steep sloped areas are prone to

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Table 3

EHE Module: Location of Munitions Data Element Table

DIRECTIONS: Below are eight classifications of munitions locations and their descriptions. Circle the scores that correspond with **all** the locations where munitions are known or suspected to be present at the MRS.

Note: The terms *confirmed, surface, subsurface, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
erosion, shown by the amount of talus/debris witnessed at the bottom of cliffs and hills during the RI activities. The composition of the soils varies across the MRS, with some areas (sands and muck) prone to frost heave and others (gravelly stone areas) with a low potential. The MEC was identified above the frost line (3 feet) and the soils contained within the area range from muck to sandy loams and are moderately susceptible to frost heave. Therefore, surface interactions such as wet/dry erosion and frost heave are likely to impact source material.		

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Table 4

EHE Module: Ease of Access Data Element Table

DIRECTIONS: Below are four classifications of barrier types that can surround an MRS and their descriptions. The barrier type is directly related to the ease of public access to the MRS. Circle the score that corresponds with the ease of access to the MRS.

Note: The term *barrier* is defined in Appendix C of the Primer.

Classification	Description	Score
No barrier	◆ There is no barrier preventing access to any part of the MRS (i.e., all parts of the MRS are accessible).	10
Barrier to MRS access is incomplete	◆ There is a barrier preventing access to parts of the MRS, but not the entire MRS.	**8**
Barrier to MRS access is complete but not monitored	◆ There is a barrier preventing access to all parts of the MRS, but there is no surveillance (e.g., by a guard) to ensure that the barrier is effectively preventing access to all parts of the MRS.	5
Barrier to MRS access is complete and monitored	◆ There is a barrier preventing access to all parts of the MRS, and there is active, continual surveillance (e.g., by a guard, video monitoring) to ensure that the barrier is effectively preventing access to all parts of the MRS.	0
EASE OF ACCESS	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**8**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ease of Access*** classification in the space provided.

Access to the majority of the 1926 Explosion Radius MRS, including the AOI Code 300 Area, is not restricted once on the installation. Access to portions of the MRS (*i.e.*, the enclosure area) is restricted with a gated fence with a guard (Section 3.2 MMRP RI Report).

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Table 5

EHE Module: Status of Property Data Element Table

DIRECTIONS: Below are three classifications of the status of a property within the Department of Defense (DoD) and their descriptions. Circle the score that corresponds with the status of property at the MRS.

Classification	Description	Score
Non-DoD control	◆ The MRS is at a location that is no longer owned by, leased to, or otherwise possessed or used by DoD. Examples are privately owned land or water bodies; land or water bodies owned or controlled by state, tribal, or local governments; and land or water bodies managed by other federal agencies. ◆ The MRS is at a location that is owned by DoD, but that DoD has leased to another entity and for which DoD does not control access 24 hours per day.	5
Scheduled for transfer from DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD, and DoD plans to transfer that land or water body to the control of another entity (e.g., a state, tribal, or local government; a private party; another federal agency) within 3 years from the date the Protocol is applied.	3
DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD. With respect to property that is leased or otherwise possessed, DoD must control access to the MRS 24 hours per day, every day of the calendar year.	**0**
STATUS OF PROPERTY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Status of Property*** classification in the space provided.

This MRS is located on land owned by DoD; therefore, DoD control was selected (MMRP RI Report Section 3.2).

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Table 6

EHE Module: Population Density Data Element Table

DIRECTIONS: Below are three classifications for population density and their descriptions. Determine the population density per square mile that most closely corresponds with the population of the MRS, including the area within a two-mile radius of the MRS's perimeter. Circle the most appropriate score.

Note: Use the U.S. Census Bureau tract data available to capture the **highest** population density within a two-mile radius of the perimeter of the MRS.

Classification	Description	Score
> 500 persons per square mile	◆ There are more than 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	5
100–500 persons per square mile	◆ There are 100 to 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	**3**
< 100 persons per square mile	◆ There are fewer than 100 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	1
POPULATION DENSITY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**3**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Density*** classification in the space provided.

According to the census bureau website, in the 2000 census there were 148 people per square mile in the census tract associated with that portion of Rockaway Township that falls within a 2-mile radius of this MRS' perimeter and 310 people per square mile in the census tract associated with that portion of Jefferson Township that falls within a 2-mile radius of this MRS' perimeter (www.census.gov).

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Table 7

EHE Module: Population Near Hazard Data Element Table

DIRECTIONS: Below are six classifications describing the number of inhabited structures near the MRS. The number of inhabited buildings relates to the potential population near the MRS. Determine the number of inhabited structures within two miles of the MRS boundary and circle the score that corresponds with the number of inhabited structures.

Note: The term *inhabited structures* is defined in Appendix C of the Primer.

Classification	Description	Score
26 or more inhabited structures	◆ There are 26 or more inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	**5**
16 to 25 inhabited structures	◆ There are 16 to 25 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	4
11 to 15 inhabited structures	◆ There are 11 to 15 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	3
6 to 10 inhabited structures	◆ There are 6 to 10 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	2
1 to 5 inhabited structures	◆ There are 1 to 5 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	1
0 inhabited structures	◆ There are no inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	0
POPULATION NEAR HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Near Hazard*** classification in the space provided.

This MRS has hundreds of buildings used for various purposes, including manufacturing, storage, testing, R&D, administration, and housing. The MRS also contains parking lots, recreational areas, and undeveloped property (Section 3.2 MMRP RI Report).

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Table 8

EHE Module: Types of Activities/Structures Data Element Table

DIRECTIONS: Below are five classifications of activities and/or inhabited structures and their descriptions. Review the types of activities that occur and/or structures that are present within two miles of the MRS and circle the scores that correspond with **all** the activities/structure classifications at the MRS.

Note: The term *inhabited structure* is defined in Appendix C of the Primer.

Classification	Description	Score
Residential, educational, commercial, or subsistence	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with any of the following purposes: residential, educational, child care, critical assets (e.g., hospitals, fire and rescue, police stations, dams), hotels, commercial, shopping centers, playgrounds, community gathering areas, religious sites, or sites used for subsistence hunting, fishing, and gathering.	**5**
Parks and recreational areas	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with parks, nature preserves, or other recreational uses.	**4**
Agricultural, forestry	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with agriculture or forestry.	3
Industrial or warehousing	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with industrial activities or warehousing.	**2**
No known or recurring activities	◆ There are no known or recurring activities occurring up to two miles from the MRS's boundary or within the MRS's boundary.	1
TYPES OF ACTIVITIES/STRUCTURES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Types of Activities/Structures*** classifications in the space provided.

This MRS has hundreds of buildings used for various purposes, including manufacturing, storage, testing, R&D, administration, and housing. The MRS also contains parking lots, recreational areas, and undeveloped property (Section 3.2 MMRP RI Report).

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Table 9

EHE Module: Ecological and/or Cultural Resources Data Element Table

DIRECTIONS: Below are four classifications of ecological and/or cultural resources and their descriptions. Review the types of resources present and circle the score that corresponds with the ecological and/or cultural resources present on the MRS.

Note: The terms *ecological resources* and *cultural resources* are defined in Appendix C of the Primer.

Classification	Description	Score
Ecological and cultural resources present	◆ There are both ecological and cultural resources present on the MRS.	**5**
Ecological resources present	◆ There are ecological resources present on the MRS.	3
Cultural resources present	◆ There are cultural resources present on the MRS.	3
No ecological or cultural resources present	◆ There are no ecological resources or cultural resources present on the MRS.	0
ECOLOGICAL AND/OR CULTURAL RESOURCES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ecological and/or Cultural Resources*** classification in the space provided.

Although the majority of this MRS is developed, there are some undeveloped areas consisting of wetlands, lakes, ponds, and streams. Patches of forest, wetlands, and lakes used by state threatened and endangered plants and animals are present in this MRS. The MRS is located in both a Highlands Preservation Area and a Highlands Planning Area. According to the NJDEP i-Map Landscape Project layer, this MRS contains habitat with at least one occurrence of a state-threatened species (bog turtle). The PTA Administration and Research District in downtown PTA is identified by the New Jersey Historic Preservation Office (NJHPO) as a cultural resource (Section 3.2 MMRP RI Report).

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Table 10
Determining the EHE Module Rating

DIRECTIONS:

1. From Tables 1–9, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **EHE Module Total** box below.
4. Circle the appropriate range for the **EHE Module Total** below.
5. Circle the **EHE Module Rating** that corresponds to the range selected and record this value in the **EHE Module Rating** box found at the bottom of the table.

Note:
An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
Explosive Hazard Factor Data Elements			
Munitions Type	Table 1	**30**	**38**
Source of Hazard	Table 2	**8**	
Accessibility Factor Data Elements			
Location of Munitions	Table 3	**25**	**33**
Ease of Access	Table 4	**8**	
Status of Property	Table 5	**0**	
Receptor Factor Data Elements			
Population Density	Table 6	**3**	**18**
Population Near Hazard	Table 7	**5**	
Types of Activities/Structures	Table 8	**5**	
Ecological and/or Cultural Resources	Table 9	**5**	
EHE MODULE TOTAL			**89**

EHE Module Total	EHE Module Rating
92 to 100	A
82 to 91	**B**
71 to 81	C
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected Explosive Hazard
EHE MODULE RATING	**B**

Table 11

CHE Module: CWM Configuration Data Element Table

DIRECTIONS: Below are seven classifications of CWM configuration and their descriptions. Circle the scores that correspond with **all** the CWM configurations known or suspected to be present at the MRS.

Note: The terms *CWM/UXO, CWM/DMM, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
CWM, that are either UXO, or explosively configured damaged DMM	The CWM known or suspected of being present at the MRS are: ◆ CWM that are UXO (i.e., CWM/UXO) ◆ Explosively configured CWM that are DMM (i.e., CWM/DMM) that have been damaged.	30
CWM mixed with UXO	◆ The CWM known or suspected of being present at the MRS are undamaged CWM/DMM or CWM not configured as a munition that are commingled with conventional munitions that are UXO.	25
CWM, explosive configuration that are undamaged DMM	◆ The CWM known or suspected of being present at the MRS are explosively configured CWM/DMM that have not been damaged.	20
CWM/DMM, not explosively configured or CWM, bulk container	The CWM known or suspected of being present at the MRS are: ◆ Nonexplosively configured CWM/DMM either damaged or undamaged ◆ Bulk CWM (e.g., ton container).	15
CAIS K941 and CAIS K942	◆ The CWM/DMM known or suspected of being present at the MRS are CAIS K941-toxic gas set M-1 or CAIS K942-toxic gas set M-2/E11.	12
CAIS (chemical agent identification sets)	◆ CAIS, other than CAIS K941 and K942, are known or suspected of being present at the MRS.	10
Evidence of no CWM	◆ Following investigation, the physical evidence indicates that CWM are not present at the MRS, or the historical evidence indicates that CWM are not present at the MRS.	**0**
CWM CONFIGURATION	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the *CWM Configuration* classifications in the space provided.

No known or suspected CWM hazard has been reported at the 1926 Explosion Radius MRS. In addition, there is no evidence of CWM use throughout PTA's history (MMRP SI Report Section 2).

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Tables 12-19

No known or suspected CWM hazard is expected at this site. Therefore, Tables 12 through 19 have been intentionally omitted according to Active Army Guidance.

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Table 20
Determining the CHE Module Rating

DIRECTIONS:

1. From Tables 11–19, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **CHE Module Total** box below.
4. Circle the appropriate range for the **CHE Module Total** below.
5. Circle the **CHE Module Rating** that corresponds to the range selected and record this value in the **CHE Module Rating** box found at the bottom of the table.

Note:
An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
CWM Hazard Factor Data Elements			
CWM Configuration	Table 11	0	0
Sources of CWM	Table 12	-	
Accessibility Factor Data Elements			
Location of CWM	Table 13	-	-
Ease of Access	Table 14	-	
Status of Property	Table 15	-	
Receptor Factor Data Elements			
Population Density	Table 16	-	-
Population Near Hazard	Table 17	-	
Types of Activities/Structures	Table 18	-	
Ecological and/or Cultural Resources	Table 19	-	
CHE MODULE TOTAL			0

CHE Module Total	CHE Module Rating
92 to 100	A
82 to 91	B
71 to 81	C
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected CWM Hazard
CHE MODULE RATING	**No Known or Suspected CWM Hazard**

Table 21

HHE Module: Groundwater Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's groundwater and their comparison values (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant ratios together, including any additional groundwater contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the groundwater, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No groundwater samples were collected from this MRS during the MMRP RI. In addition, groundwater throughout the installation is being addressed under the IRP and will not be included in the Active Army MMRP Program (Installation Action Plan, 2011).			

CHF Scale	CHF Value	Sum The Ratios
CHF > 100	H (High)	$CHF = \Sigma \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$
100 > CHF > 2	M (Medium)	
2 > CHF	L (Low)	

CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).	

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the groundwater is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the groundwater to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater receptors at the MRS.

Classification	Description	Value
Identified	There is a threatened water supply well downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer).	H
Potential	There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer).	M
Limited	There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only).	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Groundwater MC Hazard	☑

Table 22

HHE Module: Surface Water – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value.** Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF,** use the **CHF Scale** to determine and record the **CHF Value.** If there is no known or suspected MC hazard with human endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No surface water data were collected under the MMRP RI for this MRS.			
CHF Scale	**CHF Value**	**Sum The Ratios**	
CHF > 100	**H (High)**	$CHF = \Sigma \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	
	No Known or Suspected Surface Water (Human Endpoint) MC Hazard	☑

Table 23

HHE Module: Sediment – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with human endpoints present in the sediment, select the box at the bottom of the table.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
No sediment data were collected under the MMRP RI investigation for this MRS.			
CHF Scale	**CHF Value**	**Sum The Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Sediment (Human Endpoint) MC Hazard ☑

Table 24

HHE Module: Surface Water – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No surface water data were collected under the MMRP RI investigation for this MRS.			

CHF Scale	CHF Value	Sum the Ratios
CHF > 100	H (High)	$CHF = \Sigma \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$
100 > CHF > 2	M (Medium)	
2 > CHF	L (Low)	

CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).	

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Surface Water (Ecological Endpoint) MC Hazard ☑

Table 25

HHE Module: Sediment – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the sediment, select the box at the bottom of the table.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
No sediment data were collected under the MMRP RI investigation for this MRS.			
CHF Scale	**CHF Value**	**Sum the Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Sediment (Ecological Endpoint) MC Hazard ☑

Table 26

HHE Module: Surface Soil Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface soil and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface soil contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the surface soil, select the box at the bottom of the table. .

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratio
No soil samples were collected for this MRS under the MMRP RI.			

CHF Scale	CHF Value	Sum the Ratios	
CHF > 100	**H (High)**	**CHF = Σ**	[Maximum Concentration of Contaminant] [Comparison Value for Contaminant]
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		

CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).	**-**

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface soil is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface soil has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface soil to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	-

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface soil to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface soil to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface soil to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**-**
	No Known or Suspected Surface Soil MC Hazard	☑

Table 27

HHE Module: Supplemental Contaminant Hazard Factor Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Only use this table if there are more than five contaminants in any given medium present at the MRS. This is a supplemental table designed to hold information about contaminants that do not fit in the previous tables. Indicate the **media** in which these contaminants are present. Then record all **contaminants**, their **maximum concentrations** and their **comparison values** (from Appendix B of the Primer) in the table below. Calculate and record the **ratio** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** for each medium on the appropriate media-specific tables.

Note: Do not add ratios from different media.

Media	Contaminant	Maximum Concentration	Comparison Value	Ratio

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Table 28

Determining the HHE Module Rating

DIRECTIONS:

1. Record the letter values (H, M, L) for the **Contaminant Hazard**, **Migration Pathway**, and **Receptor Factors** for the media (from Tables 21–26) in the corresponding boxes below.
2. Record the media's three-letter combinations in the **Three-Letter Combination** boxes below (three-letter combinations are arranged from Hs to Ms to Ls).
3. Using the **HHE Ratings** provided below, determine each media's rating (A–G) and record the letter in the corresponding **Media Rating** box below.

Media (Source)	**Contaminant Hazard Factor Value**	**Migratory Pathway Factor Value**	**Receptor Factor Value**	Three-Letter Combination (Hs-Ms-Ls)	Media Rating (A-G)
Groundwater (Table 21)	-	-	-	-	-
Surface Water/Human Endpoint (Table 22)	-	-	-	-	-
Sediment/Human Endpoint (Table 23)	-	-	-	-	-
Surface Water/Ecological Endpoint (Table 24)	-	-	-	-	-
Sediment/Ecological Endpoint (Table 25)	-	-	-	-	-
Surface Soil (Table 26)	-	-	-	-	-

DIRECTIONS (cont.):

4. Select the single highest Media Rating (A is highest; G is lowest) and enter the letter in the **HHE Module Rating** box.

Note:

An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more media, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

HHE MODULE RATING	-

HHE Ratings (for reference only)

Combination	**Rating**
HHH	A
HHM	B
HHL	C
HMM	C
HML	D
MMM	D
HLL	E
MML	E
MLL	F
LLL	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected MC Hazard

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Table 29
MRS Priority

DIRECTIONS: In the chart below, circle the letter **rating** for each module recorded in Table 10 (EHE), Table 20 (CHE), and Table 28 (HHE). Circle the corresponding numerical **priority** for each module. If information to determine the module rating is not available, choose the appropriate alternative module rating. The MRS Priority is the single highest priority; record this relative priority in the **MRS Priority or Alternative MRS Rating** at the bottom of the table.

Note: An MRS assigned Priority 1 has the highest relative priority; an MRS assigned Priority 8 has the lowest relative priority. Only an MRS with CWM known or suspected to be present can be assigned Priority 1; an MRS that has CWM known or suspected to be present cannot be assigned Priority 8.

EHE Rating	Priority	CHE Rating	Priority	HHE Rating	Priority
		A	**1**		
A	**2**	**B**	**2**	**A**	**2**
B	**3**	**C**	**3**	B	3
C	**4**	**D**	**4**	**C**	**4**
D	**5**	**E**	**5**	**D**	**5**
E	**6**	**F**	**6**	**E**	**6**
F	**7**	**G**	**7**	**F**	**7**
G	**8**			**G**	**8**
Evaluation Pending		Evaluation Pending		Evaluation Pending	
No Longer Required		No Longer Required		No Longer Required	
No Known or Suspected Explosive Hazard		**No Known or Suspected CWM Hazard**		**No Known or Suspected MC Hazard**	
MRS PRIORITY or ALTERNATIVE MRS RATING				**3**	

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1926 EXPLOSION RADIUS – OFF-POST MRS

Table A
MRS Background Information

DIRECTIONS: Record the background information below for the Munitions Response Site (MRS) to be evaluated. Much of this information is available from Service and DoD databases. If the MRS is located on a FUDS property, the suitable FUDS property information should be substituted. In the **MRS Summary**, briefly describe the UXO, DMM, or MC that are known or suspected to be present, the exposure setting (the MRS's physical environment), any other incidental nonmunitions-related contaminants (e.g., benzene, trichloroethylene) found at the MRS, and any potentially exposed human and ecological receptors. If possible, include a map of the MRS.

Munitions Response Site Name/AEDB-R #: 1926 Explosion Radius – Off-Post (PICA-004-R-01)

Component: Army

Installation/Property Name: Picatinny Arsenal, NJ

Location (City, County, State): Morris County, New Jersey

Site Name/Project Name (Project No.): 1926 Explosion Radius Off-Post / Picatinny Arsenal RI (038160030000)

Date Information Entered/Updated: November 2013

Preparer's Name/Organization/Phone: Layne Young, ARCADIS-US, Inc (410.332.4806)

Point of Contact (Name/Phone): Nancy Flaherty (410.779.2796)

Project Phase (check only one):

❑ PA	❑ SI	✠ RI	❑ FS	❑ RD
❑ RA-C	❑ RIP	❑ RA-O	❑ RC	❑ LTM

Media Evaluated (check all that apply):

❑ Groundwater	❑ Sediment (human receptor)
❑ Surface soil	❑ Surface Water (ecological receptor)
❑ Sediment (ecological receptor)	❑ Surface Water (human receptor)

MRS Summary:

MRS Description: Describe the munitions-related activities that occurred at the installation, the dates of operation, and the Unexploded Ordnance (UXO), Discarded Military Munitions (DMM), or Munitions Constituents (MC) known or suspected to be present.

This Munitions Response Site (MRS) consists of all off-post properties that fall within a 1-mile radius of the explosion center of the Lake Denmark Naval Ammunition Depot. The Lake Denmark Naval Ammunition Depot, which was located on what is currently the eastern portion of Picatinny Arsenal (PTA), near Picatinny Lake, was used by the Navy from the late 1800s to the 1960s, mainly for storage of materials such as high explosives (HE), smokeless powder, black powder, and projectiles. Reportedly, the Navy property contained between 160 and 200 buildings; approximately 40 to 50 of these were used for explosives storage. On 10 July 1926, lightning struck the southwest end of the depot, setting off a series of explosions. According to a historical report, it was estimated that 2.5 million pounds of the following explosives detonated in the explosion: trinitrotoluene (TNT); 25-pound Navy Mark I bombs, loaded and plugged; Mark II, III, IV, and V bombs, each loaded with TNT; Bomb accessories (*e.g.*, fins, tails); Aerial bombs, TNT center section; 14-inch Class "B," loaded and fuzed; 14-inch armor-piercing (AP) rounds, loaded and fuzed; 8-inch shells, loaded and fuzed; 5-inch shells, loaded and fuzed. In addition, explosive D burned but did not detonate (*The History of Picatinny Arsenal*, March 31, 1931). Although not listed in the historical documents, 3-inch, 4-inch, and 6-inch common projectiles are also associated with the 1926 explosion. These munitions and explosives of concern (MEC) have been found during time-critical removal actions (TCRA) conducted for PTA within the explosion radius (Section 5.1.1.5 Military Munitions Response Program

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[MMRP] RI Report).

The 1926 Explosion Site – Off-Post consists of vacant land and commercial property, including the Mt. Hope Quarry, which covers the largest area (approximately 80%) of this MRS. The quarry is located adjacent to PTA on the eastern side of the fence line that marks the installation boundary. Numerous 4,-5, and 6-inch HE Navy Shells have been found on the quarry. Three TCRAs have been conducted at Mt. Hope Quarry. During TCRA I, which covered 22.6 acres of the quarry, 25 MEC were recovered; 21 of these contained HE and the other four items were inert (empty) munitions debris. These items were found at depths ranging from 0 to 48 inches below ground surface (bgs). During TCRA III, which covered 4.3 acres of the quarry, 33 MEC were found at depths less than 24 inches bgs. No MEC were found during TCRA II (Section 5.1.1.5 MMRP RI Report).

During the MMRP RI investigation, no MPPEH were found in the 1926 Explosion Radius – Off-Post MRS (Section 5.1.1.2 MMRP RI Report).

MC Summary

No samples have been collected from this MRS. For the MMRP RI, biased MC sampling was proposed for this MRS; however, biased MC sampling was not required since field observation of the MEC found did not indicate any potential releases. Therefore, MC exposure pathways are incomplete.

Description of Receptors (Human and Ecological):

This site includes several buildings associated with commercial businesses; the largest business is Mt. Hope Quarry. Mt. Hope Pond and a portion of Hope Lake are also located within this MRS. Although a majority of the site is disturbed due to quarrying operations, portions of it are vacant and include wetlands and lakes as well as forested areas containing deciduous trees. A portion of this site is located in the Highlands Preservation Area. While no specific ecological receptors have been identified, according to NJDEP's i-Map Landscape Project layer, the MRS contains habitat with at least one occurrence of a state-threatened species (Section 6.3.1 MMRP RI Report).

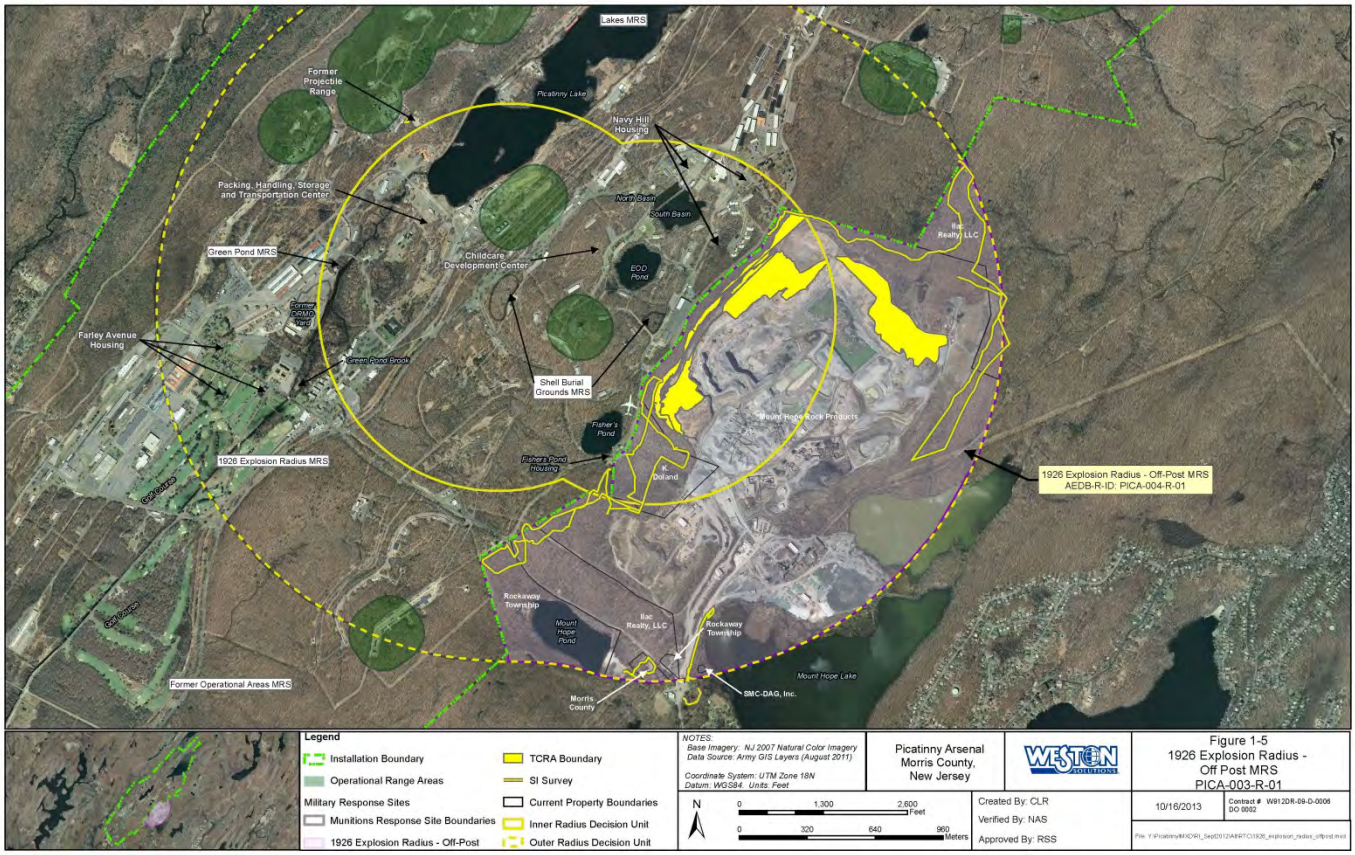

Table 1

EHE Module: Munitions Type Data Element Table

DIRECTIONS: Below are 11 classifications of munitions and their descriptions. Circle the scores that correspond with **all** the munitions types known or suspected to be present at the MRS.

Note: The terms *practice munitions, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Sensitive	◆ UXO that are considered most likely to function upon any interaction with exposed persons (e.g., submunitions, 40mm high-explosive [HE] grenades, white phosphorus [WP] munitions, high-explosive antitank [HEAT] munitions, and practice munitions with sensitive fuzes, but excluding all other practice munitions). ◆ Hand grenades containing energetic filler. ◆ Bulk primary explosives, or mixtures of these with environmental media, such that the mixture poses an explosive hazard.	**30**
High explosive (used or damaged)	◆ UXO containing a high-explosive filler (e.g., RDX, Composition B), that are not considered "sensitive." ◆ DMM containing a high-explosive filler that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	25
Pyrotechnic (used or damaged)	◆ UXO containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades). ◆ DMM containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades) that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	20
High explosive (unused)	◆ DMM containing a high-explosive filler that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	15
Propellant	◆ UXO containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor) that are: ▪ Damaged by burning or detonation ▪ Deteriorated to the point of instability.	15
Bulk secondary high explosives, pyrotechnics, or propellant	◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM that are bulk secondary high explosives, pyrotechnic compositions, or propellant (not contained in a munitions), or mixtures of these with environmental media such that the mixture poses an explosive hazard.	10
Pyrotechnic (not used or damaged)	◆ DMM containing a pyrotechnic filler (i.e., red phosphorus), other than white phosphorus filler, that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	10
Practice	◆ UXO that are practice munitions that are not associated with a sensitive fuze. ◆ DMM that are practice munitions that are not associated with a sensitive fuze and that have not: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	5
Riot control	◆ UXO or DMM containing a riot control agent filler (e.g., tear gas).	3
Small arms	◆ Used munitions or DMM that are categorized as small arms ammunition. (Physical evidence or historical evidence that no other types of munitions [e.g., grenades, subcaliber training rockets, demolition charges] were used or are present on the MRS is required for selection of this category.)	2
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	0
MUNITIONS TYPE	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**30**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Munitions Type*** classifications in the space provided.

In 1926 a series of lightning-induced explosions occurred in numerous munitions storage magazines. A listing of the munitions stored in the magazines at the time of the explosion is included in Table A, Background Information. Three time critical removal actions (TCRA) were conducted at the quarry located within this MRS (Section 6.2 MMRP RI Report). During these TCRAs fuzes were found; therefore, sensitive was selected (TCRA III Report Addendum, October 2007). A visual survey of approximately 15 acres was

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conducted during the SI, in areas surrounding the Mount Hope Quarry. No MEC or MD was identified during the visual survey (Section 2.3.2.2 MMRP RI Report).

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Table 2

EHE Module: Source of Hazard Data Element Table

DIRECTIONS: Below are 11 classifications describing sources of explosive hazards. Circle the scores that correspond with **all** the sources of explosive hazards known or suspected to be present at the MRS.

Note: The terms *former range, practice munitions, small arms range, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Former range	◆ The MRS is a former military range where munitions (including practice munitions with sensitive fuzes) have been used. Such areas include impact or target areas and associated buffer and safety zones.	10
Former munitions treatment (i.e., OB/OD) unit	◆ The MRS is a location where UXO or DMM (e.g., munitions, bulk explosives, bulk pyrotechnic, or bulk propellants) were burned or detonated for the purpose of treatment prior to disposal.	**8**
Former practice munitions range	◆ The MRS is a former military range on which only practice munitions without sensitive fuzes were used.	6
Former maneuver area	◆ The MRS is a former maneuver area where no munitions other than flares, simulators, smokes, and blanks were used. There must be evidence that no other munitions were used at the location to place an MRS into this category.	5
Former burial pit or other disposal area	◆ The MRS is a location where DMM were buried or disposed of (e.g., disposed of into a water body) without prior thermal treatment.	5
Former industrial operating facilities	◆ The MRS is a location that is a former munitions maintenance, manufacturing, or demilitarization facility.	4
Former firing points	◆ The MRS is a firing point, where the firing point is delineated as an MRS separate from the rest of a former military range.	4
Former missile or air defense artillery emplacements	◆ The MRS is a former missile defense or air defense artillery (ADA) emplacement not associated with a military range.	2
Former storage or transfer points	◆ The MRS is a location where munitions were stored or handled for transfer between different modes of transportation (e.g., rail to truck, truck to weapon system).	**2**
Former small arms range	◆ The MRS is a former military range where only small arms ammunition was used. (There must be evidence that no other types of munitions [e.g., grenades] were used or are present to place an MRS into this category.)	1
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that no UXO or DMM are present, or there is historical evidence indicating that no UXO or DMM are present.	0
SOURCE OF HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**8**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Source of Hazard*** classifications in the space provided.

1. OB/OD – Although this was not an OB/OD site, this category was selected since the area where the actual explosion occurred is similar to an OB/OD and not OB/OD safety buffer category is available.
2. Storage was also selected since this the MEC associated with this MRS was stored in numerous storage magazines before being released as part of the 1926 explosion (MMRP RI Report Section 5.1.1).

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Table 3

EHE Module: Location of Munitions Data Element Table

DIRECTIONS: Below are eight classifications of munitions locations and their descriptions. Circle the scores that correspond with **all** the locations where munitions are known or suspected to be present at the MRS.

Note: The terms *confirmed, surface, subsurface, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Confirmed surface	◆ Physical evidence indicates that there are UXO or DMM on the surface of the MRS. ◆ Historical evidence (i.e., a confirmed report such as an explosive ordnance disposal [EOD], police, or fire department report that an incident or accident that involved UXO or DMM occurred) indicates there are UXO or DMM on the surface of the MRS.	**25**
Confirmed subsurface, active	◆ Physical evidence indicates the presence of UXO or DMM in the subsurface of the MRS, and the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose UXO or DMM. ◆ Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS and the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose UXO or DMM.	**20**
Confirmed subsurface, stable	◆ Physical evidence indicates the presence of UXO or DMM in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed. ◆ Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed.	15
Suspected (physical evidence)	◆ There is physical evidence (e.g., munitions debris such as fragments, penetrators, projectiles, shell casings, links, fins), other than the documented presence of UXO or DMM, indicating that UXO or DMM may be present at the MRS.	10
Suspected (historical evidence)	◆ There is historical evidence indicating that UXO or DMM may be present at the MRS.	5
Subsurface, physical constraint	◆ There is physical or historical evidence indicating that UXO or DMM may be present in the subsurface, but there is a physical constraint (e.g., pavement, water depth over 120 feet) preventing direct access to the UXO or DMM.	2
Small arms (regardless of location)	◆ The presence of small arms ammunition is confirmed or suspected, regardless of other factors such as geological stability. (There must be evidence that no other types of munitions [e.g., grenades] were used or are present at the MRS to place an MRS into this category.)	1
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	0
LOCATION OF MUNITIONS	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 25).	**25**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Location of Munitions*** classifications in the space provided.

- During Time Critical Removal Action (TCRA) I, 25 MPPEH were found; 14 items were less than one foot bgs, nine items were between one to two feet bgs, and two items were at depths greater than two feet (26 inches and 48 inches). One 6-inch projectile was found within the first inch and is considered to have been found on the ground surface.
- During TCRA III, 33 MPPEH were found from the ground surface to depths less than two feet bgs.

It is possible for natural processes to result in the movement, relocation, or unearthing of MEC. The topography of this

Table 3

EHE Module: Location of Munitions Data Element Table

DIRECTIONS: Below are eight classifications of munitions locations and their descriptions. Circle the scores that correspond with **all** the locations where munitions are known or suspected to be present at the MRS.

Note: The terms *confirmed, surface, subsurface, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
MRS varies from steep slopes to low-lying wetlands and water bodies. The steep sloped areas are prone to erosion, shown by the amount of talus/debris witnessed at the bottom of cliffs and hills during the RI activities. The composition of the soils varies across the MRS, with some areas (sands and muck) prone to frost heave and others (gravelly stone areas) with a low potential. The MEC was identified above the frost line (3 feet) and the soils contained within the area range from muck to sandy loams and are moderately susceptible to frost heave. Therefore, surface interactions such as wet/dry erosion and frost heave are likely to impact source material.		

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Table 4

EHE Module: Ease of Access Data Element Table

DIRECTIONS: Below are four classifications of barrier types that can surround an MRS and their descriptions. The barrier type is directly related to the ease of public access to the MRS. Circle the score that corresponds with the ease of access to the MRS.

Note: The term *barrier* is defined in Appendix C of the Primer.

Classification	Description	Score
No barrier	◆ There is no barrier preventing access to any part of the MRS (i.e., all parts of the MRS are accessible).	10
Barrier to MRS access is incomplete	◆ There is a barrier preventing access to parts of the MRS, but not the entire MRS.	**8**
Barrier to MRS access is complete but not monitored	◆ There is a barrier preventing access to all parts of the MRS, but there is no surveillance (e.g., by a guard) to ensure that the barrier is effectively preventing access to all parts of the MRS.	5
Barrier to MRS access is complete and monitored	◆ There is a barrier preventing access to all parts of the MRS, and there is active, continual surveillance (e.g., by a guard, video monitoring) to ensure that the barrier is effectively preventing access to all parts of the MRS.	0
EASE OF ACCESS	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**8**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ease of Access*** classification in the space provided.

The MRS is located outside the secured PTA boundary. With the exception of the quarry, which has a guarded gate at the main entrance and signs posted along the perimeter of the property, the off-post properties are not secured (Section 6.3.1 MMRP RI Report).

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Table 5

EHE Module: Status of Property Data Element Table

DIRECTIONS: Below are three classifications of the status of a property within the Department of Defense (DoD) and their descriptions. Circle the score that corresponds with the status of property at the MRS.

Classification	Description	Score
Non-DoD control	◆ The MRS is at a location that is no longer owned by, leased to, or otherwise possessed or used by DoD. Examples are privately owned land or water bodies; land or water bodies owned or controlled by state, tribal, or local governments; and land or water bodies managed by other federal agencies. ◆ The MRS is at a location that is owned by DoD, but that DoD has leased to another entity and for which DoD does not control access 24 hours per day.	**5**
Scheduled for transfer from DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD, and DoD plans to transfer that land or water body to the control of another entity (e.g., a state, tribal, or local government; a private party; another federal agency) within 3 years from the date the Protocol is applied.	3
DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD. With respect to property that is leased or otherwise possessed, DoD must control access to the MRS 24 hours per day, every day of the calendar year.	0
STATUS OF PROPERTY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Status of Property*** classification in the space provided.

The property associated with this MRS has never been owned by, leased to, or otherwise possessed or used by DoD. The MRS contains vacant land and several businesses, including Mount Hope Quarry, which comprises approximately 80% (634 acres) of the MRS (RI Report Section 5.1.1).

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Table 6

EHE Module: Population Density Data Element Table

DIRECTIONS: Below are three classifications for population density and their descriptions. Determine the population density per square mile that most closely corresponds with the population of the MRS, including the area within a two-mile radius of the MRS's perimeter. Circle the most appropriate score.

Note: Use the U.S. Census Bureau tract data available to capture the **highest** population density within a two-mile radius of the perimeter of the MRS.

Classification	Description	Score
> 500 persons per square mile	◆ There are more than 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	5
100–500 persons per square mile	◆ There are 100 to 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	**3**
< 100 persons per square mile	◆ There are fewer than 100 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	1
POPULATION DENSITY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**3**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Density*** classification in the space provided.

According to the census bureau website, in the 2000 census there were 148 people per square mile in the census tract associated with that portion of Rockaway Township that falls within a 2-mile radius of this MRS' perimeter and 310 people per square mile in the census tract associated with that portion of Jefferson Township that falls within a 2-mile radius of this MRS' perimeter (www.census.gov).

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Table 7

EHE Module: Population Near Hazard Data Element Table

DIRECTIONS: Below are six classifications describing the number of inhabited structures near the MRS. The number of inhabited buildings relates to the potential population near the MRS. Determine the number of inhabited structures within two miles of the MRS boundary and circle the score that corresponds with the number of inhabited structures.

Note: The term *inhabited structures* is defined in Appendix C of the Primer.

Classification	Description	Score
26 or more inhabited structures	◆ There are 26 or more inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	**5**
16 to 25 inhabited structures	◆ There are 16 to 25 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	4
11 to 15 inhabited structures	◆ There are 11 to 15 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	3
6 to 10 inhabited structures	◆ There are 6 to 10 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	2
1 to 5 inhabited structures	◆ There are 1 to 5 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	1
0 inhabited structures	◆ There are no inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	0
POPULATION NEAR HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Near Hazard*** classification in the space provided.

The MRS contains vacant land and several businesses, including Mount Hope Quarry, which comprises approximately 80% (634 acres) of the MRS. The current land use is industrial and recreational with some vacant land. However, PTA, which is located within two miles of the MRS has hundreds of buildings used for a variety of purposes, including manufacturing, storage, testing, R&D, administration, and military housing (Section 6.3 MMRP RI Report).

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Table 8

EHE Module: Types of Activities/Structures Data Element Table

DIRECTIONS: Below are five classifications of activities and/or inhabited structures and their descriptions. Review the types of activities that occur and/or structures that are present within two miles of the MRS and circle the scores that correspond with **all** the activities/structure classifications at the MRS.

Note: The term *inhabited structure* is defined in Appendix C of the Primer.

Classification	Description	Score
Residential, educational, commercial, or subsistence	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with any of the following purposes: residential, educational, child care, critical assets (e.g., hospitals, fire and rescue, police stations, dams), hotels, commercial, shopping centers, playgrounds, community gathering areas, religious sites, or sites used for subsistence hunting, fishing, and gathering.	**5**
Parks and recreational areas	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with parks, nature preserves, or other recreational uses.	**4**
Agricultural, forestry	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with agriculture or forestry.	3
Industrial or warehousing	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with industrial activities or warehousing.	**2**
No known or recurring activities	◆ There are no known or recurring activities occurring up to two miles from the MRS's boundary or within the MRS's boundary.	1
TYPES OF ACTIVITIES/STRUCTURES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Types of Activities/Structures*** classifications in the space provided.

Within the boundary of this site and/or within a two mile radius of this site are residential dwellings, including military housing for PTA personnel and their families, a child care center, fire and rescue services, a golf course and other recreational areas on PTA, parks and recreational areas in Rockaway Township, and industrial buildings. (Section 6.3 MMRP RI Report).

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Table 9

EHE Module: Ecological and/or Cultural Resources Data Element Table

DIRECTIONS: Below are four classifications of ecological and/or cultural resources and their descriptions. Review the types of resources present and circle the score that corresponds with the ecological and/or cultural resources present on the MRS.

Note: The terms *ecological resources* and *cultural resources* are defined in Appendix C of the Primer.

Classification	Description	Score
Ecological and cultural resources present	◆ There are both ecological and cultural resources present on the MRS.	**5**
Ecological resources present	◆ There are ecological resources present on the MRS.	3
Cultural resources present	◆ There are cultural resources present on the MRS.	3
No ecological or cultural resources present	◆ There are no ecological resources or cultural resources present on the MRS.	0
ECOLOGICAL AND/OR CULTURAL RESOURCES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ecological and/or Cultural Resources*** classification in the space provided.

Both forested and wetland areas are present in the MRS. No specific ecological receptors are identified; however, according to NJDEP's i-Map Landscape Project layer, the MRS contains habitat with at least one occurrence of a state-threatened species. The Mount Hope Mine Historic District and the Ford-Faesch Manor House, both located on Mount Hope Road, have been identified by the NJHPO as historic places, and the bed of the Mount Hope Mine Railroad, which runs through the site, is identified by NJHPO as a cultural resource (Section 6.3 MMRP RI Report).

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Table 10
Determining the EHE Module Rating

DIRECTIONS:

1. From Tables 1–9, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **EHE Module Total** box below.
4. Circle the appropriate range for the **EHE Module Total** below.
5. Circle the **EHE Module Rating** that corresponds to the range selected and record this value in the **EHE Module Rating** box found at the bottom of the table.

Note:
An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
Explosive Hazard Factor Data Elements			
Munitions Type	Table 1	**30**	**38**
Source of Hazard	Table 2	**8**	
Accessibility Factor Data Elements			
Location of Munitions	Table 3	**25**	**38**
Ease of Access	Table 4	**8**	
Status of Property	Table 5	**5**	
Receptor Factor Data Elements			
Population Density	Table 6	**3**	**18**
Population Near Hazard	Table 7	**5**	
Types of Activities/Structures	Table 8	**5**	
Ecological and/or Cultural Resources	Table 9	**5**	
EHE MODULE TOTAL			**94**

EHE Module Total	EHE Module Rating
92 to 100	**A**
82 to 91	B
71 to 81	C
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected Explosive Hazard
EHE MODULE RATING	**B**

Table 11

CHE Module: CWM Configuration Data Element Table

DIRECTIONS: Below are seven classifications of CWM configuration and their descriptions. Circle the scores that correspond with **all** the CWM configurations known or suspected to be present at the MRS.

Note: The terms *CWM/UXO, CWM/DMM, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
CWM, that are either UXO, or explosively configured damaged DMM	The CWM known or suspected of being present at the MRS are: ◆ CWM that are UXO (i.e., CWM/UXO) ◆ Explosively configured CWM that are DMM (i.e., CWM/DMM) that have been damaged.	30
CWM mixed with UXO	◆ The CWM known or suspected of being present at the MRS are undamaged CWM/DMM or CWM not configured as a munition that are commingled with conventional munitions that are UXO.	25
CWM, explosive configuration that are undamaged DMM	◆ The CWM known or suspected of being present at the MRS are explosively configured CWM/DMM that have not been damaged.	20
CWM/DMM, not explosively configured or CWM, bulk container	The CWM known or suspected of being present at the MRS are: ◆ Nonexplosively configured CWM/DMM either damaged or undamaged ◆ Bulk CWM (e.g., ton container).	15
CAIS K941 and CAIS K942	◆ The CWM/DMM known or suspected of being present at the MRS are CAIS K941-toxic gas set M-1 or CAIS K942-toxic gas set M-2/E11.	12
CAIS (chemical agent identification sets)	◆ CAIS, other than CAIS K941 and K942, are known or suspected of being present at the MRS.	10
Evidence of no CWM	◆ Following investigation, the physical evidence indicates that CWM are not present at the MRS, or the historical evidence indicates that CWM are not present at the MRS.	**0**
CWM CONFIGURATION	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the *CWM Configuration* classifications in the space provided.

No known or suspected CWM hazard has been reported at the 1926 Explosion Radius – Off-Post MRS. In addition, there is no evidence of CWM use throughout PTA's history (MMRP SI Report Section 2).

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Tables 12-19

No known or suspected CWM hazard is expected at this site. Therefore, Tables 12 through 19 have been intentionally omitted according to Active Army Guidance.

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Table 20
Determining the CHE Module Rating

DIRECTIONS:

1. From Tables 11–19, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **CHE Module Total** box below.
4. Circle the appropriate range for the **CHE Module Total** below.
5. Circle the **CHE Module Rating** that corresponds to the range selected and record this value in the **CHE Module Rating** box found at the bottom of the table.

Note:
An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
CWM Hazard Factor Data Elements			
CWM Configuration	Table 11	0	0
Sources of CWM	Table 12	-	
Accessibility Factor Data Elements			
Location of CWM	Table 13	-	-
Ease of Access	Table 14	-	
Status of Property	Table 15	-	
Receptor Factor Data Elements			
Population Density	Table 16	-	-
Population Near Hazard	Table 17	-	
Types of Activities/Structures	Table 18	-	
Ecological and/or Cultural Resources	Table 19	-	
CHE MODULE TOTAL			0

CHE Module Total	CHE Module Rating
92 to 100	A
82 to 91	B
71 to 81	C
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected CWM Hazard
CHE MODULE RATING	**No Known or Suspected CWM Hazard**

Table 21

HHE Module: Groundwater Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's groundwater and their comparison values (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant ratios together, including any additional groundwater contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the groundwater, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No groundwater samples were collected for this MRS under the MMRP RI.			
CHF Scale	**CHF Value**	**Sum The Ratios**	
CHF > 100	**H (High)**	$CHF = \Sigma \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the groundwater is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the groundwater to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater receptors at the MRS.

Classification	Description	Value
Identified	There is a threatened water supply well downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer).	H
Potential	There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer).	M
Limited	There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only).	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Groundwater MC Hazard ☐

Table 22

HHE Module: Surface Water – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value.** Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF,** use the **CHF Scale** to determine and record the **CHF Value.** If there is no known or suspected MC hazard with human endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No surface water samples were collected for this MRS under the MMRP RI.			
CHF Scale	**CHF Value**	**Sum The Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Surface Water (Human Endpoint) MC Hazard ☐

Table 23

HHE Module: Sediment – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with human endpoints present in the sediment, select the box at the bottom of the table.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
No sediment samples were collected from this MRS under the MMRP RI.			
CHF Scale	**CHF Value**	**Sum The Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Sediment (Human Endpoint) MC Hazard ☐

Table 24

HHE Module: Surface Water – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No surface water samples were collected from this MRS under the MMRP RI.			

CHF Scale	CHF Value	Sum the Ratios
CHF > 100	H (High)	$CHF = \Sigma \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$
100 > CHF > 2	M (Medium)	
2 > CHF	L (Low)	

CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).	

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Surface Water (Ecological Endpoint) MC Hazard ☐

Table 25

HHE Module: Sediment – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the sediment, select the box at the bottom of the table.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
No sediment samples were collected from this MRS under the MMRP RI.			
CHF Scale	**CHF Value**	**Sum the Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Sediment (Ecological Endpoint) MC Hazard ☐

Table 26

HHE Module: Surface Soil Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface soil and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface soil contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the surface soil, select the box at the bottom of the table. .

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratio
No soil samples were collected from this MRS under the MMRP RI.			

CHF Scale	CHF Value	Sum the Ratios	
CHF > 100	H (High)	CHF = Σ [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	M (Medium)		
2 > CHF	L (Low)		

CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).	

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface soil is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface soil has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface soil to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface soil to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface soil to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface soil to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Surface Soil MC Hazard ☑

Table 27

HHE Module: Supplemental Contaminant Hazard Factor Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Only use this table if there are more than five contaminants in any given medium present at the MRS. This is a supplemental table designed to hold information about contaminants that do not fit in the previous tables. Indicate the **media** in which these contaminants are present. Then record all **contaminants**, their **maximum concentrations** and their **comparison values** (from Appendix B of the Primer) in the table below. Calculate and record the **ratio** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** for each medium on the appropriate media-specific tables.

Note: Do not add ratios from different media.

Media	Contaminant	Maximum Concentration	Comparison Value	Ratio

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Table 28

Determining the HHE Module Rating

DIRECTIONS:

1. Record the letter values (H, M, L) for the **Contaminant Hazard**, **Migration Pathway**, and **Receptor Factors** for the media (from Tables 21–26) in the corresponding boxes below.
2. Record the media's three-letter combinations in the **Three-Letter Combination** boxes below (three-letter combinations are arranged from Hs to Ms to Ls).
3. Using the **HHE Ratings** provided below, determine each media's rating (A–G) and record the letter in the corresponding **Media Rating** box below.

Media (Source)	**Contaminant Hazard Factor Value**	**Migratory Pathway Factor Value**	**Receptor Factor Value**	Three-Letter Combination (Hs-Ms-Ls)	Media Rating (A-G)
Groundwater (Table 21)	-	-	-	-	-
Surface Water/Human Endpoint (Table 22)	-	-	-	-	-
Sediment/Human Endpoint (Table 23)	-	-	-	-	-
Surface Water/Ecological Endpoint (Table 24)	-	-	-	-	-
Sediment/Ecological Endpoint (Table 25)	-	-	-	-	-
Surface Soil (Table 26)	-	-	-	-	-

DIRECTIONS (cont.):

4. Select the single highest Media Rating (A is highest; G is lowest) and enter the letter in the **HHE Module Rating** box.

Note:

An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more media, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

HHE MODULE RATING	-

HHE Ratings (for reference only)

Combination	**Rating**
HHH	A
HHM	B
HHL	C
HMM	C
HML	D
MMM	D
HLL	E
MML	E
MLL	F
LLL	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected MC Hazard

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Table 29
MRS Priority

DIRECTIONS: In the chart below, circle the letter **rating** for each module recorded in Table 10 (EHE), Table 20 (CHE), and Table 28 (HHE). Circle the corresponding numerical **priority** for each module. If information to determine the module rating is not available, choose the appropriate alternative module rating. The MRS Priority is the single highest priority; record this relative priority in the **MRS Priority or Alternative MRS Rating** at the bottom of the table.

Note: An MRS assigned Priority 1 has the highest relative priority; an MRS assigned Priority 8 has the lowest relative priority. Only an MRS with CWM known or suspected to be present can be assigned Priority 1; an MRS that has CWM known or suspected to be present cannot be assigned Priority 8.

EHE Rating	Priority	CHE Rating	Priority	HHE Rating	Priority
		A	**1**		
A	**2**	**B**	**2**	**A**	**2**
B	3	**C**	**3**	**B**	**3**
C	**4**	**D**	**4**	**C**	**4**
D	**5**	**E**	**5**	**D**	**5**
E	**6**	**F**	**6**	**E**	**6**
F	**7**	**G**	**7**	**F**	**7**
G	**8**			**G**	**8**
Evaluation Pending		Evaluation Pending		Evaluation Pending	
No Longer Required		No Longer Required		No Longer Required	
No Known or Suspected Explosive Hazard		**No Known or Suspected CWM Hazard**		**No Known or Suspected MC Hazard**	
MRS PRIORITY or ALTERNATIVE MRS RATING				**2**	

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FUZE AREA MRS

Table A
MRS Background Information

DIRECTIONS: Record the background information below for the Munitions Response Site (MRS) to be evaluated. Much of this information is available from Service and DoD databases. If the MRS is located on a FUDS property, the suitable FUDS property information should be substituted. In the **MRS Summary**, briefly describe the UXO, DMM, or MC that are known or suspected to be present, the exposure setting (the MRS's physical environment), any other incidental nonmunitions-related contaminants (e.g., benzene, trichloroethylene) found at the MRS, and any potentially exposed human and ecological receptors. If possible, include a map of the MRS.

Munitions Response Site Name/AEDB-R #: Fuze Area (PICA-003-R-02)

Component: Army

Installation/Property Name: Picatinny Arsenal, NJ

Location (City, County, State): Morris County, New Jersey

Site Name/Project Name (Project No.): Fuze Area / Picatinny Arsenal RI (038160030000)

Date Information Entered/Updated: November 2013

Preparer's Name/Organization/Phone: Layne Young, ARCADIS-US, Inc (410.332.4806)

Point of Contact (Name/Phone): Nancy Flaherty (410.779.2796)

Project Phase (check only one):

❑ PA	❑ SI	✠ RI	❑ FS	❑ RD
❑ RA-C	❑ RIP	❑ RA-O	❑ RC	❑ LTM

Media Evaluated (check all that apply):

❑ Groundwater	❑ Sediment (human receptor)
❑ Surface soil	❑ Surface Water (ecological receptor)
❑ Sediment (ecological receptor)	❑ Surface Water (human receptor)

MRS Summary:

MRS Description: Describe the munitions-related activities that occurred at the installation, the dates of operation, and the Unexploded Ordnance (UXO), Discarded Military Munitions (DMM), or Munitions Constituents (MC) known or suspected to be present. When possible, identify munitions, CWM, and MC by type.

The Fuze Area MRS was identified during the remedial investigation of the 1926 Explosion Radius MRS (PICA-003-R-01). During the investigation, five fuzes associated with the 1926 explosion were found in a 1.63 acre area and identified as MEC. Based on field observations, it does not appear that the fuzes were released during the explosion. If the fuzes were related to the 1926 explosion it would be expected that they would not be concentrated so heavily in such a limited area but would be more dispersed, as were other MEC associated with the explosion. In addition, based on the condition of the fuzes, it does not appear that they were involved in such a massive explosion. While the release mechanism for the fuzes is unknown, a building foundation is located adjacent to where the fuzes were found. It is possible that the fuzes were stored in this building and the building was damaged during the explosion. If so, the building may have been razed and the fuzes dispersed. Since the fuzes found appear to have a different release mechanism, this area was separated from the 1926 Explosion Radius MRS and a new MRS was created. The fuzes found include three BD MK2 Fuzes and two MK1 PD fuzes with boosters.

MC Summary

The Fuze Area was identified during the RI at the 1926 Explosion Radius MRS. No MC sampling was conducted in the 1926 Explosion Radius MRS because of the type and/or condition of MEC found at the MRS. Therefore, MC exposure pathways are incomplete.

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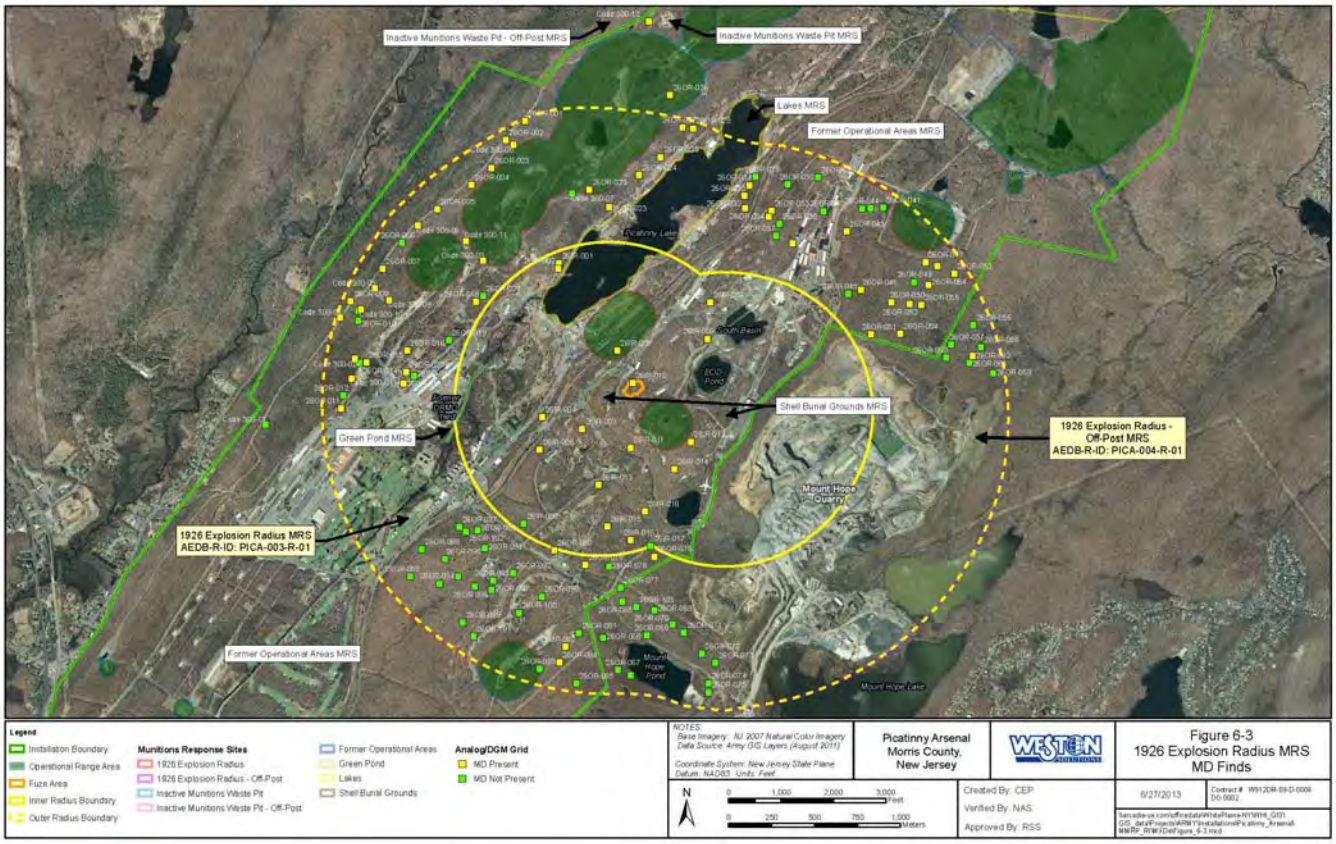
Description of Receptors (Human and Ecological):

This site covers a small portion of undeveloped property with in the 1926 Explosion Radius MRS. Human receptors include approximately 3,900 people including workers and the approximately 750 military personnel and immediate family members who reside at the on-post housing.

No federally threatened or endangered plant species have been documented at PTA. Seven state listed endangered plants are found at PTA; four occur in Lake Denmark (which is a separate MRS), and three are associated with wetlands on the installation. The state listed stiff clubmoss (*Lycopodium annotinum*) was recently documented and found in only a few colonies at PTA. One federally listed threatened animal, the bog turtle (*Clemmys muhlenburgii*), is known to occur at PTA. The last documented sighting of a bog turtle was in the shrub-swamp wetlands associated with Green Pond in 1987 (USAEC, 2001; New Jersey Department of Environmental Protection (NJDEP), 2011).

State listed endangered wildlife species at PTA include the bog turtle, timber rattlesnake (*Crotalus horridus*), red-shouldered hawk (*Buteo lineatus*), and bobcat (*Felis rufus*). Twelve state listed threatened species occur at PTA; only four are permanent residents, while the other eight are species of migratory birds.



Fuze Area MRS

Table 1

EHE Module: Munitions Type Data Element Table

DIRECTIONS: Below are 11 classifications of munitions and their descriptions. Circle the scores that correspond with **all** the munitions types known or suspected to be present at the MRS.

Note: The terms *practice munitions, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Sensitive	◆ UXO that are considered most likely to function upon any interaction with exposed persons (e.g., submunitions, 40mm high-explosive [HE] grenades, white phosphorus [WP] munitions, high-explosive antitank [HEAT] munitions, and practice munitions with sensitive fuzes, but excluding all other practice munitions). ◆ Hand grenades containing energetic filler. ◆ Bulk primary explosives, or mixtures of these with environmental media, such that the mixture poses an explosive hazard.	**30**
High explosive (used or damaged)	◆ UXO containing a high-explosive filler (e.g., RDX, Composition B), that are not considered "sensitive." ◆ DMM containing a high-explosive filler that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	25
Pyrotechnic (used or damaged)	◆ UXO containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades). ◆ DMM containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades) that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	20
High explosive (unused)	◆ DMM containing a high-explosive filler that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	15
Propellant	◆ UXO containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor) that are: ▪ Damaged by burning or detonation ▪ Deteriorated to the point of instability.	15
Bulk secondary high explosives, pyrotechnics, or propellant	◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM that are bulk secondary high explosives, pyrotechnic compositions, or propellant (not contained in a munitions), or mixtures of these with environmental media such that the mixture poses an explosive hazard.	10
Pyrotechnic (not used or damaged)	◆ DMM containing a pyrotechnic filler (i.e., red phosphorus), other than white phosphorus filler, that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	10
Practice	◆ UXO that are practice munitions that are not associated with a sensitive fuze. ◆ DMM that are practice munitions that are not associated with a sensitive fuze and that have not: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	5
Riot control	◆ UXO or DMM containing a riot control agent filler (e.g., tear gas).	3
Small arms	◆ Used munitions or DMM that are categorized as small arms ammunition. (Physical evidence or historical evidence that no other types of munitions [e.g., grenades, subcaliber training rockets, demolition charges] were used or are present on the MRS is required for selection of this category.)	2
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	0
MUNITIONS TYPE	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**30**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Munitions Type*** classifications in the space provided.

During the MMRP RI, three BD MK2 Fuzes and two MK1 PD fuzes with boosters were found (Section 6.2.2 MMRP RI Report). Due to the presence of the fuzes sensitive was selected.

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Table 2

EHE Module: Source of Hazard Data Element Table

DIRECTIONS: Below are 11 classifications describing sources of explosive hazards. Circle the scores that correspond with **all** the sources of explosive hazards known or suspected to be present at the MRS.

Note: The terms *former range, practice munitions, small arms range, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Former range	◆ The MRS is a former military range where munitions (including practice munitions with sensitive fuzes) have been used. Such areas include impact or target areas and associated buffer and safety zones.	10
Former munitions treatment (i.e., OB/OD) unit	◆ The MRS is a location where UXO or DMM (e.g., munitions, bulk explosives, bulk pyrotechnic, or bulk propellants) were burned or detonated for the purpose of treatment prior to disposal.	8
Former practice munitions range	◆ The MRS is a former military range on which only practice munitions without sensitive fuzes were used.	6
Former maneuver area	◆ The MRS is a former maneuver area where no munitions other than flares, simulators, smokes, and blanks were used. There must be evidence that no other munitions were used at the location to place an MRS into this category.	5
Former burial pit or other disposal area	◆ The MRS is a location where DMM were buried or disposed of (e.g., disposed of into a water body) without prior thermal treatment.	**5**
Former industrial operating facilities	◆ The MRS is a location that is a former munitions maintenance, manufacturing, or demilitarization facility.	4
Former firing points	◆ The MRS is a firing point, where the firing point is delineated as an MRS separate from the rest of a former military range.	4
Former missile or air defense artillery emplacements	◆ The MRS is a former missile defense or air defense artillery (ADA) emplacement not associated with a military range.	2
Former storage or transfer points	◆ The MRS is a location where munitions were stored or handled for transfer between different modes of transportation (e.g., rail to truck, truck to weapon system).	**2**
Former small arms range	◆ The MRS is a former military range where only small arms ammunition was used. (There must be evidence that no other types of munitions [e.g., grenades] were used or are present to place an MRS into this category.)	1
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that no UXO or DMM are present, or there is historical evidence indicating that no UXO or DMM are present.	0
SOURCE OF HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Source of Hazard*** classifications in the space provided.

It is assumed the fuzes were stored in a building damaged during the 1926 explosion. If so, the building may have been razed and the fuzes dispersed. Recent evidence suggests that the area may have been used as a burial pit for items from the 1926 explosion (Section 6.2.2 MMRP RI Report).

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Table 3

EHE Module: Location of Munitions Data Element Table

DIRECTIONS: Below are eight classifications of munitions locations and their descriptions. Circle the scores that correspond with **all** the locations where munitions are known or suspected to be present at the MRS.

Note: The terms *confirmed, surface, subsurface, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Confirmed surface	◆ Physical evidence indicates that there are UXO or DMM on the surface of the MRS. ◆ Historical evidence (i.e., a confirmed report such as an explosive ordnance disposal [EOD], police, or fire department report that an incident or accident that involved UXO or DMM occurred) indicates there are UXO or DMM on the surface of the MRS.	**25**
Confirmed subsurface, active	◆ Physical evidence indicates the presence of UXO or DMM in the subsurface of the MRS, and the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose UXO or DMM. ◆ Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS and the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose UXO or DMM.	20
Confirmed subsurface, stable	◆ Physical evidence indicates the presence of UXO or DMM in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed. ◆ Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed.	15
Suspected (physical evidence)	◆ There is physical evidence (e.g., munitions debris such as fragments, penetrators, projectiles, shell casings, links, fins), other than the documented presence of UXO or DMM, indicating that UXO or DMM may be present at the MRS.	10
Suspected (historical evidence)	◆ There is historical evidence indicating that UXO or DMM may be present at the MRS.	5
Subsurface, physical constraint	◆ There is physical or historical evidence indicating that UXO or DMM may be present in the subsurface, but there is a physical constraint (e.g., pavement, water depth over 120 feet) preventing direct access to the UXO or DMM.	2
Small arms (regardless of location)	◆ The presence of small arms ammunition is confirmed or suspected, regardless of other factors such as geological stability. (There must be evidence that no other types of munitions [e.g., grenades] were used or are present at the MRS to place an MRS into this category.)	1
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	0
LOCATION OF MUNITIONS	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 25).	**25**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Location of Munitions*** classifications in the space provided.

The fuzes found during the RI were on the ground surface (Section 6.2.2 MMRP RI Report).

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Table 4

EHE Module: Ease of Access Data Element Table

DIRECTIONS: Below are four classifications of barrier types that can surround an MRS and their descriptions. The barrier type is directly related to the ease of public access to the MRS. Circle the score that corresponds with the ease of access to the MRS.

Note: The term *barrier* is defined in Appendix C of the Primer.

Classification	Description	Score
No barrier	◆ There is no barrier preventing access to any part of the MRS (i.e., all parts of the MRS are accessible).	**10**
Barrier to MRS access is incomplete	◆ There is a barrier preventing access to parts of the MRS, but not the entire MRS.	**8**
Barrier to MRS access is complete but not monitored	◆ There is a barrier preventing access to all parts of the MRS, but there is no surveillance (e.g., by a guard) to ensure that the barrier is effectively preventing access to all parts of the MRS.	5
Barrier to MRS access is complete and monitored	◆ There is a barrier preventing access to all parts of the MRS, and there is active, continual surveillance (e.g., by a guard, video monitoring) to ensure that the barrier is effectively preventing access to all parts of the MRS.	0
EASE OF ACCESS	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**10**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ease of Access*** classification in the space provided.

Access to the fuze area is not restricted once on the installation (Section 6.2.3 MMRP RI Report).

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Table 5

EHE Module: Status of Property Data Element Table

DIRECTIONS: Below are three classifications of the status of a property within the Department of Defense (DoD) and their descriptions. Circle the score that corresponds with the status of property at the MRS.

Classification	Description	Score
Non-DoD control	◆ The MRS is at a location that is no longer owned by, leased to, or otherwise possessed or used by DoD. Examples are privately owned land or water bodies; land or water bodies owned or controlled by state, tribal, or local governments; and land or water bodies managed by other federal agencies. ◆ The MRS is at a location that is owned by DoD, but that DoD has leased to another entity and for which DoD does not control access 24 hours per day.	5
Scheduled for transfer from DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD, and DoD plans to transfer that land or water body to the control of another entity (e.g., a state, tribal, or local government; a private party; another federal agency) within 3 years from the date the Protocol is applied.	3
DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD. With respect to property that is leased or otherwise possessed, DoD must control access to the MRS 24 hours per day, every day of the calendar year.	**0**
STATUS OF PROPERTY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Status of Property*** classification in the space provided.

This MRS is located on land owned by DoD; therefore, DoD control was selected (Section10.1 MMRP RI Report).

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Table 6

EHE Module: Population Density Data Element Table

DIRECTIONS: Below are three classifications for population density and their descriptions. Determine the population density per square mile that most closely corresponds with the population of the MRS, including the area within a two-mile radius of the MRS's perimeter. Circle the most appropriate score.

Note: Use the U.S. Census Bureau tract data available to capture the **highest** population density within a two-mile radius of the perimeter of the MRS.

Classification	Description	Score
> 500 persons per square mile	◆ There are more than 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	5
100–500 persons per square mile	◆ There are 100 to 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	**3**
< 100 persons per square mile	◆ There are fewer than 100 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	1
POPULATION DENSITY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**3**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Density*** classification in the space provided.

According to the census bureau website, in the 2000 census there were 148 people per square mile in the census tract associated with that portion of Rockaway Township that falls within a 2-mile radius of this MRS' perimeter and 310 people per square mile in the census tract associated with that portion of Jefferson Township that falls within a 2-mile radius of this MRS' perimeter (www.census.gov).

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Table 7

EHE Module: Population Near Hazard Data Element Table

DIRECTIONS: Below are six classifications describing the number of inhabited structures near the MRS. The number of inhabited buildings relates to the potential population near the MRS. Determine the number of inhabited structures within two miles of the MRS boundary and circle the score that corresponds with the number of inhabited structures.

Note: The term *inhabited structures* is defined in Appendix C of the Primer.

Classification	Description	Score
26 or more inhabited structures	◆ There are 26 or more inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	**5**
16 to 25 inhabited structures	◆ There are 16 to 25 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	4
11 to 15 inhabited structures	◆ There are 11 to 15 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	3
6 to 10 inhabited structures	◆ There are 6 to 10 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	2
1 to 5 inhabited structures	◆ There are 1 to 5 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	1
0 inhabited structures	◆ There are no inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	0
POPULATION NEAR HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Near Hazard*** classification in the space provided.

This MRS is located adjacent to hundreds of buildings used for various purposes, including manufacturing, storage, testing, R&D, administration, and housing (Section10.1 MMRP RI Report).

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Table 8

EHE Module: Types of Activities/Structures Data Element Table

DIRECTIONS: Below are five classifications of activities and/or inhabited structures and their descriptions. Review the types of activities that occur and/or structures that are present within two miles of the MRS and circle the scores that correspond with **all** the activities/structure classifications at the MRS.

Note: The term *inhabited structure* is defined in Appendix C of the Primer.

Classification	Description	Score
Residential, educational, commercial, or subsistence	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with any of the following purposes: residential, educational, child care, critical assets (e.g., hospitals, fire and rescue, police stations, dams), hotels, commercial, shopping centers, playgrounds, community gathering areas, religious sites, or sites used for subsistence hunting, fishing, and gathering.	**5**
Parks and recreational areas	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with parks, nature preserves, or other recreational uses.	**4**
Agricultural, forestry	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with agriculture or forestry.	3
Industrial or warehousing	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with industrial activities or warehousing.	**2**
No known or recurring activities	◆ There are no known or recurring activities occurring up to two miles from the MRS's boundary or within the MRS's boundary.	1
TYPES OF ACTIVITIES/STRUCTURES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Types of Activities/Structures*** classifications in the space provided.

This MRS is located adjacent to hundreds of buildings used for various purposes, including manufacturing, storage, testing, R&D, administration, and housing (Section10.1 MMRP RI Report).

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Table 9

EHE Module: Ecological and/or Cultural Resources Data Element Table

DIRECTIONS: Below are four classifications of ecological and/or cultural resources and their descriptions. Review the types of resources present and circle the score that corresponds with the ecological and/or cultural resources present on the MRS.

Note: The terms *ecological resources* and *cultural resources* are defined in Appendix C of the Primer.

Classification	Description	Score
Ecological and cultural resources present	◆ There are both ecological and cultural resources present on the MRS.	5
Ecological resources present	◆ There are ecological resources present on the MRS.	3
Cultural resources present	◆ There are cultural resources present on the MRS.	3
No ecological or cultural resources present	◆ There are no ecological resources or cultural resources present on the MRS.	**0**
ECOLOGICAL AND/OR CULTURAL RESOURCES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ecological and/or Cultural Resources*** classification in the space provided.

There are no known or suspected ecological or cultural resources within the fuze area boundaries (Section10.1 MMRP RI Report).

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Table 10
Determining the EHE Module Rating

DIRECTIONS:

1. From Tables 1–9, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **EHE Module Total** box below.
4. Circle the appropriate range for the **EHE Module Total** below.
5. Circle the **EHE Module Rating** that corresponds to the range selected and record this value in the **EHE Module Rating** box found at the bottom of the table.

Note:
An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
Explosive Hazard Factor Data Elements			
Munitions Type	Table 1	**30**	**35**
Source of Hazard	Table 2	**5**	
Accessibility Factor Data Elements			
Location of Munitions	Table 3	**25**	**35**
Ease of Access	Table 4	**10**	
Status of Property	Table 5	**0**	
Receptor Factor Data Elements			
Population Density	Table 6	**0**	**13**
Population Near Hazard	Table 7	**3**	
Types of Activities/Structures	Table 8	**5**	
Ecological and/or Cultural Resources	Table 9	**5**	
EHE MODULE TOTAL			**83**

EHE Module Total	EHE Module Rating
92 to 100	A
82 to 91	**B**
71 to 81	C
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected Explosive Hazard
EHE MODULE RATING	**B**

Table 11

CHE Module: CWM Configuration Data Element Table

DIRECTIONS: Below are seven classifications of CWM configuration and their descriptions. Circle the scores that correspond with **all** the CWM configurations known or suspected to be present at the MRS.

Note: The terms *CWM/UXO, CWM/DMM, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
CWM, that are either UXO, or explosively configured damaged DMM	The CWM known or suspected of being present at the MRS are: ◆ CWM that are UXO (i.e., CWM/UXO) ◆ Explosively configured CWM that are DMM (i.e., CWM/DMM) that have been damaged.	30
CWM mixed with UXO	◆ The CWM known or suspected of being present at the MRS are undamaged CWM/DMM or CWM not configured as a munition that are commingled with conventional munitions that are UXO.	25
CWM, explosive configuration that are undamaged DMM	◆ The CWM known or suspected of being present at the MRS are explosively configured CWM/DMM that have not been damaged.	20
CWM/DMM, not explosively configured or CWM, bulk container	The CWM known or suspected of being present at the MRS are: ◆ Nonexplosively configured CWM/DMM either damaged or undamaged ◆ Bulk CWM (e.g., ton container).	15
CAIS K941 and CAIS K942	◆ The CWM/DMM known or suspected of being present at the MRS are CAIS K941-toxic gas set M-1 or CAIS K942-toxic gas set M-2/E11.	12
CAIS (chemical agent identification sets)	◆ CAIS, other than CAIS K941 and K942, are known or suspected of being present at the MRS.	10
Evidence of no CWM	◆ Following investigation, the physical evidence indicates that CWM are not present at the MRS, or the historical evidence indicates that CWM are not present at the MRS.	**0**
CWM CONFIGURATION	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the *CWM Configuration* classifications in the space provided.

No known or suspected CWM hazard has been reported at the Fuze Area. In addition, there is no evidence of CWM use throughout PTA's history (MMRP SI Report Section 2).

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Tables 12-19

No known or suspected CWM hazard is expected at this site. Therefore, Tables 12 through 19 have been intentionally omitted according to Active Army Guidance.

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Table 20
Determining the CHE Module Rating

DIRECTIONS:

1. From Tables 11–19, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **CHE Module Total** box below.
4. Circle the appropriate range for the **CHE Module Total** below.
5. Circle the **CHE Module Rating** that corresponds to the range selected and record this value in the **CHE Module Rating** box found at the bottom of the table.

Note:

An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
CWM Hazard Factor Data Elements			
CWM Configuration	Table 11	0	0
Sources of CWM	Table 12	-	
Accessibility Factor Data Elements			
Location of CWM	Table 13	-	-
Ease of Access	Table 14	-	
Status of Property	Table 15	-	
Receptor Factor Data Elements			
Population Density	Table 16	-	-
Population Near Hazard	Table 17	-	
Types of Activities/Structures	Table 18	-	
Ecological and/or Cultural Resources	Table 19	-	
CHE MODULE TOTAL			0

CHE Module Total	CHE Module Rating
92 to 100	A
82 to 91	B
71 to 81	C
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected CWM Hazard
CHE MODULE RATING	**No Known or Suspected CWM Hazard**

Table 21

HHE Module: Groundwater Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's groundwater and their comparison values (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant ratios together, including any additional groundwater contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the groundwater, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
Groundwater samples were not collected from this MRS under the MMRP RI. In addition, groundwater throughout the installation is being addressed under the IRP and will not be included in the Active Army MMRP Program (Installation Action Plan, 2011).			

CHF Scale	CHF Value	Sum The Ratios
CHF > 100	H (High)	$CHF = \Sigma \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$
100 > CHF > 2	M (Medium)	
2 > CHF	L (Low)	

CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).	

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the groundwater is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the groundwater to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater receptors at the MRS.

Classification	Description	Value
Identified	There is a threatened water supply well downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer).	H
Potential	There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer).	M
Limited	There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only).	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Groundwater MC Hazard	☑

Table 22

HHE Module: Surface Water – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value.** Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF,** use the **CHF Scale** to determine and record the **CHF Value.** If there is no known or suspected MC hazard with human endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No surface water data were collected under the MMRP RI for this MRS.			
CHF Scale	**CHF Value**	**Sum The Ratios**	
CHF > 100	**H (High)**	$CHF = \Sigma \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Surface Water (Human Endpoint) MC Hazard ☑

Table 23

HHE Module: Sediment – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with human endpoints present in the sediment, select the box at the bottom of the table.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
No sediment data were collected under the MMRP RI for this MRS.			
CHF Scale	**CHF Value**	**Sum The Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Sediment (Human Endpoint) MC Hazard ☑

Table 24

HHE Module: Surface Water – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No surface water data were collected under the MMRP RI for this MRS.			

CHF Scale	CHF Value	Sum the Ratios
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]
100 > CHF > 2	**M (Medium)**	
2 > CHF	**L (Low)**	

CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).	

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Surface Water (Ecological Endpoint) MC Hazard ☑

Table 25

HHE Module: Sediment – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the sediment, select the box at the bottom of the table.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
No sediment data were collected under the MMRP RI for this MRS.			
CHF Scale	**CHF Value**	**Sum the Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Sediment (Ecological Endpoint) MC Hazard ☑

Table 26

HHE Module: Surface Soil Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface soil and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface soil contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the surface soil, select the box at the bottom of the table. .

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratio
No MC soil sampling was conducted under the MMRP RI for this MRS.			

CHF Scale	CHF Value	Sum the Ratios	
CHF > 100	**H (High)**	**CHF = Σ**	[Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		

CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).	**-**

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface soil is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface soil has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface soil to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	-

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface soil to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface soil to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface soil to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**-**
	No Known or Suspected Surface Soil MC Hazard	☑

Table 27

HHE Module: Supplemental Contaminant Hazard Factor Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Only use this table if there are more than five contaminants in any given medium present at the MRS. This is a supplemental table designed to hold information about contaminants that do not fit in the previous tables. Indicate the **media** in which these contaminants are present. Then record all **contaminants**, their **maximum concentrations** and their **comparison values** (from Appendix B of the Primer) in the table below. Calculate and record the **ratio** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** for each medium on the appropriate media-specific tables.

Note: Do not add ratios from different media.

Media	Contaminant	Maximum Concentration	Comparison Value	Ratio

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Table 28

Determining the HHE Module Rating

DIRECTIONS:

1. Record the letter values (H, M, L) for the **Contaminant Hazard**, **Migration Pathway**, and **Receptor Factors** for the media (from Tables 21–26) in the corresponding boxes below.
2. Record the media's three-letter combinations in the **Three-Letter Combination** boxes below (three-letter combinations are arranged from Hs to Ms to Ls).
3. Using the **HHE Ratings** provided below, determine each media's rating (A–G) and record the letter in the corresponding **Media Rating** box below.

Media (Source)	**Contaminant Hazard Factor Value**	**Migratory Pathway Factor Value**	**Receptor Factor Value**	Three-Letter Combination (Hs-Ms-Ls)	Media Rating (A-G)
Groundwater (Table 21)	-	-	-	-	-
Surface Water/Human Endpoint (Table 22)	-	-	-	-	-
Sediment/Human Endpoint (Table 23)	-	-	-	-	-
Surface Water/Ecological Endpoint (Table 24)	-	-	-	-	-
Sediment/Ecological Endpoint (Table 25)	-	-	-	-	-
Surface Soil (Table 26)	-	-	-	-	-

DIRECTIONS (cont.):

4. Select the single highest Media Rating (A is highest; G is lowest) and enter the letter in the **HHE Module Rating** box.

Note:

An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more media, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

HHE MODULE RATING	-

HHE Ratings (for reference only)

Combination	**Rating**
HHH	A
HHM	B
HHL	C
HMM	C
HML	D
MMM	D
HLL	E
MML	E
MLL	F
LLL	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected MC Hazard

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Table 29
MRS Priority

DIRECTIONS: In the chart below, circle the letter **rating** for each module recorded in Table 10 (EHE), Table 20 (CHE), and Table 28 (HHE). Circle the corresponding numerical **priority** for each module. If information to determine the module rating is not available, choose the appropriate alternative module rating. The MRS Priority is the single highest priority; record this relative priority in the **MRS Priority or Alternative MRS Rating** at the bottom of the table.

Note: An MRS assigned Priority 1 has the highest relative priority; an MRS assigned Priority 8 has the lowest relative priority. Only an MRS with CWM known or suspected to be present can be assigned Priority 1; an MRS that has CWM known or suspected to be present cannot be assigned Priority 8.

EHE Rating	Priority	CHE Rating	Priority	HHE Rating	Priority
		A	**1**		
A	**2**	**B**	**2**	**A**	**2**
B	**3**	**C**	**3**	B	3
C	**4**	**D**	**4**	**C**	**4**
D	**5**	**E**	**5**	**D**	**5**
E	**6**	**F**	**6**	**E**	**6**
F	**7**	**G**	**7**	**F**	**7**
G	**8**			**G**	**8**
Evaluation Pending		Evaluation Pending		Evaluation Pending	
No Longer Required		No Longer Required		No Longer Required	
No Known or Suspected Explosive Hazard		**No Known or Suspected CWM Hazard**		**No Known or Suspected MC Hazard**	
MRS PRIORITY or ALTERNATIVE MRS RATING				**3**	

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SHELL BURIAL GROUNDS MRS

Table A
MRS Background Information

DIRECTIONS: Record the background information below for the Munitions Response Site (MRS) to be evaluated. Much of this information is available from Service and DoD databases. If the MRS is located on a FUDS property, the suitable FUDS property information should be substituted. In the **MRS Summary**, briefly describe the UXO, DMM, or MC that are known or suspected to be present, the exposure setting (the MRS's physical environment), any other incidental nonmunitions-related contaminants (e.g., benzene, trichloroethylene) found at the MRS, and any potentially exposed human and ecological receptors. If possible, include a map of the MRS.

Munitions Response Site Name/AEDB-R #: Shell Burial Grounds (PICA-010-R-01)

Component: Army

Installation/Property Name: Picatinny Arsenal, NJ

Location (City, County, State): Morris County, New Jersey

Site Name/Project Name (Project No.): Shell Burial Grounds / Picatinny Arsenal RI (038160030000)

Date Information Entered/Updated: November 2013

Preparer's Name/Organization/Phone: Layne Young, ARCADIS-US, Inc. (410.332.4806)

Point of Contact (Name/Phone): Nancy Flaherty (410.779.2796)

Project Phase (check only one):

❑ PA	❑ SI	✠ RI	❑ FS	❑ RD
❑ RA-C	❑ RIP	❑ RA-O	❑ RC	❑ LTM

Media Evaluated (check all that apply):

❑ Groundwater	❑ Sediment (human receptor)
❑ Surface soil	❑ Surface Water (ecological receptor)
❑ Sediment (ecological receptor)	❑ Surface Water (human receptor)

MRS Summary:

MRS Description: Describe the munitions-related activities that occurred at the installation, the dates of operation, and the Unexploded Ordnance (UXO), Discarded Military Munitions (DMM), or Munitions Constituents (MC) known or suspected to be present.

This Munitions Response Site (MRS) includes three craters formed during an explosion of numerous storage magazines on the Lake Denmark Naval Ammunition Depot. The Lake Denmark Naval Ammunition Depot, which was located on what is currently the eastern portion of PTA, near Picatinny Lake, was used by the Navy from the late 1800s to the 1960s, mainly for storage of materials such as high explosives (HE), smokeless powder, black powder, and projectiles. Reportedly, the Navy property contained between 160 and 200 buildings; approximately 40 to 50 of these were used for explosives storage. On 10 July 1926, lightning struck the southwest end of the depot, setting off a series of explosions. According to a historical report, it was estimated that 2.5 million pounds of the following explosives detonated in the explosion: trinitrotoluene (TNT); 25-pound Navy Mark I bombs, loaded and plugged; Mark II, III, IV, and V bombs, each loaded with TNT; Bomb accessories (*e.g.*, fins, tails); Aerial bombs, TNT center section; 14-inch Class "B," loaded and fuzed; 14-inch armor-piercing (AP) rounds, loaded and fuzed; 8-inch shells, loaded and fuzed; 5-inch shells, loaded and fuzed. In addition, explosive D burned but did not detonate (*The History of Picatinny Arsenal*, March 31, 1931). Although not listed in the historical documents, 3-inch, 4-inch, and 6-inch common projectiles are also associated with the 1926 explosion. These munitions and explosives of concern (MEC) have been found during time-critical removal actions conducted for PTA within the explosion radius (Section 5.1.1.5 MMRP RI Report).

These three craters formed two burial grounds [one on the southeastern portion of the installation near Bldg. 3150 and another on the southern portion of the installation near Bldg. 3100] that were used for the disposal of approximately 25 tons of explosives from the explosion. This MRS encompasses approximately 5.7 acres.

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The burial ground near Bldg. 3150 covers approximately 1.5 acres and is located near the southeastern installation boundary while the other burial ground near Bldg. 3100 covers approximately 4.2 acres and is located in the southern half of the installation. Materials that were disposed of at these burial grounds include projectiles, mines, depth charges, fuzes, explosives, small arms ammunition, propellants, and, possibly, rocket fuels. It was also reported that the site potentially contains acids, pickling liquors, cyanide, and phenol. The Navy continued to use these areas for explosives disposal until 1945; however, no records of the types of material or amounts disposed of were kept. After the Navy discontinued the use of these areas, they were covered with 20 feet of fill (*Remedial Investigation Concept Plan for Picatinny Arsenal*, March 1991). Currently, both burial grounds are fenced and posted with warning signs.

MC Summary:

MC at this site is being addressed under the Installation Restoration Program (IRP). Known as IRP Site PICA-162, this site is currently in the Remedial Investigation/Feasibility Study phase.

Description of Pathways (Human and Ecological):
Exposure pathways for MEC are considered potentially complete in the subsurface, because it has historically been used for disposal of approximately 25 tons of explosives from the 1926 explosion. In addition, it was determined during the ER transect surveys that debris extends beyond the boundaries of the ICs (fenceline), which could provide access for receptors to contact munitions in the subsurface. A potentially complete pathway could exist for PTA personnel and contractors who may perform intrusive work during potential future IC installation/movement activities. Incomplete exposure pathways exist for PTA personnel, residents, and contractors for MEC in surface soil, given that buried debris containing possible MEC has been detected deeper than 5 feet bgs where environmental factors (e.g., frost) may bring subsurface MEC to the surface in the Shell Burial Grounds MRS. The exposure pathways are incomplete for biota that may contact MEC in the subsurface soil during burrowing based on the possible location of MEC source material at depth in subsurface soil. The pathway to ecological receptors is possibly present, but incomplete as no MEC source material was confirmed within 4 feet of ground surface where biota activity is most likely.

Description of Receptors (Human and Ecological):
This MRS consists of vacant forested land. The burial grounds are fenced and posted with warning signs and access is restricted by the Safety Office. There are no known site specific beneficial resources or ecological receptors. It is reported that the area is covered with 0-10 feet of clean fill. The maximum depth of the craters is reported to be between 25 to 35 feet.

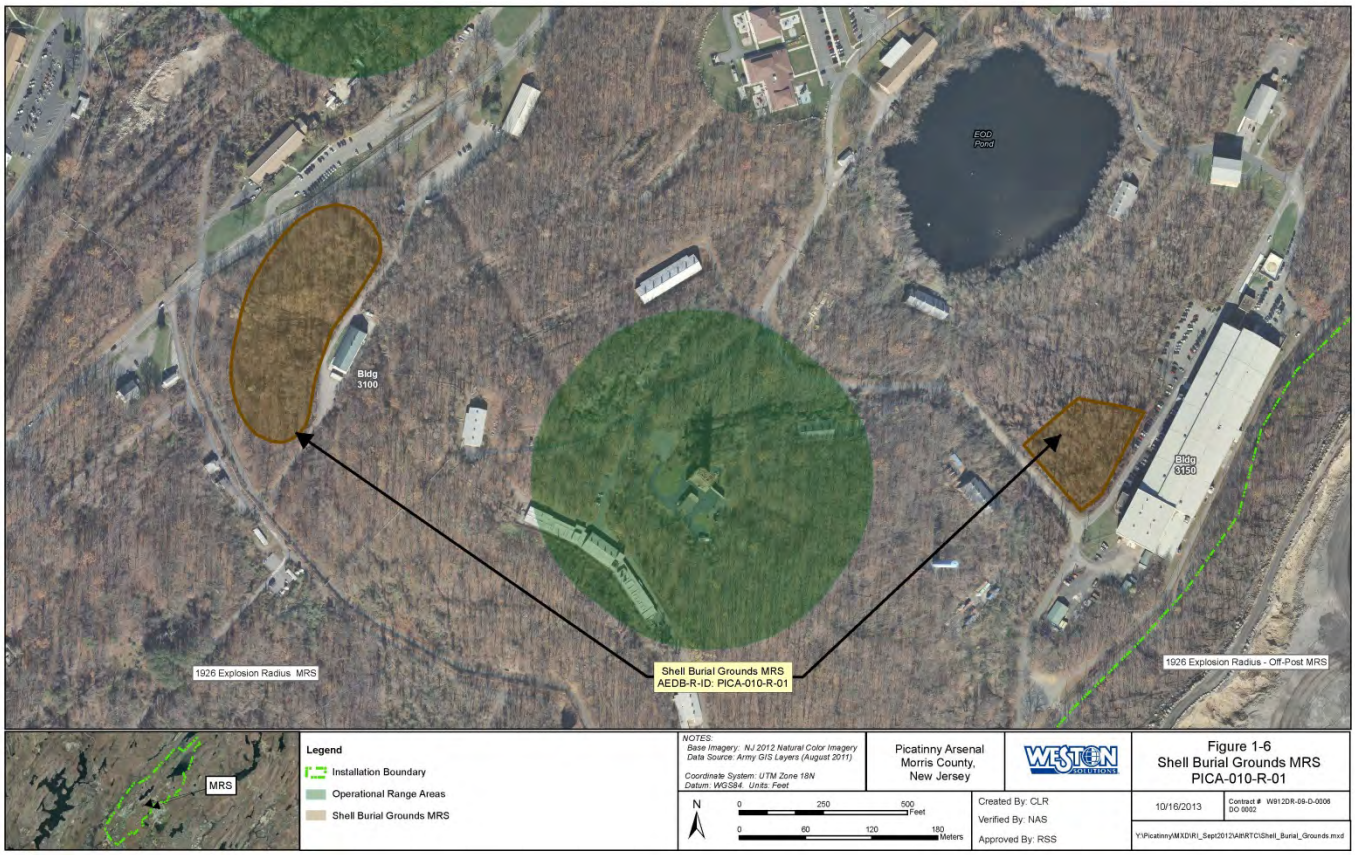

Table 1

EHE Module: Munitions Type Data Element Table

DIRECTIONS: Below are 11 classifications of munitions and their descriptions. Circle the scores that correspond with **all** the munitions types known or suspected to be present at the MRS.

Note: The terms *practice munitions, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Sensitive	◆ UXO that are considered most likely to function upon any interaction with exposed persons (e.g., submunitions, 40mm high-explosive [HE] grenades, white phosphorus [WP] munitions, high-explosive antitank [HEAT] munitions, and practice munitions with sensitive fuzes, but excluding all other practice munitions). ◆ Hand grenades containing energetic filler. ◆ Bulk primary explosives, or mixtures of these with environmental media, such that the mixture poses an explosive hazard.	**30**
High explosive (used or damaged)	◆ UXO containing a high-explosive filler (e.g., RDX, Composition B), that are not considered "sensitive." ◆ DMM containing a high-explosive filler that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	**25**
Pyrotechnic (used or damaged)	◆ UXO containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades). ◆ DMM containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades) that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	**20**
High explosive (unused)	◆ DMM containing a high-explosive filler that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	**15**
Propellant	◆ UXO containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor) that are: ▪ Damaged by burning or detonation ▪ Deteriorated to the point of instability.	**15**
Bulk secondary high explosives, pyrotechnics, or propellant	◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM that are bulk secondary high explosives, pyrotechnic compositions, or propellant (not contained in a munitions), or mixtures of these with environmental media such that the mixture poses an explosive hazard.	10
Pyrotechnic (not used or damaged)	◆ DMM containing a pyrotechnic filler (i.e., red phosphorus), other than white phosphorus filler, that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	**10**
Practice	◆ UXO that are practice munitions that are not associated with a sensitive fuze. ◆ DMM that are practice munitions that are not associated with a sensitive fuze and that have not: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	**5**
Riot control	◆ UXO or DMM containing a riot control agent filler (e.g., tear gas).	3
Small arms	◆ Used munitions or DMM that are categorized as small arms ammunition. (Physical evidence or historical evidence that no other types of munitions [e.g., grenades, subcaliber training rockets, demolition charges] were used or are present on the MRS is required for selection of this category.)	2
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	0
MUNITIONS TYPE	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**30**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Munitions Type*** classifications in the space provided.

This MRS includes three craters formed during an explosion of numerous storage magazines on the Lake Denmark Naval Ammunition Depot. The craters were used for the disposal of material from the explosion. Due to health and safety concerns, intrusive work was not conducted at this MRS during the MMRP RI. According to a historical report, it was estimated that 2.5 million pounds of explosives were detonated in the explosion, including: TNT, 25-lb. Navy Mark I bombs, loaded and plugged, Mark II, III, IV, and V bombs,

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Table 1

EHE Module: Munitions Type Data Element Table

DIRECTIONS: Below are 11 classifications of munitions and their descriptions. Circle the scores that correspond with **all** the munitions types known or suspected to be present at the MRS.

Note: The terms *practice munitions, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
	containing TNT, bomb accessories (e.g., fins, tails), aerial bombs with a TNT center section, 14-inch Class "B", (loaded and fuzed), 14-inch armor piercing (AP) rounds (loaded and fuzed), 8-inch shells (loaded and fuzed), and 5-inch shells (loaded and fuzed) (The History of Picatinny Arsenal, March 31, 1931). Sensitive was selected for this MRS because fuzes associated with the 1926 explosion have been found in the 19266 Explosion Radius MRA (Section 6.2 MMRP RI Report).	

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Table 2

EHE Module: Source of Hazard Data Element Table

DIRECTIONS: Below are 11 classifications describing sources of explosive hazards. Circle the scores that correspond with **all** the sources of explosive hazards known or suspected to be present at the MRS.

Note: The terms *former range, practice munitions, small arms range, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Former range	◆ The MRS is a former military range where munitions (including practice munitions with sensitive fuzes) have been used. Such areas include impact or target areas and associated buffer and safety zones.	10
Former munitions treatment (i.e., OB/OD) unit	◆ The MRS is a location where UXO or DMM (e.g., munitions, bulk explosives, bulk pyrotechnic, or bulk propellants) were burned or detonated for the purpose of treatment prior to disposal.	8
Former practice munitions range	◆ The MRS is a former military range on which only practice munitions without sensitive fuzes were used.	6
Former maneuver area	◆ The MRS is a former maneuver area where no munitions other than flares, simulators, smokes, and blanks were used. There must be evidence that no other munitions were used at the location to place an MRS into this category.	5
Former burial pit or other disposal area	◆ The MRS is a location where DMM were buried or disposed of (e.g., disposed of into a water body) without prior thermal treatment.	**5**
Former industrial operating facilities	◆ The MRS is a location that is a former munitions maintenance, manufacturing, or demilitarization facility.	4
Former firing points	◆ The MRS is a firing point, where the firing point is delineated as an MRS separate from the rest of a former military range.	4
Former missile or air defense artillery emplacements	◆ The MRS is a former missile defense or air defense artillery (ADA) emplacement not associated with a military range.	2
Former storage or transfer points	◆ The MRS is a location where munitions were stored or handled for transfer between different modes of transportation (e.g., rail to truck, truck to weapon system).	2
Former small arms range	◆ The MRS is a former military range where only small arms ammunition was used. (There must be evidence that no other types of munitions [e.g., grenades] were used or are present to place an MRS into this category.)	1
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that no UXO or DMM are present, or there is historical evidence indicating that no UXO or DMM are present.	0
SOURCE OF HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Source of Hazard*** classifications in the space provided.

This MRS was used for the disposal of approximately 25 tons of explosives from the 1926 explosion. The navy continued to use these areas for disposal of munitions until 1945. No records of the types of material or amounts disposed of by the Navy were kept (*The History of Picatinny Arsenal*, March 31, 1931; *Remedial Investigation Concept Plan for Picatinny Arsenal*, March 1991).

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Table 3

EHE Module: Location of Munitions Data Element Table

DIRECTIONS: Below are eight classifications of munitions locations and their descriptions. Circle the scores that correspond with **all** the locations where munitions are known or suspected to be present at the MRS.

Note: The terms *confirmed, surface, subsurface, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Confirmed surface	◆ Physical evidence indicates that there are UXO or DMM on the surface of the MRS. ◆ Historical evidence (i.e., a confirmed report such as an explosive ordnance disposal [EOD], police, or fire department report that an incident or accident that involved UXO or DMM occurred) indicates there are UXO or DMM on the surface of the MRS.	25
Confirmed subsurface, active	◆ Physical evidence indicates the presence of UXO or DMM in the subsurface of the MRS, and the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose UXO or DMM. ◆ Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS and the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose UXO or DMM.	20
Confirmed subsurface, stable	◆ Physical evidence indicates the presence of UXO or DMM in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed. ◆ Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed.	**15**
Suspected (physical evidence)	◆ There is physical evidence (e.g., munitions debris such as fragments, penetrators, projectiles, shell casings, links, fins), other than the documented presence of UXO or DMM, indicating that UXO or DMM may be present at the MRS.	10
Suspected (historical evidence)	◆ There is historical evidence indicating that UXO or DMM may be present at the MRS.	5
Subsurface, physical constraint	◆ There is physical or historical evidence indicating that UXO or DMM may be present in the subsurface, but there is a physical constraint (e.g., pavement, water depth over 120 feet) preventing direct access to the UXO or DMM.	2
Small arms (regardless of location)	◆ The presence of small arms ammunition is confirmed or suspected, regardless of other factors such as geological stability. (There must be evidence that no other types of munitions [e.g., grenades] were used or are present at the MRS to place an MRS into this category.)	1
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	0
LOCATION OF MUNITIONS	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 25).	**15**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Location of Munitions*** classifications in the space provided.

Based on RI characterization activities at the Shell Burial Grounds MRS, the bulk source for MEC and MD is buried approximately 25 feet to 35 feet bgs. Therefore, surface interactions such as wet/dry erosion and frost heave are not likely to impact source material (Section 8.4 MMRP RI Report).

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Table 4

EHE Module: Ease of Access Data Element Table

DIRECTIONS: Below are four classifications of barrier types that can surround an MRS and their descriptions. The barrier type is directly related to the ease of public access to the MRS. Circle the score that corresponds with the ease of access to the MRS.

Note: The term *barrier* is defined in Appendix C of the Primer.

Classification	Description	Score
No barrier	◆ There is no barrier preventing access to any part of the MRS (i.e., all parts of the MRS are accessible).	10
Barrier to MRS access is incomplete	◆ There is a barrier preventing access to parts of the MRS, but not the entire MRS.	8
Barrier to MRS access is complete but not monitored	◆ There is a barrier preventing access to all parts of the MRS, but there is no surveillance (e.g., by a guard) to ensure that the barrier is effectively preventing access to all parts of the MRS.	**5**
Barrier to MRS access is complete and monitored	◆ There is a barrier preventing access to all parts of the MRS, and there is active, continual surveillance (e.g., by a guard, video monitoring) to ensure that the barrier is effectively preventing access to all parts of the MRS.	0
EASE OF ACCESS	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ease of Access*** classification in the space provided.

While this MRS is completely fenced and posted with warning signs and PTA's safety office restricts access to the area, the area is not monitored (Section 6.4.2 MMRP RI Report).

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Table 5

EHE Module: Status of Property Data Element Table

DIRECTIONS: Below are three classifications of the status of a property within the Department of Defense (DoD) and their descriptions. Circle the score that corresponds with the status of property at the MRS.

Classification	Description	Score
Non-DoD control	◆ The MRS is at a location that is no longer owned by, leased to, or otherwise possessed or used by DoD. Examples are privately owned land or water bodies; land or water bodies owned or controlled by state, tribal, or local governments; and land or water bodies managed by other federal agencies. ◆ The MRS is at a location that is owned by DoD, but that DoD has leased to another entity and for which DoD does not control access 24 hours per day.	5
Scheduled for transfer from DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD, and DoD plans to transfer that land or water body to the control of another entity (e.g., a state, tribal, or local government; a private party; another federal agency) within 3 years from the date the Protocol is applied.	3
DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD. With respect to property that is leased or otherwise possessed, DoD must control access to the MRS 24 hours per day, every day of the calendar year.	**0**
STATUS OF PROPERTY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Status of Property*** classification in the space provided.

This MRS is located on land owned by DoD; therefore, DoD control was selected (Section 6.4.2 MMRP RI Report).

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Table 6

EHE Module: Population Density Data Element Table

DIRECTIONS: Below are three classifications for population density and their descriptions. Determine the population density per square mile that most closely corresponds with the population of the MRS, including the area within a two-mile radius of the MRS's perimeter. Circle the most appropriate score.

Note: Use the U.S. Census Bureau tract data available to capture the **highest** population density within a two-mile radius of the perimeter of the MRS.

Classification	Description	Score
> 500 persons per square mile	◆ There are more than 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	5
100–500 persons per square mile	◆ There are 100 to 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	**3**
< 100 persons per square mile	◆ There are fewer than 100 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	1
POPULATION DENSITY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**3**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Density*** classification in the space provided.

According to the census bureau website, in the 2000 census there were 148 people per square mile in the census tract associated with that portion of Rockaway Township that falls within a 2-mile radius of this MRS' perimeter and 310 people per square mile in the census tract associated with that portion of Jefferson Township that falls within a 2-mile radius of this MRS' perimeter (www.census.gov).

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Table 7

EHE Module: Population Near Hazard Data Element Table

DIRECTIONS: Below are six classifications describing the number of inhabited structures near the MRS. The number of inhabited buildings relates to the potential population near the MRS. Determine the number of inhabited structures within two miles of the MRS boundary and circle the score that corresponds with the number of inhabited structures.

Note: The term *inhabited structures* is defined in Appendix C of the Primer.

Classification	Description	Score
26 or more inhabited structures	◆ There are 26 or more inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	**5**
16 to 25 inhabited structures	◆ There are 16 to 25 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	4
11 to 15 inhabited structures	◆ There are 11 to 15 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	3
6 to 10 inhabited structures	◆ There are 6 to 10 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	2
1 to 5 inhabited structures	◆ There are 1 to 5 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	1
0 inhabited structures	◆ There are no inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	0
POPULATION NEAR HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Near Hazard*** classification in the space provided.

No structures are present within the MRS. Although this MRS is undeveloped, it is located within 2 miles of downtown PTA which contains hundreds of buildings for residential, administrative, training, and maintenance purposes (Section 6.4.2 MMRP RI Report).

DRAFT

Table 8

EHE Module: Types of Activities/Structures Data Element Table

DIRECTIONS: Below are five classifications of activities and/or inhabited structures and their descriptions. Review the types of activities that occur and/or structures that are present within two miles of the MRS and circle the scores that correspond with **all** the activities/structure classifications at the MRS.

Note: The term *inhabited structure* is defined in Appendix C of the Primer.

Classification	Description	Score
Residential, educational, commercial, or subsistence	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with any of the following purposes: residential, educational, child care, critical assets (e.g., hospitals, fire and rescue, police stations, dams), hotels, commercial, shopping centers, playgrounds, community gathering areas, religious sites, or sites used for subsistence hunting, fishing, and gathering.	**5**
Parks and recreational areas	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with parks, nature preserves, or other recreational uses.	**4**
Agricultural, forestry	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with agriculture or forestry.	3
Industrial or warehousing	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with industrial activities or warehousing.	**2**
No known or recurring activities	◆ There are no known or recurring activities occurring up to two miles from the MRS's boundary or within the MRS's boundary.	1
TYPES OF ACTIVITIES/STRUCTURES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Types of Activities/Structures*** classifications in the space provided.

No buildings are present within the MRS; however within a two mile radius of this site are residential dwellings, including military housing, a child care center, fire and rescue services, a golf course and other recreational areas on PTA, and industrial buildings (Section 6.4.2 MMRP RI Report).

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Table 9

EHE Module: Ecological and/or Cultural Resources Data Element Table

DIRECTIONS: Below are four classifications of ecological and/or cultural resources and their descriptions. Review the types of resources present and circle the score that corresponds with the ecological and/or cultural resources present on the MRS.

Note: The terms *ecological resources* and *cultural resources* are defined in Appendix C of the Primer.

Classification	Description	Score
Ecological and cultural resources present	◆ There are both ecological and cultural resources present on the MRS.	5
Ecological resources present	◆ There are ecological resources present on the MRS.	3
Cultural resources present	◆ There are cultural resources present on the MRS.	3
No ecological or cultural resources present	◆ There are no ecological resources or cultural resources present on the MRS.	**0**
ECOLOGICAL AND/OR CULTURAL RESOURCES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ecological and/or Cultural Resources*** classification in the space provided.

There are no known ecological receptors or cultural resources on this MRS (Section 6.4.2 MMRP RI Report).

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Table 10
Determining the EHE Module Rating

DIRECTIONS:

1. From Tables 1–9, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **EHE Module Total** box below.
4. Circle the appropriate range for the **EHE Module Total** below.
5. Circle the **EHE Module Rating** that corresponds to the range selected and record this value in the **EHE Module Rating** box found at the bottom of the table.

Note:
An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
Explosive Hazard Factor Data Elements			
Munitions Type	Table 1	**30**	**35**
Source of Hazard	Table 2	**5**	
Accessibility Factor Data Elements			
Location of Munitions	Table 3	**15**	**20**
Ease of Access	Table 4	**5**	
Status of Property	Table 5	**0**	
Receptor Factor Data Elements			
Population Density	Table 6	**3**	**13**
Population Near Hazard	Table 7	**5**	
Types of Activities/Structures	Table 8	**5**	
Ecological and/or Cultural Resources	Table 9	**0**	
EHE MODULE TOTAL			**68**

EHE Module Total	EHE Module Rating
92 to 100	A
82 to 91	B
71 to 81	C
60 to 70	**D**
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected Explosive Hazard
EHE MODULE RATING	**D**

Table 11

CHE Module: CWM Configuration Data Element Table

DIRECTIONS: Below are seven classifications of CWM configuration and their descriptions. Circle the scores that correspond with **all** the CWM configurations known or suspected to be present at the MRS.

Note: The terms *CWM/UXO, CWM/DMM, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
CWM, that are either UXO, or explosively configured damaged DMM	The CWM known or suspected of being present at the MRS are: ◆ CWM that are UXO (i.e., CWM/UXO) ◆ Explosively configured CWM that are DMM (i.e., CWM/DMM) that have been damaged.	30
CWM mixed with UXO	◆ The CWM known or suspected of being present at the MRS are undamaged CWM/DMM or CWM not configured as a munition that are commingled with conventional munitions that are UXO.	25
CWM, explosive configuration that are undamaged DMM	◆ The CWM known or suspected of being present at the MRS are explosively configured CWM/DMM that have not been damaged.	20
CWM/DMM, not explosively configured or CWM, bulk container	The CWM known or suspected of being present at the MRS are: ◆ Nonexplosively configured CWM/DMM either damaged or undamaged ◆ Bulk CWM (e.g., ton container).	15
CAIS K941 and CAIS K942	◆ The CWM/DMM known or suspected of being present at the MRS are CAIS K941-toxic gas set M-1 or CAIS K942-toxic gas set M-2/E11.	12
CAIS (chemical agent identification sets)	◆ CAIS, other than CAIS K941 and K942, are known or suspected of being present at the MRS.	10
Evidence of no CWM	◆ Following investigation, the physical evidence indicates that CWM are not present at the MRS, or the historical evidence indicates that CWM are not present at the MRS.	**0**
CWM CONFIGURATION	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the *CWM Configuration* classifications in the space provided.

No known or suspected CWM hazard has been reported at the Shell Burial Grounds MRS. In addition, there is no evidence of CWM use throughout PTA's history (MMRP SI Report Section 2).

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Tables 12-19

No known or suspected CWM hazard is expected at this site. Therefore, Tables 12 through 19 have been intentionally omitted according to Active Army Guidance.

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Table 20
Determining the CHE Module Rating

DIRECTIONS:

1. From Tables 11–19, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **CHE Module Total** box below.
4. Circle the appropriate range for the **CHE Module Total** below.
5. Circle the **CHE Module Rating** that corresponds to the range selected and record this value in the **CHE Module Rating** box found at the bottom of the table.

Note:
An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
CWM Hazard Factor Data Elements			
CWM Configuration	Table 11	0	0
Sources of CWM	Table 12	-	
Accessibility Factor Data Elements			
Location of CWM	Table 13	-	-
Ease of Access	Table 14	-	
Status of Property	Table 15	-	
Receptor Factor Data Elements			
Population Density	Table 16	-	-
Population Near Hazard	Table 17	-	
Types of Activities/Structures	Table 18	-	
Ecological and/or Cultural Resources	Table 19	-	
CHE MODULE TOTAL			0

CHE Module Total	CHE Module Rating
92 to 100	A
82 to 91	B
71 to 81	C
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected CWM Hazard
CHE MODULE RATING	**No Known or Suspected CWM Hazard**

Table 21

HHE Module: Groundwater Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's groundwater and their comparison values (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant ratios together, including any additional groundwater contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the groundwater, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
Groundwater is known to be contaminated at various locations throughout Picatinny Arsenal. However, groundwater throughout the installation are being addressed under the IRP and will not be included in the Active Army MMRP Program.			

CHF Scale	CHF Value	Sum The Ratios	
CHF > 100	H (High)	$CHF = \Sigma \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	M (Medium)		
2 > CHF	L (Low)		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the groundwater is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the groundwater to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater receptors at the MRS.

Classification	Description	Value
Identified	There is a threatened water supply well downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer).	H
Potential	There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer).	M
Limited	There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only).	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Groundwater MC Hazard ❑

Table 22

HHE Module: Surface Water – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value.** Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF,** use the **CHF Scale** to determine and record the **CHF Value.** If there is no known or suspected MC hazard with human endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
MC are being addressed as part of the IRP and will not be included in the Active Army MMRP Program.			
CHF Scale	**CHF Value**	**Sum The Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Surface Water (Human Endpoint) MC Hazard ❑

Table 23

HHE Module: Sediment – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with human endpoints present in the sediment, select the box at the bottom of the table.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
MC are being addressed as part of the IRP and will not be included in the Active Army MMRP Program.			
CHF Scale	**CHF Value**	**Sum The Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Sediment (Human Endpoint) MC Hazard ❑

Table 24

HHE Module: Surface Water – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
MC are being addressed as part of the IRP and will not be included in the Active Army MMRP Program.			
CHF Scale	**CHF Value**	**Sum the Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Surface Water (Ecological Endpoint) MC Hazard ❑

Table 25

HHE Module: Sediment – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the sediment, select the box at the bottom of the table.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
MC are being addressed as part of the IRP and will not be included in the Active Army MMRP Program.			
CHF Scale	**CHF Value**	**Sum the Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Sediment (Ecological Endpoint) MC Hazard ❑

Table 26

HHE Module: Surface Soil Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface soil and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface soil contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the surface soil, select the box at the bottom of the table.

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Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratio
MC are being addressed as part of the IRP and will not be included in the Active Army MMRP Program.			

CHF Scale	CHF Value	Sum the Ratios	
CHF > 100	H (High)	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	M (Medium)		
2 > CHF	L (Low)		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface soil is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface soil has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface soil to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface soil to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface soil to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface soil to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Surface Soil MC Hazard ❑

Table 27

HHE Module: Supplemental Contaminant Hazard Factor Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Only use this table if there are more than five contaminants in any given medium present at the MRS. This is a supplemental table designed to hold information about contaminants that do not fit in the previous tables. Indicate the **media** in which these contaminants are present. Then record all **contaminants**, their **maximum concentrations** and their **comparison values** (from Appendix B of the Primer) in the table below. Calculate and record the **ratio** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** for each medium on the appropriate media-specific tables.

Note: Do not add ratios from different media.

Media	Contaminant	Maximum Concentration	Comparison Value	Ratio

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Table 28

Determining the HHE Module Rating

DIRECTIONS:

1. Record the letter values (H, M, L) for the **Contaminant Hazard**, **Migration Pathway**, and **Receptor Factors** for the media (from Tables 21–26) in the corresponding boxes below.
2. Record the media's three-letter combinations in the **Three-Letter Combination** boxes below (three-letter combinations are arranged from Hs to Ms to Ls).
3. Using the **HHE Ratings** provided below, determine each media's rating (A–G) and record the letter in the corresponding **Media Rating** box below.

Media (Source)	**Contaminant Hazard Factor Value**	**Migratory Pathway Factor Value**	**Receptor Factor Value**	Three-Letter Combination (Hs-Ms-Ls)	Media Rating (A-G)
Groundwater (Table 21)	-	-	-	-	-
Surface Water/Human Endpoint (Table 22)	-	-	-	-	-
Sediment/Human Endpoint (Table 23)	-	-	-	-	-
Surface Water/Ecological Endpoint (Table 24)	-	-	-	-	-
Sediment/Ecological Endpoint (Table 25)	-	-	-	-	-
Surface Soil (Table 26)	-	-	-	-	-

DIRECTIONS (cont.):

4. Select the single highest Media Rating (A is highest; G is lowest) and enter the letter in the **HHE Module Rating** box.

Note:

An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more media, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

HHE MODULE RATING	-

HHE Ratings (for reference only)

Combination	**Rating**
HHH	A
HHM	B
HHL	C
HMM	
HML	D
MMM	
HLL	E
MML	
MLL	F
LLL	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected MC Hazard

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Table 29
MRS Priority

DIRECTIONS: In the chart below, circle the letter **rating** for each module recorded in Table 10 (EHE), Table 20 (CHE), and Table 28 (HHE). Circle the corresponding numerical **priority** for each module. If information to determine the module rating is not available, choose the appropriate alternative module rating. The MRS Priority is the single highest priority; record this relative priority in the **MRS Priority or Alternative MRS Rating** at the bottom of the table.

Note: An MRS assigned Priority 1 has the highest relative priority; an MRS assigned Priority 8 has the lowest relative priority. Only an MRS with CWM known or suspected to be present can be assigned Priority 1; an MRS that has CWM known or suspected to be present cannot be assigned Priority 8.

EHE Rating	Priority	CHE Rating	Priority	HHE Rating	Priority
		A	**1**		
A	**2**	**B**	**2**	**A**	**2**
B	**3**	**C**	**3**	**B**	**3**
C	**4**	**D**	**4**	**C**	**4**
D	**5**	**E**	**5**	**D**	**5**
E	**6**	**F**	**6**	**E**	**6**
F	**7**	**G**	**7**	**F**	**7**
G	**8**			**G**	**8**
Evaluation Pending		Evaluation Pending		Evaluation Pending	
No Longer Required		No Longer Required		**No Longer Required**	
No Known or Suspected Explosive Hazard		**No Known or Suspected CWM Hazard**		No Known or Suspected MC Hazard	
MRS PRIORITY or ALTERNATIVE MRS RATING				**5**	

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FORMER OPERATIONAL AREAS MRS

Table A
MRS Background Information

DIRECTIONS: Record the background information below for the Munitions Response Site (MRS) to be evaluated. Much of this information is available from Service and DoD databases. If the MRS is located on a FUDS property, the suitable FUDS property information should be substituted. In the **MRS Summary**, briefly describe the UXO, DMM, or MC that are known or suspected to be present, the exposure setting (the MRS's physical environment), any other incidental nonmunitions-related contaminants (e.g., benzene, trichloroethylene) found at the MRS, and any potentially exposed human and ecological receptors. If possible, include a map of the MRS.

Munitions Response Site Name/AEDB-R #: Former Operational Areas (PICA-006-R-01)

Component: Army

Installation/Property Name: Picatinny Arsenal, NJ

Location (City, County, State): Morris County, New Jersey

Site Name/Project Name (Project No.): Former Operational Areas / Picatinny Arsenal RI (038160030000)

Date Information Entered/Updated: November 2013

Preparer's Name/Organization/Phone: Layne Young, ARCADIS-US, Inc. (410.332.4806)

Point of Contact (Name/Phone): Nancy Flaherty (410.779.2796)

Project Phase (check only one):

❑ PA	❑ SI	✠ RI	❑ FS	❑ RD
❑ RA-C	❑ RIP	❑ RA-O	❑ RC	❑ LTM

Media Evaluated (check all that apply):

❑ Groundwater	❑ Sediment (human receptor)
✠ Surface soil	❑ Surface Water (ecological receptor)
❑ Sediment (ecological receptor)	❑ Surface Water (human receptor)

MRS Summary:

MRS Description: Describe the munitions-related activities that occurred at the installation, the dates of operation, and the Unexploded Ordnance (UXO), Discarded Military Munitions (DMM), or Munitions Constituents (MC) known or suspected to be present. When possible, identify munitions, CWM, and MC by type.

The Former Operational Areas MRS (PICA-006-R-01) consists of 1,880 acres across PTA southwest of Lake Denmark to the southern boundary of PTA, excluding operational ranges and other RI MRS footprints. The Former Operational Areas MRS has dozens of buildings used for various purposes including manufacturing, storage, testing, research and development (R&D), and administration. This MRS also contains parking lots, recreational areas, including a large portion of the golf course, and a significant amount of undeveloped property.

Throughout the years numerous munitions and explosives of concern (MEC) have been found throughout this MRS. While the exact source of the MEC is unknown, the 1973 *DoD, Executive Order 11508 PTA Survey Report, Picatinny Arsenal, Dover, New Jersey*, indicated the presence of the following areas within this MRS. These areas are not currently present on Picatinny Arsenal (PTA) and no further information is available.

- Nine hundred and seventy five acres of land on the northwestern portion of PTA used for the artillery firing of shells up to 155mm, as well as for fragmentation pattern testing. Although a large portion of the Code 300 Area is located within operational ranges, portions of it fall within both the 1926 Explosion Radius MRS and the Former Operational Areas MRS. The firing point and target area are not discussed in the 1973 report, and no other information is currently available regarding this area. During the Military Munitions Response Program (MMRP) remedial investigation (RI), investigations in the Code

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300 Area did not indicate the presence of an impact area within the Former Operational Areas MRS.

- A rocket surveillance area, on the eastern portion of PTA, was used for the surveillance of rockets under climatic conditions and for static firing.

- A testing area was located on the southern portion of PTA and was used to test mines, bombs, and bomblets under simulated tropical conditions as well as assess various equipment used to locate/detect munitions. It was reported that pyrotechnics and flares were also tested in this area.

- Additional testing reportedly conducted at various locations within this MRS included experiments with lead azide and other highly explosive components, as well as live ammunition environmental testing.

In addition, a collocated dredge pile and former sanitary landfill, a burial area, and an area used for miscellaneous waste and debris disposal, are also located within this MRS. All of these are located on the southern portion of PTA.

- The collocated dredge pile and former sanitary landfill cover approximately 13 acres; the dredge pile lies entirely within the limits of the landfill. The landfill is a reported MEC disposal area while the dredge pile consists of spoils from Green Pond Brook. In interviews with PTA personnel and contractors it was noted that MEC were identified during utility trenching operations in the landfill. MC for the former sanitary landfill and dredge pile are covered under the Installation Restoration Program (IRP) (*Final Record of Decision for Site 25/26, Picatinny, New Jersey*, January 2007). A total of 17 anomalies were identified within the AOI Former Sanitary Landfill and Dredge Pile portion of the Former Operational Areas MRS during the RI. No MEC was identified in the AOI, but eight BLU-36 submunitions were identified as MPPEH, as well as 13 items identified as MD (BLU-36 pieces, 155mm powder can, rocket pieces, and fragments).

- A waste burial area that covers approximately 8.5 acres is also located at the southern end of this MRS. The waste burial area was used as an unregulated disposal area and consists of undeveloped land in a low-lying wetland. The exact years of operation are unknown; however, extensive landfilling activities are believed to have occurred in the 1960s and 1970s. During a site walk in January 1998, munitions debris (MD), identified as from large projectiles, was observed in this area; no base plates or fuzes/nose plugs appeared to be installed on these projectiles. In addition, 40mm grenades were found in trenches installed under the IRP. MC at the waste burial area, which is associated with AEDB-R Sites PICA-067 and PICA-206 (for groundwater), are addressed under the IRP (*Final Record of Decision Site 180 (PICA 093) Waste Burial Area*, September 2007). During the RI no MEC was identified but 210 MD, consisting of flash tubes, 37mm projectile parts, 40mm and 60mm mortar parts, and 2.36-inch and 2.75-inch rocket components, were identified within the AOI.

- The miscellaneous waste and debris disposal area, known as Site 20/24, covers approximately 28 acres in the southwestern portion of PTA. Site 20/24 was used for munitions disposal and pyrotechnic testing. During a 2002 investigation, blocks of high explosives, flare bodies, 75mm and 155mm projectiles, and boosters and tailpieces from mortars were found at this site. MC at Site 20/24 are covered under the IRP. In 2003, approximately three acres of Site 20/24 was capped with a two-foot soil cover under the IRP-related Record of Decision (ROD) (*Site 20/24 Record of Decision*, November 2001). Additionally during an interview conducted on 30 April, 2013 (included in Appendix B) a mortar range with three separate firing points and a target area near the safe haven in AOI Site 20/24 (Figure 1-8) were identified. The munitions tested at the range consisted of 60mm and 81mm mortars with 120mm training rounds being fired from one of the firing points near the present day skeet range. During the RI a total of 320 anomalies were identified within the AOI Site 20/24 portion of the Former Operational Areas MRS. One UXO, a fuzed 60mm white phosphorous mortar, and two DMM, a 60mm HE mortar and a 40mm HE projectile, were identified within the AOI. Eight items were identified as MPPEH, five 81mm practice mortars, one 60mm mortar, one 60mm practice mortar, and one BLU-26 submunition.

During the Military Munitions Response Program (MMRP) Remedial Investigation (RI), the following MEC were found.

<u>Armor-Piercing (AP)</u>: 40 mm

<u>High Explosives (HE)</u>: 40mm and 60mm

<u>High Explosive Anti-Tank (HEAT)</u>: Grenade rifle and fuze, 3.5" HEAT Cones

<u>Illumination</u>: 105mm, 40mm flare, 60mm body, canister, and tail boom, 81mm mortar body and tail boom, flare body, Illumination candle body, spacer, and tail boom

<u>Mines</u>: Fragmentation Mine and M79 Anti tank mine, training

<u>Practice</u>: 81mm mortar, M50 60mm mortar, 20mm projectile, 4.2" mortar

<u>Rockets</u>: 2.36" motor, 2.36" warhead, 2.75" fin, 2.75" Rocket Venturi, 3.5" Bazooka rocket motor, 3.5" ballistic cone, 3.5" motor, 3.5" warhead, fin

<u>Submunitions</u>: BLU-36, M32/38/40 Blu 26b, M42

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Various: 60mm mortar, 81mm M374 body, wax filled, 155 mm powder can, 22mm subcaliber, 30mm projectile, 37mm casing and projectile, 40mm smoke canister, 40mm casing, and projectile, 40mm yellow smoke parachute, 60 mm mortar fin and tail boom, 7" hand grenade, 75mm, 81mm spacer and tail boom, BLU 36 striker plate, BLU-26/36 sleeve fragment, booster cup, burster tube, detonators, miscellaneous flares and flash tubes, various fuzes, smoke canisters, M1 clip, M51 booster, and part of an F2 Mortar

White Phosphorous: M302 60mm

MC Summary

MC for the collocated dredge pile and former sanitary landfill (*Final Record of Decision for Site 25/26, Picatinny, New Jersey*, January 2007), the waste burial area (*Final Record of Decision Site 180 (PICA 093) Waste Burial Area*, September 2007), and the miscellaneous waste and debris disposal area (*Site 20/24 Record of Decision*, November 2001) are covered under the IRP.

For the remainder of the MRS, 89 gridded soil samples and 27 biased soil samples were collected under the MMRP RI and analyzed for explosives and select metals. Not all samples were analyzed for all analytes. Analysis of these samples indicated the presence of manganese at two locations at concentrations above the PTA-specific background concentration and the New Jersey Department of Environmental Protection (NJDEP) residential soil remediation standard (SRS). Eight metals, aluminum, antimony, barium, cadmium, copper, lead, manganese, and zinc were also found at concentrations above the ecological screening levels. No explosive compounds were found at concentrations above the NJDEP residential SRS or the ecological screening levels. All soil samples were collected from less than two feet below ground surface (bgs). Based on the risk assessment conducted for this MRS, no risk for MC was identified.

Description of Pathways (Human and Ecological):

Complete exposure pathways exist for:

- PTA personnel, PTA residents, recreationists, contractors/visitors, and biota who may contact MEC via handling/treading underfoot in surface soil.
- PTA personnel, PTA residents, recreationists, contractors/visitors, and biota who may contact MC in surface soil, surface water, or surficial sediment.
- Contractors/visitors and biota who may contact MEC or MC in subsurface soil through intrusive activities.

Potentially complete exposure pathways exist for:

- PTA personnel, PTA residents, recreationists, contractors/visitors, and biota who may contact MEC via handling/treading underfoot in surficial sediment.
- Contractors/visitors who may contact MEC in subsurface sediment through intrusive activities.
- PTA personnel and PTA residents who may contact MC in groundwater via ingestion and dermal contact.
- Recreationists and ecological receptors who may be exposed to MC through the food chain.

Description of Receptors (Human and Ecological):

While the majority of the Former Operational Areas MRS is undeveloped area consisting of patches of forest, wetlands, lakes, ponds, and streams, a portion of the MRS is developed and contains buildings used for manufacturing, storage, testing, R&D, administration, and recreation. PTA currently employs approximately 3,900 people; approximately 750 military personnel and immediate family members reside at the on-post housing (Section 6.5.3 MMRP RI Report).

PTA contains the largest tract of undeveloped, forested public land in the New Jersey Highlands Region. The collective acreage of PTA's undeveloped lands that are contiguous with adjacent public lands and safety easements on adjacent private properties is 11,368 acres. The connectivity between undeveloped parcels provides important habitat for wildlife species with large home ranges, and it facilitates species migration and recruitment. The unbroken forested area may provide seasonal habitat for the federally listed endangered Indiana bat (*Myotis sodalis*) as they were documented in 1993 and 1994 hibernating in abandoned mines within 2 miles (3,219 meters) of PTA. It is also believed that the Indiana bat depends on PTA for summer habitat. According to a Screening Level Ecological Report for Site 54 at PTA, a summer roost area for the Indiana bat is located in Area J near the G-2 Pond; this pond is located very close to the boundary of this site. Furthermore, the Forest and Wildlife Corridor is located within this MRS. This corridor incorporate dense forests and wetland areas and several sensitive species, including the veery (Catharus fuscescens), barred owl (*Strix varia*), and American woodcock (*Scolopax minor*). According to NJDEP's i-MAP landscape project layer, a habitat with at least one occurrence of a state-threatened species is present at this MRS (Section 6.5.3 MMRP RI Report).

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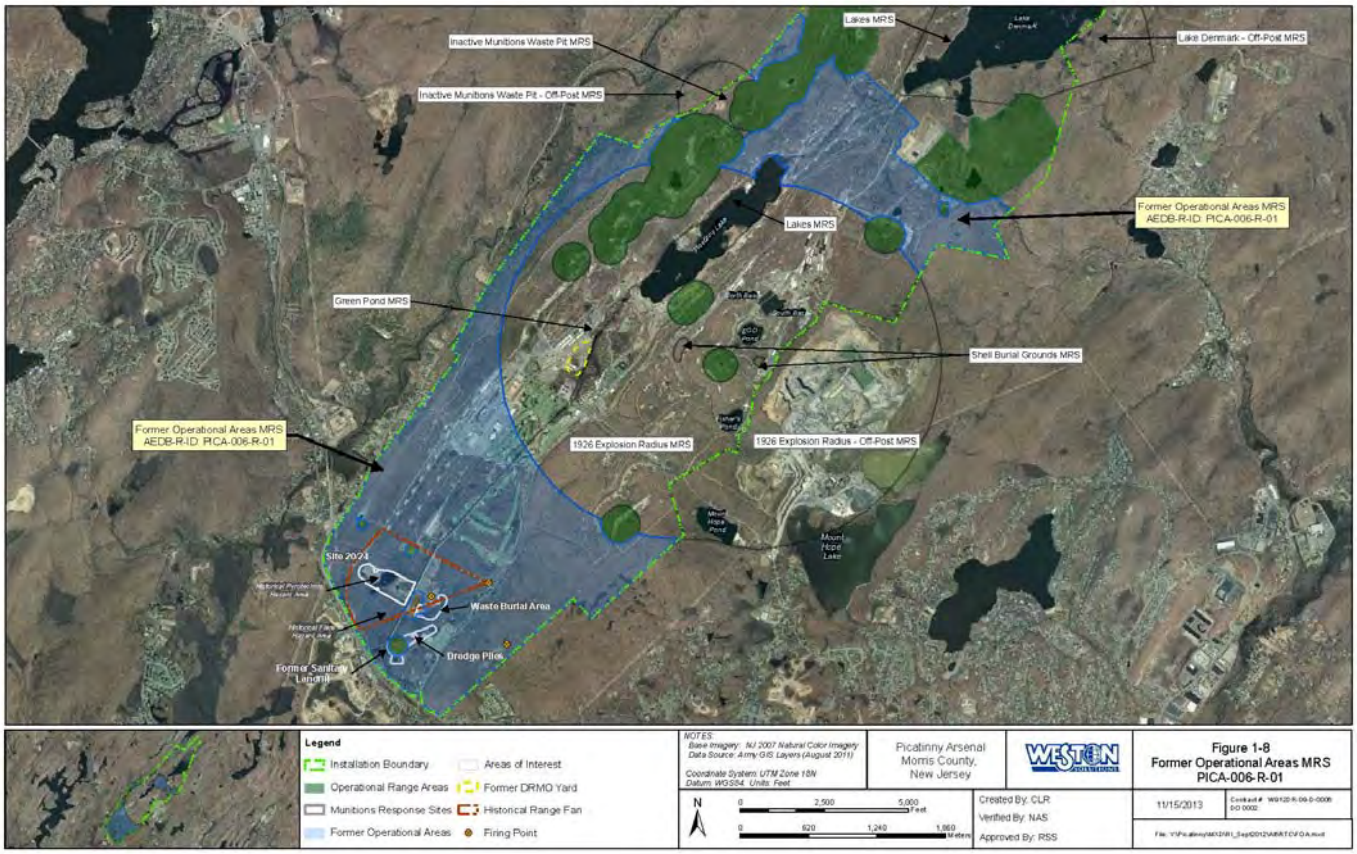
Lakes MRS
Lake Denmark - Off-Post MRS
Inactive Munitions Waste Pit MRS
Inactive Munitions Waste Pit - Off-Post MRS
Former Operational Areas MRS
AEDB-R-ID: PICA-006-R-01
Lakes MRS
Green Pond MRS
Shell Burial Grounds MRS
Former Operational Areas MRS
AEDB-R-ID: PICA-006-R-01
1926 Explosion Radius MRS
1926 Explosion Radius - Off-Post MRS
Site 2021
Waste Burial Area
Dredge Piles
Former Sanitary Landfill
Legend
Installation Boundary
Areas of Interest
Operational Range Areas
Former DRMO Yard
Munitions Response Sites
Historical Range Fan
Former Operational Areas
Firing Point
NOTES
Base Imagery: NJ 2007 Natural Color Imagery
Data Source: Army GIS Layers (August 2011)
Coordinate System: UTM Zone 18N
Datum: WGS84 Units: Feet
Picatinny Arsenal
Morris County,
New Jersey
WESTON
Figure 1-8
Former Operational Areas MRS
PICA-006-R-01
N
0 2,500 5,000 Feet
0 620 1,240 1,860 Meters
Created By: CLR
Verified By: NAS
Approved By: RSS
11/15/2013

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Table 1

EHE Module: Munitions Type Data Element Table

DIRECTIONS: Below are 11 classifications of munitions and their descriptions. Circle the scores that correspond with **all** the munitions types known or suspected to be present at the MRS.

Note: The terms *practice munitions, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Sensitive	◆ UXO that are considered most likely to function upon any interaction with exposed persons (e.g., submunitions, 40mm high-explosive [HE] grenades, white phosphorus [WP] munitions, high-explosive antitank [HEAT] munitions, and practice munitions with sensitive fuzes, but excluding all other practice munitions). ◆ Hand grenades containing energetic filler. ◆ Bulk primary explosives, or mixtures of these with environmental media, such that the mixture poses an explosive hazard.	**30**
High explosive (used or damaged)	◆ UXO containing a high-explosive filler (e.g., RDX, Composition B), that are not considered "sensitive." ◆ DMM containing a high-explosive filler that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	**25**
Pyrotechnic (used or damaged)	◆ UXO containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades). ◆ DMM containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades) that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	**20**
High explosive (unused)	◆ DMM containing a high-explosive filler that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	**15**
Propellant	◆ UXO containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor) that are: ▪ Damaged by burning or detonation ▪ Deteriorated to the point of instability.	**15**
Bulk secondary high explosives, pyrotechnics, or propellant	◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM that are bulk secondary high explosives, pyrotechnic compositions, or propellant (not contained in a munitions), or mixtures of these with environmental media such that the mixture poses an explosive hazard.	**10**
Pyrotechnic (not used or damaged)	◆ DMM containing a pyrotechnic filler (i.e., red phosphorus), other than white phosphorus filler, that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	**10**
Practice	◆ UXO that are practice munitions that are not associated with a sensitive fuze. ◆ DMM that are practice munitions that are not associated with a sensitive fuze and that have not: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	**5**
Riot control	◆ UXO or DMM containing a riot control agent filler (e.g., tear gas).	3
Small arms	◆ Used munitions or DMM that are categorized as small arms ammunition. (Physical evidence or historical evidence that no other types of munitions [e.g., grenades, subcaliber training rockets, demolition charges] were used or are present on the MRS is required for selection of this category.)	2
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	0
MUNITIONS TYPE	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**30**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Munitions Type*** classifications in the space provided.

MEC found at this MRS during the MMRP RI include the following (Section 6.5 MMRP RI Report):

Armor-Piercing (AP): 40 mm

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Table 1

EHE Module: Munitions Type Data Element Table

DIRECTIONS: Below are 11 classifications of munitions and their descriptions. Circle the scores that correspond with **all** the munitions types known or suspected to be present at the MRS.

Note: The terms *practice munitions, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
High Explosives (HE): 40mm and 60mm		
High Explosive Anti-Tank (HEAT): Grenade rifle and fuze, 3.5" HEAT Cones		
Illumination: 105mm, 40mm flare, 60mm body, canister, and tail boom, 81mm mortar body and tail boom, flare body, Illumination candle body, spacer, and tail boom		
Mines: Fragmentation Mine and M79 Anti-tank mine, training		
Practice: 81mm mortar, M50 60mm mortar, 20mm projectile, 4.2" mortar		
Rockets: 2.36" motor, 2.36" warhead, 2.75" fin, 2.75" Rocket Venturi, 3.5" Bazooka rocket motor, 3.5" ballistic cone, 3.5" motor, 3.5" warhead, fin		
Submunitions: BLU-36, M32/38/40 Blu 26b, M42		
Various: 60mm mortar, 81mm M374 body, wax filled, 155 mm powder can, 22mm subcaliber, 30mm projectile, 37mm casing and projectile, 40mm smoke canister, 40mm casing, and projectile, 40mm yellow smoke parachute, 60 mm mortar fin and tail boom, 7" hand grenade, 75mm, 81mm spacer and tail boom, BLU 36 striker plate, BLU-26/36 sleeve fragment, booster cup, burster tube, detonators, miscellaneous flares and flash tubes, various fuzes, smoke canisters, M1 clip, M51 booster, and part of an F2 Mortar		
White Phosphorous: M302 60mm		
Furthermore, according to information from PTA's safety office, MEC found at this MRS in the past have included: projectiles - 20-mm (HE), 37-mm (type unknown), 40-mm (type unknown), 57-mm HE, 90mm practice, 105mm (practice), 122 mm (type unknown), 152mm (practice), 155mm (practice); mortars – 81mm (illumination and practice); rockets – 3.5 inch (practice); small arms – types not provided; and misc – empty grenades and mines, fuzes, and simulated pyrotechnics. Sensitive was selected due to the presence of ordnance that contains high explosive fillers that have the potential to be unstable and contain sensitive fuzes, as well as the discovery of a white phosphorus mortar during the MMRP RI.		

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Table 2

EHE Module: Source of Hazard Data Element Table

DIRECTIONS: Below are 11 classifications describing sources of explosive hazards. Circle the scores that correspond with **all** the sources of explosive hazards known or suspected to be present at the MRS.

Note: The terms *former range, practice munitions, small arms range, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Former range	◆ The MRS is a former military range where munitions (including practice munitions with sensitive fuzes) have been used. Such areas include impact or target areas and associated buffer and safety zones.	**10**
Former munitions treatment (i.e., OB/OD) unit	◆ The MRS is a location where UXO or DMM (e.g., munitions, bulk explosives, bulk pyrotechnic, or bulk propellants) were burned or detonated for the purpose of treatment prior to disposal.	8
Former practice munitions range	◆ The MRS is a former military range on which only practice munitions without sensitive fuzes were used.	6
Former maneuver area	◆ The MRS is a former maneuver area where no munitions other than flares, simulators, smokes, and blanks were used. There must be evidence that no other munitions were used at the location to place an MRS into this category.	5
Former burial pit or other disposal area	◆ The MRS is a location where DMM were buried or disposed of (e.g., disposed of into a water body) without prior thermal treatment.	**5**
Former industrial operating facilities	◆ The MRS is a location that is a former munitions maintenance, manufacturing, or demilitarization facility.	4
Former firing points	◆ The MRS is a firing point, where the firing point is delineated as an MRS separate from the rest of a former military range.	4
Former missile or air defense artillery emplacements	◆ The MRS is a former missile defense or air defense artillery (ADA) emplacement not associated with a military range.	2
Former storage or transfer points	◆ The MRS is a location where munitions were stored or handled for transfer between different modes of transportation (e.g., rail to truck, truck to weapon system).	2
Former small arms range	◆ The MRS is a former military range where only small arms ammunition was used. (There must be evidence that no other types of munitions [e.g., grenades] were used or are present to place an MRS into this category.)	1
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that no UXO or DMM are present, or there is historical evidence indicating that no UXO or DMM are present.	0
SOURCE OF HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**10**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Source of Hazard*** classifications in the space provided.

According to an Installation Survey Report, in 1973 PTA had 2,036 acres used for R&D and testing. Much of this acreage overlaps with the Former Operational Areas MRS. This acreage included areas used for artillery firing, rocket surveillance, QA inspections and nuclear component testing, computer centers, experimental projects for lead azide and other highly explosive components, and environmental testing of live ammunition. Former Range was selected since portions of this site were historically used for munitions testing.

This MRS also includes a dredge pile and former sanitary landfill, which was used for MEC disposal, and two miscellaneous waste disposal areas (Section 6.5 MMRP RI Report).

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Table 3

EHE Module: Location of Munitions Data Element Table

DIRECTIONS: Below are eight classifications of munitions locations and their descriptions. Circle the scores that correspond with **all** the locations where munitions are known or suspected to be present at the MRS.

Note: The terms *confirmed, surface, subsurface, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Confirmed surface	◆ Physical evidence indicates that there are UXO or DMM on the surface of the MRS. ◆ Historical evidence (i.e., a confirmed report such as an explosive ordnance disposal [EOD], police, or fire department report that an incident or accident that involved UXO or DMM occurred) indicates there are UXO or DMM on the surface of the MRS.	**25**
Confirmed subsurface, active	◆ Physical evidence indicates the presence of UXO or DMM in the subsurface of the MRS, and the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose UXO or DMM. ◆ Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS and the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose UXO or DMM.	**20**
Confirmed subsurface, stable	◆ Physical evidence indicates the presence of UXO or DMM in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed. ◆ Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed.	15
Suspected (physical evidence)	◆ There is physical evidence (e.g., munitions debris such as fragments, penetrators, projectiles, shell casings, links, fins), other than the documented presence of UXO or DMM, indicating that UXO or DMM may be present at the MRS.	10
Suspected (historical evidence)	◆ There is historical evidence indicating that UXO or DMM may be present at the MRS.	5
Subsurface, physical constraint	◆ There is physical or historical evidence indicating that UXO or DMM may be present in the subsurface, but there is a physical constraint (e.g., pavement, water depth over 120 feet) preventing direct access to the UXO or DMM.	2
Small arms (regardless of location)	◆ The presence of small arms ammunition is confirmed or suspected, regardless of other factors such as geological stability. (There must be evidence that no other types of munitions [e.g., grenades] were used or are present at the MRS to place an MRS into this category.)	1
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	0
LOCATION OF MUNITIONS	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 25).	**25**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Location of Munitions*** classifications in the space provided.

During the MMRP RI, MEC were found at this MRS are depths ranging from the ground surface to 18 inches bgs. It is possible for natural processes to result in the movement, relocation, or unearthing of MEC. The topography of this MRS varies from steep slopes to low-lying wetlands and water bodies. The steep sloped areas are prone to erosion, shown by the amount of talus/debris witnessed at the bottom of cliffs and hills during the RI activities. The composition of the soils varies across the MRS, with some areas (sands and muck) prone to frost heave and others (gravelly stone areas) with a low potential. The MEC was identified above the frost line (3 feet) and the soils contained within the area range from muck to sandy loams and are moderately susceptible to frost heave. Therefore, surface interactions such as wet/dry erosion and frost heave are likely to impact source material.

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Table 4

EHE Module: Ease of Access Data Element Table

DIRECTIONS: Below are four classifications of barrier types that can surround an MRS and their descriptions. The barrier type is directly related to the ease of public access to the MRS. Circle the score that corresponds with the ease of access to the MRS.

Note: The term *barrier* is defined in Appendix C of the Primer.

Classification	Description	Score
No barrier	◆ There is no barrier preventing access to any part of the MRS (i.e., all parts of the MRS are accessible).	10
Barrier to MRS access is incomplete	◆ There is a barrier preventing access to parts of the MRS, but not the entire MRS.	**8**
Barrier to MRS access is complete but not monitored	◆ There is a barrier preventing access to all parts of the MRS, but there is no surveillance (e.g., by a guard) to ensure that the barrier is effectively preventing access to all parts of the MRS.	5
Barrier to MRS access is complete and monitored	◆ There is a barrier preventing access to all parts of the MRS, and there is active, continual surveillance (e.g., by a guard, video monitoring) to ensure that the barrier is effectively preventing access to all parts of the MRS.	0
EASE OF ACCESS	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**8**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ease of Access*** classification in the space provided.

Access to the majority of the Former Operational Areas MRS, including the AOI Code 300 Area, is not restricted once on the installation. Access to portions of the MRS (*i.e.*, the enclosure area) are restricted with a gated fence with a guard (Section 6.5 MMRP RI Report).

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Table 5

EHE Module: Status of Property Data Element Table

DIRECTIONS: Below are three classifications of the status of a property within the Department of Defense (DoD) and their descriptions. Circle the score that corresponds with the status of property at the MRS.

Classification	Description	Score
Non-DoD control	◆ The MRS is at a location that is no longer owned by, leased to, or otherwise possessed or used by DoD. Examples are privately owned land or water bodies; land or water bodies owned or controlled by state, tribal, or local governments; and land or water bodies managed by other federal agencies. ◆ The MRS is at a location that is owned by DoD, but that DoD has leased to another entity and for which DoD does not control access 24 hours per day.	5
Scheduled for transfer from DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD, and DoD plans to transfer that land or water body to the control of another entity (e.g., a state, tribal, or local government; a private party; another federal agency) within 3 years from the date the Protocol is applied.	3
DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD. With respect to property that is leased or otherwise possessed, DoD must control access to the MRS 24 hours per day, every day of the calendar year.	**0**
STATUS OF PROPERTY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Status of Property*** classification in the space provided.

This MRS is located on land owned by DoD; therefore, DoD control was selected (Section 6.5 MMRP RI Report).

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Table 6

EHE Module: Population Density Data Element Table

DIRECTIONS: Below are three classifications for population density and their descriptions. Determine the population density per square mile that most closely corresponds with the population of the MRS, including the area within a two-mile radius of the MRS's perimeter. Circle the most appropriate score.

Note: Use the U.S. Census Bureau tract data available to capture the **highest** population density within a two-mile radius of the perimeter of the MRS.

Classification	Description	Score
> 500 persons per square mile	◆ There are more than 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	5
100–500 persons per square mile	◆ There are 100 to 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	**3**
< 100 persons per square mile	◆ There are fewer than 100 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	1
POPULATION DENSITY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**3**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Density*** classification in the space provided.

According to the census bureau website, in the 2000 census there were 148 people per square mile in the census tract associated with that portion of Rockaway Township that falls within a 2-mile radius of this MRS' perimeter and 310 people per square mile in the census tract associated with that portion of Jefferson Township that falls within a 2-mile radius of this MRS' perimeter (www.census.gov).

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Table 7

EHE Module: Population Near Hazard Data Element Table

DIRECTIONS: Below are six classifications describing the number of inhabited structures near the MRS. The number of inhabited buildings relates to the potential population near the MRS. Determine the number of inhabited structures within two miles of the MRS boundary and circle the score that corresponds with the number of inhabited structures.

Note: The term *inhabited structures* is defined in Appendix C of the Primer.

Classification	Description	Score
26 or more inhabited structures	◆ There are 26 or more inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	**5**
16 to 25 inhabited structures	◆ There are 16 to 25 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	4
11 to 15 inhabited structures	◆ There are 11 to 15 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	3
6 to 10 inhabited structures	◆ There are 6 to 10 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	2
1 to 5 inhabited structures	◆ There are 1 to 5 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	1
0 inhabited structures	◆ There are no inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	0
POPULATION NEAR HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Near Hazard*** classification in the space provided.

While the majority of this MRS is undeveloped, it still contains numerous buildings used for various purposes, including manufacturing, storage, testing, R&D, administration, and housing. The MRS also contains parking lots, recreational areas, and undeveloped property (Section 6.5 MMRP RI Report).

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Table 8

EHE Module: Types of Activities/Structures Data Element Table

DIRECTIONS: Below are five classifications of activities and/or inhabited structures and their descriptions. Review the types of activities that occur and/or structures that are present within two miles of the MRS and circle the scores that correspond with **all** the activities/structure classifications at the MRS.

Note: The term *inhabited structure* is defined in Appendix C of the Primer.

Classification	Description	Score
Residential, educational, commercial, or subsistence	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with any of the following purposes: residential, educational, child care, critical assets (e.g., hospitals, fire and rescue, police stations, dams), hotels, commercial, shopping centers, playgrounds, community gathering areas, religious sites, or sites used for subsistence hunting, fishing, and gathering.	**5**
Parks and recreational areas	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with parks, nature preserves, or other recreational uses.	**4**
Agricultural, forestry	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with agriculture or forestry.	3
Industrial or warehousing	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with industrial activities or warehousing.	**2**
No known or recurring activities	◆ There are no known or recurring activities occurring up to two miles from the MRS's boundary or within the MRS's boundary.	1
TYPES OF ACTIVITIES/STRUCTURES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Types of Activities/Structures*** classifications in the space provided.

Within the boundary of this MRS and within two miles of the MRS boundary are hundreds of buildings used for various purposes, including manufacturing, storage, testing, R&D, administration, and housing. The MRS also contains parking lots, recreational areas, and undeveloped property (Section 6.5 MMRP RI Report).

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Table 9

EHE Module: Ecological and/or Cultural Resources Data Element Table

DIRECTIONS: Below are four classifications of ecological and/or cultural resources and their descriptions. Review the types of resources present and circle the score that corresponds with the ecological and/or cultural resources present on the MRS.

Note: The terms *ecological resources* and *cultural resources* are defined in Appendix C of the Primer.

Classification	Description	Score
Ecological and cultural resources present	◆ There are both ecological and cultural resources present on the MRS.	**5**
Ecological resources present	◆ There are ecological resources present on the MRS.	3
Cultural resources present	◆ There are cultural resources present on the MRS.	3
No ecological or cultural resources present	◆ There are no ecological resources or cultural resources present on the MRS.	0
ECOLOGICAL AND/OR CULTURAL RESOURCES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ecological and/or Cultural Resources*** classification in the space provided.

According to a Screening Level Ecological Report for Site 54 at PTA, a summer roost area for the Indiana bat is located in Area J near the G-2 Pond; this pond is located very close to the boundary of this site. Furthermore, the Forest and Wildlife Corridor is located within this site. This corridor incorporate dense forests and wetland areas and several sensitive species, including the veery (*Catharus fuscescens*), barred owl (*Strix varia*), and American woodcock (*Scolopax minor*) are known to inhabit this area. According to NJDEP's I-Map Landscape Project layer, this MRS contains habitat with at least one occurrence of a state threatened species. The PTA Administration and Research District in downtown PTA has been identified by the NJ Historic Preservation office (NJHPO) as a cultural resource (Section 6.5 MMRP RI Report).

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Table 10
Determining the EHE Module Rating

DIRECTIONS:

1. From Tables 1–9, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **EHE Module Total** box below.
4. Circle the appropriate range for the **EHE Module Total** below.
5. Circle the **EHE Module Rating** that corresponds to the range selected and record this value in the **EHE Module Rating** box found at the bottom of the table.

Note:
An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
Explosive Hazard Factor Data Elements			
Munitions Type	Table 1	**30**	**40**
Source of Hazard	Table 2	**10**	
Accessibility Factor Data Elements			
Location of Munitions	Table 3	**25**	**33**
Ease of Access	Table 4	**8**	
Status of Property	Table 5	**0**	
Receptor Factor Data Elements			
Population Density	Table 6	**3**	**18**
Population Near Hazard	Table 7	**5**	
Types of Activities/Structures	Table 8	**5**	
Ecological and/or Cultural Resources	Table 9	**5**	
EHE MODULE TOTAL			**91**

EHE Module Total	EHE Module Rating
92 to 100	A
82 to 91	**B**
71 to 81	C
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected Explosive Hazard
EHE MODULE RATING	**B**

Table 11

CHE Module: CWM Configuration Data Element Table

DIRECTIONS: Below are seven classifications of CWM configuration and their descriptions. Circle the scores that correspond with **all** the CWM configurations known or suspected to be present at the MRS.

Note: The terms *CWM/UXO, CWM/DMM, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
CWM, that are either UXO, or explosively configured damaged DMM	The CWM known or suspected of being present at the MRS are: ◆ CWM that are UXO (i.e., CWM/UXO) ◆ Explosively configured CWM that are DMM (i.e., CWM/DMM) that have been damaged.	30
CWM mixed with UXO	◆ The CWM known or suspected of being present at the MRS are undamaged CWM/DMM or CWM not configured as a munition that are commingled with conventional munitions that are UXO.	25
CWM, explosive configuration that are undamaged DMM	◆ The CWM known or suspected of being present at the MRS are explosively configured CWM/DMM that have not been damaged.	20
CWM/DMM, not explosively configured or CWM, bulk container	The CWM known or suspected of being present at the MRS are: ◆ Nonexplosively configured CWM/DMM either damaged or undamaged ◆ Bulk CWM (e.g., ton container).	15
CAIS K941 and CAIS K942	◆ The CWM/DMM known or suspected of being present at the MRS are CAIS K941-toxic gas set M-1 or CAIS K942-toxic gas set M-2/E11.	12
CAIS (chemical agent identification sets)	◆ CAIS, other than CAIS K941 and K942, are known or suspected of being present at the MRS.	10
Evidence of no CWM	◆ Following investigation, the physical evidence indicates that CWM are not present at the MRS, or the historical evidence indicates that CWM are not present at the MRS.	**0**
CWM CONFIGURATION	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the *CWM Configuration* classifications in the space provided.

No known or suspected CWM hazard has been reported at the Former Operational Areas MRS. In addition, there is no evidence of CWM use throughout PTA's history (MMRP SI Report Section 2).

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Tables 12-19

No known or suspected CWM hazard is expected at this site. Therefore, Tables 12 through 19 have been intentionally omitted according to Active Army Guidance.

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Table 20
Determining the CHE Module Rating

DIRECTIONS:

1. From Tables 11–19, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **CHE Module Total** box below.
4. Circle the appropriate range for the **CHE Module Total** below.
5. Circle the **CHE Module Rating** that corresponds to the range selected and record this value in the **CHE Module Rating** box found at the bottom of the table.

Note:
An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
CWM Hazard Factor Data Elements			
CWM Configuration	Table 11	0	0
Sources of CWM	Table 12	-	
Accessibility Factor Data Elements			
Location of CWM	Table 13	-	-
Ease of Access	Table 14	-	
Status of Property	Table 15	-	
Receptor Factor Data Elements			
Population Density	Table 16	-	-
Population Near Hazard	Table 17	-	
Types of Activities/Structures	Table 18	-	
Ecological and/or Cultural Resources	Table 19	-	
CHE MODULE TOTAL			0

CHE Module Total	CHE Module Rating
92 to 100	A
82 to 91	B
71 to 81	C
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected CWM Hazard
CHE MODULE RATING	**No Known or Suspected CWM Hazard**

Table 21

HHE Module: Groundwater Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's groundwater and their comparison values (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant ratios together, including any additional groundwater contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the groundwater, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No groundwater samples were collected from this MRS under the MMRP RI. In addition, groundwater throughout the installation are being addressed under the IRP and will not be included in the Active Army MMRP Program (Installation Action Plan, 2011).			

CHF Scale	CHF Value	Sum The Ratios	
CHF > 100	H (High)	$CHF = \Sigma \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	M (Medium)		
2 > CHF	L (Low)		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the groundwater is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the groundwater to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater receptors at the MRS.

Classification	Description	Value
Identified	There is a threatened water supply well downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer).	H
Potential	There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer).	M
Limited	There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only).	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Groundwater MC Hazard ☐

Table 22

HHE Module: Surface Water – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value.** Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF,** use the **CHF Scale** to determine and record the **CHF Value.** If there is no known or suspected MC hazard with human endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No surface water data were collected under the MMRP RI for this MRS.			
CHF Scale	**CHF Value**	**Sum The Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	
	No Known or Suspected Surface Water (Human Endpoint) MC Hazard	☐

Table 23

HHE Module: Sediment – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with human endpoints present in the sediment, select the box at the bottom of the table.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
No sediment data were collected under the MMRP RI investigation for this MRS.			
CHF Scale	**CHF Value**	**Sum The Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Sediment (Human Endpoint) MC Hazard ☐

Table 24

HHE Module: Surface Water – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No surface water data were collected under the MMRP RI investigation for this MRS.			
CHF Scale	**CHF Value**	**Sum the Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Surface Water (Ecological Endpoint) MC Hazard ☐

Table 25

HHE Module: Sediment – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the sediment, select the box at the bottom of the table.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
No sediment data were collected under the MMRP RI investigation for this MRS.			
CHF Scale	**CHF Value**	**Sum the Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	
	No Known or Suspected Sediment (Ecological Endpoint) MC Hazard	☐

Table 26

HHE Module: Surface Soil Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface soil and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface soil contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the surface soil, select the box at the bottom of the table.

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Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratio
While a value of 13.27 was calculate for the CHF, the risk assessment determined there is no known or suspected MC hazard present in the surface soil.			
CHF Scale	**CHF Value**	**Sum the Ratios**	13.27
CHF > 100	**H (High)**	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		M

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface soil is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface soil has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface soil to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	M

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface soil to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface soil to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface soil to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	M

No Known or Suspected Surface Soil MC Hazard ☑

Table 27

HHE Module: Supplemental Contaminant Hazard Factor Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Only use this table if there are more than five contaminants in any given medium present at the MRS. This is a supplemental table designed to hold information about contaminants that do not fit in the previous tables. Indicate the **media** in which these contaminants are present. Then record all **contaminants**, their **maximum concentrations** and their **comparison values** (from Appendix B of the Primer) in the table below. Calculate and record the **ratio** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** for each medium on the appropriate media-specific tables.

Note: Do not add ratios from different media.

Media	Contaminant	Maximum Concentration	Comparison Value	Ratio
Soil	Aluminum	44000	76000	0.58
Soil	Antimony	4.5	31	0.15
Soil	Barium	1900	16000	0.12
Soil	Cadmium	19	39	0.49
Soil	Copper	130	3100	0.04
Soil	Lead	250	400	0.63
Soil	Manganese	37000	3300	11.21
Soil	Strontium	680	47000	0.01
Soil	Zinc	990	23000	0.04
Soil	2,4-Dinitrotoluene	0.026	120	0.0002
Soil	Nitroglycerin	0.24	1000	0.0002
Soil	Tetryl	0.32	240	0.0013

All values given in mg/kg

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Table 28

Determining the HHE Module Rating

DIRECTIONS:

1. Record the letter values (H, M, L) for the **Contaminant Hazard**, **Migration Pathway**, and **Receptor Factors** for the media (from Tables 21–26) in the corresponding boxes below.
2. Record the media's three-letter combinations in the **Three-Letter Combination** boxes below (three-letter combinations are arranged from Hs to Ms to Ls).
3. Using the **HHE Ratings** provided below, determine each media's rating (A–G) and record the letter in the corresponding **Media Rating** box below.

Media (Source)	**Contaminant Hazard Factor Value**	**Migratory Pathway Factor Value**	**Receptor Factor Value**		Three-Letter Combination (Hs-Ms-Ls)		Media Rating (A-G)
Groundwater (Table 21)	-	-	-		-		-
Surface Water/Human Endpoint (Table 22)	-	-	-		-		-
Sediment/Human Endpoint (Table 23)	-	-	-		-		-
Surface Water/Ecological Endpoint (Table 24)	-	-	-		-		-
Sediment/Ecological Endpoint (Table 25)	-	-	-		-		-
Surface Soil (Table 26)	-	-	-		-		-

DIRECTIONS (cont.):

4. Select the single highest Media Rating (A is highest; G is lowest) and enter the letter in the **HHE Module Rating** box.

Note:

An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more media, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

HHE MODULE RATING	-

HHE Ratings (for reference only)

Combination	**Rating**
HHH	A
HHM	B
HHL	C
HMM	C
HML	D
MMM	D
HLL	E
MML	E
MLL	F
LLL	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected MC Hazard

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Table 29
MRS Priority

DIRECTIONS: In the chart below, circle the letter **rating** for each module recorded in Table 10 (EHE), Table 20 (CHE), and Table 28 (HHE). Circle the corresponding numerical **priority** for each module. If information to determine the module rating is not available, choose the appropriate alternative module rating. The MRS Priority is the single highest priority; record this relative priority in the **MRS Priority or Alternative MRS Rating** at the bottom of the table.

Note: An MRS assigned Priority 1 has the highest relative priority; an MRS assigned Priority 8 has the lowest relative priority. Only an MRS with CWM known or suspected to be present can be assigned Priority 1; an MRS that has CWM known or suspected to be present cannot be assigned Priority 8.

EHE Rating	Priority	CHE Rating	Priority	HHE Rating	Priority
		A	**1**		
A	**2**	**B**	**2**	**A**	**2**
B	**3**	**C**	**3**	B	3
C	**4**	**D**	**4**	**C**	**4**
D	**5**	**E**	**5**	D	5
E	**6**	**F**	**6**	**E**	**6**
F	**7**	**G**	**7**	**F**	**7**
G	**8**			**G**	**8**
Evaluation Pending		Evaluation Pending		Evaluation Pending	
No Longer Required		No Longer Required		No Longer Required	
No Known or Suspected Explosive Hazard		**No Known or Suspected CWM Hazard**		**No Known or Suspected MC Hazard**	
MRS PRIORITY or ALTERNATIVE MRS RATING				**3**	

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FORMER OPERATIONAL AREAS – MORTAR RANGE MRS

Table A
MRS Background Information

DIRECTIONS: Record the background information below for the Munitions Response Site (MRS) to be evaluated. Much of this information is available from Service and DoD databases. If the MRS is located on a FUDS property, the suitable FUDS property information should be substituted. In the **MRS Summary**, briefly describe the UXO, DMM, or MC that are known or suspected to be present, the exposure setting (the MRS's physical environment), any other incidental nonmunitions-related contaminants (e.g., benzene, trichloroethylene) found at the MRS, and any potentially exposed human and ecological receptors. If possible, include a map of the MRS.

Munitions Response Site Name/AEDB-R #: Former Operational Areas – Mortar Range(PICA-006-R-02)

Component: Army

Installation/Property Name: Picatinny Arsenal, NJ

Location (City, County, State): Morris County, New Jersey

Site Name/Project Name (Project No.): Former Operational Areas / Picatinny Arsenal RI (038160030000)

Date Information Entered/Updated: Deceomebr 2013

Preparer's Name/Organization/Phone: Nicole Sharkey/ Weston Solutions, Inc./610-701-3425

Point of Contact (Name/Phone): Nancy Flaherty (410.779.2796)

Project Phase (check only one):

❑ PA	❑ SI	✠ RI	❑ FS	❑ RD
❑ RA-C	❑ RIP	❑ RA-O	❑ RC	❑ LTM

Media Evaluated (check all that apply):

❑ Groundwater	❑ Sediment (human receptor)
✠ Surface soil	❑ Surface Water (ecological receptor)
❑ Sediment (ecological receptor)	❑ Surface Water (human receptor)

MRS Summary:

MRS Description: Describe the munitions-related activities that occurred at the installation, the dates of operation, and the Unexploded Ordnance (UXO), Discarded Military Munitions (DMM), or Munitions Constituents (MC) known or suspected to be present. When possible, identify munitions, CWM, and MC by type.

The Former Operational Areas- Mortar Range MRS (PICA-006-R-02) consists of 109.5 acres near the southern boundary of PTA, excluding operational ranges. The Former Operational Areas – Mortar Range MRS has several buildings used for various purposes including storage, testing, and research and development (R&D). This MRS also contains parking lots, and recreational areas (for hunting), and a significant amount of undeveloped property.

Within the center of the MRS is the miscellaneous waste and debris disposal area, known as Site 20/24, covers approximately 28 acres in the southwestern portion of PTA. Site 20/24 was used for munitions disposal and pyrotechnic testing. During a 2002 investigation, blocks of high explosives, flare bodies, 75mm and 155mm projectiles, and boosters and tailpieces from mortars were found at this site. In 2003, approximately three acres of Site 20/24 was capped with a two-foot soil cover under the IRP-related Record of Decision (ROD) (*Site 20/24 Record of Decision*, November 2001).

During an interview conducted post-RI field activities, a mortar range was identified in the southern portion of the Former Operational Areas MRS. The mortar range was discovered to have three separate firing points and a target area near the safe haven in Site 20/24. The munitions tested at the range consisted of 60mm and 81mm mortars with 120mm training rounds being fired from one of the firing points near the present day skeet range. No 120mm rounds have been identified within the MRS. It was determined that firing was conducted along line of site from near the intersection of Moody Rail Rd and Shinkle Rd.

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A total of 62 MEC items consisting of 60mm and 81mm mortars were identified either within/near the target area or along the line of sight from the firing points to the target area. Additionally, 27 MD items consisting of 60mm and 81mm mortars and mortar pieces were also identified within the surrounding area as well as other MD. The boundary of the historical mortar range boundary was modified to include MEC and MD associated with its former use (60mm and 81mm mortar training/testing). MD not potentially associated with the former use as a mortar range was excluded.

During the RI investigation no MEC was recovered from the area identified as the target area. However, during a 2002 investigation of Site 20/24 numerous MEC and MD were recovered. A soil cap was then constructed in 2002 over this portion of the site where elevated levels of PCBs and lead were identified and a smaller secondary cap was placed nearby over terminated excavations sites where munitions were found. It is likely that the majority of MEC and MD from former the target area would have been removed during the investigation or covered during the construction of the soil caps. However, MEC and MD along the line of fire and within the range boundaries were observed.

Also in the 1973 *DoD, Executive Order 11508 PTA Survey Report, Picatinny Arsenal, Dover, New Jersey*, a pyrotechnic testing area was identified near/within the Mortar Range. No pyrotechnic items were identified as MEC during the RI, but 89 MD items were identified as flares, a 60mm illumination canister, 40mm smoke canisters, flare bodies, flare caps, flare canisters, and casings.

Also identified in the 1973 Survey report a testing area was located on the southern portion of PTA and was used to test mines, bombs, and bomblets under simulated tropical conditions as well as assess various equipment used to locate/detect munitions. It was reported that pyrotechnics and flares were also tested in this area.

During the Military Munitions Response Program (MMRP) Remedial Investigation (RI), the following MEC were found.

<u>High Explosives (HE)</u>: 40mm and 60mm

<u>High Explosive Anti-Tank (HEAT)</u>: Grenade rifle and fuze, 3.5" HEAT Cones

<u>Practice</u>: 81mm mortar, M50 60mm mortar, 20mm projectile, 4.2" mortar

<u>Submunitions</u>: M32/38/40 Blu 26b, M42

<u>White Phosphorous</u>: M302 60mm

<u>And Various MD</u>: 60mm mortar, 81mm M374 body, wax filled, 155 mm powder can, 22mm subcaliber, 30mm projectile, 37mm casing and projectile, 40mm smoke canister, 40mm casing, and projectile, 40mm yellow smoke parachute, 60 mm mortar fin and tail boom, 7" hand grenade, 75mm, 81mm spacer and tail boom, BLU 36 striker plate, BLU-26/36 sleeve fragment, booster cup, burster tube, detonators, miscellaneous flares and flash tubes, various fuzes, smoke canisters, M1 clip, M51 booster, and part of an F2 Mortar

<u>MC Summary</u>

MC for the collocated miscellaneous waste and debris disposal area (*Site 20/24 Record of Decision*, November 2001) are covered under the IRP.

For the remainder of the MRS, 9 gridded soil samples were collected under the MMRP RI for the surrounding Former Operational Areas MRS and analyzed for explosives and select metals. Not all samples were analyzed for all analytes. Analysis of these samples indicated the presence of five metals, antimony, cadmium, copper, lead, and zinc at concentrations above the ecological screening levels. No explosive compounds were found at concentrations above the NJDEP residential SRS or the ecological screening levels. All soil samples were collected from less than two feet below ground surface (bgs). Based on the risk assessment conducted for the surrounding Former Operational Areas MRS, no risk for MC was identified.

<u>Description of Pathways (Human and Ecological):</u>

Complete exposure pathways exist for:

- PTA personnel, PTA residents, recreationists, contractors/visitors, and biota who may contact MEC via handling/treading underfoot in surface soil.
- PTA personnel, PTA residents, recreationists, contractors/visitors, and biota who may contact MC in surface soil, surface water, or surficial sediment.
- Contractors/visitors and biota who may contact MEC or MC in subsurface soil through intrusive activities.

Potentially complete exposure pathways exist for:

- PTA personnel and PTA residents who may contact MC in groundwater via ingestion and dermal contact.
- Recreationists and ecological receptors who may be exposed to MC through the food chain.

<u>Description of Receptors (Human and Ecological):</u>

While the majority of the Former Operational Areas – Mortar Range MRS is undeveloped area consisting of patches of forest, wetlands, a pond, and streams, a portion of the MRS is developed and contains buildings used for storage, testing, R&D, administration, and recreation. Human receptors identified for the Former Operational Areas – Mortar Range MRS include both current and anticipated future land users. The potential receptors include PTA personnel, residents, contractors (utility workers, construction workers), visitors, recreational users, and trespassers.

Ecological receptors (biota) for the purposes of the revised MEC CSM is identified as the listed and unlisted mammals, birds, and wetland species known to be present at PTA and the Former Operational Areas MRS and based on the MRS physical setting (detailed in Section 3) are reasonably anticipated to be present on either a permanent or transient basis. The majority of the MRS is undeveloped and consists of deciduous forests, ponds, streams and wetlands. Several sensitive species are known to inhabit the Former Operational Areas MRS, including the veery (Catharus Fuscescens), barred owl (Strix varia), and American woodcock (Scolopax minor). A habitat with at least one occurrence of a state-listed threatened species is present at the MRS, according to the NJDEP i Map Landscape Project layer.

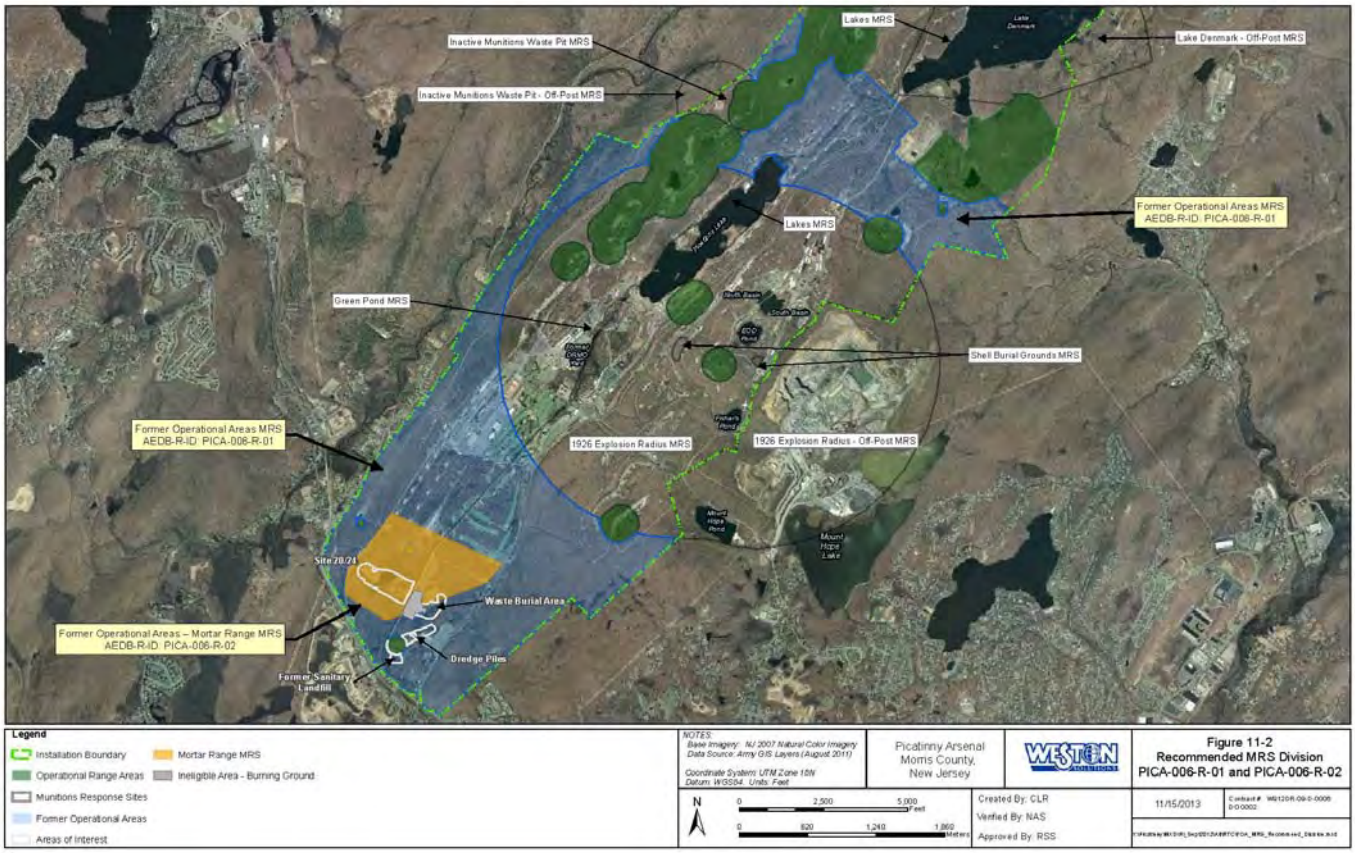

Table 1

EHE Module: Munitions Type Data Element Table

DIRECTIONS: Below are 11 classifications of munitions and their descriptions. Circle the scores that correspond with **all** the munitions types known or suspected to be present at the MRS.

Note: The terms *practice munitions, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Sensitive	◆ UXO that are considered most likely to function upon any interaction with exposed persons (e.g., submunitions, 40mm high-explosive [HE] grenades, white phosphorus [WP] munitions, high-explosive antitank [HEAT] munitions, and practice munitions with sensitive fuzes, but excluding all other practice munitions). ◆ Hand grenades containing energetic filler. ◆ Bulk primary explosives, or mixtures of these with environmental media, such that the mixture poses an explosive hazard.	**30**
High explosive (used or damaged)	◆ UXO containing a high-explosive filler (e.g., RDX, Composition B), that are not considered "sensitive." ◆ DMM containing a high-explosive filler that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	**25**
Pyrotechnic (used or damaged)	◆ UXO containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades). ◆ DMM containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades) that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	20
High explosive (unused)	◆ DMM containing a high-explosive filler that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	**15**
Propellant	◆ UXO containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor) that are: ▪ Damaged by burning or detonation ▪ Deteriorated to the point of instability.	15
Bulk secondary high explosives, pyrotechnics, or propellant	◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM that are bulk secondary high explosives, pyrotechnic compositions, or propellant (not contained in a munitions), or mixtures of these with environmental media such that the mixture poses an explosive hazard.	**10**
Pyrotechnic (not used or damaged)	◆ DMM containing a pyrotechnic filler (i.e., red phosphorus), other than white phosphorus filler, that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	10
Practice	◆ UXO that are practice munitions that are not associated with a sensitive fuze. ◆ DMM that are practice munitions that are not associated with a sensitive fuze and that have not: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	**5**
Riot control	◆ UXO or DMM containing a riot control agent filler (e.g., tear gas).	3
Small arms	◆ Used munitions or DMM that are categorized as small arms ammunition. (Physical evidence or historical evidence that no other types of munitions [e.g., grenades, subcaliber training rockets, demolition charges] were used or are present on the MRS is required for selection of this category.)	2
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	0
MUNITIONS TYPE	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**30**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Munitions Type*** classifications in the space provided.

MEC found at this MRS during the MMRP RI include the following (Section 6.5 MMRP RI Report):

High Explosives (HE): 40mm and 60mm

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Table 1

EHE Module: Munitions Type Data Element Table

DIRECTIONS: Below are 11 classifications of munitions and their descriptions. Circle the scores that correspond with **all** the munitions types known or suspected to be present at the MRS.

Note: The terms *practice munitions, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
High Explosive Anti-Tank (HEAT): Grenade rifle and fuze, 3.5" HEAT Cones Practice: 81mm mortar, M50 60mm mortar, 20mm projectile, 4.2" mortar Submunitions: M32/38/40 Blu 26b, M42 White Phosphorous: M302 60mm And Various MD: 60mm mortar, 81mm M374 body, wax filled, 155 mm powder can, 22mm subcaliber, 30mm projectile, 37mm casing and projectile, 40mm smoke canister, 40mm casing, and projectile, 40mm yellow smoke parachute, 60 mm mortar fin and tail boom, 7" hand grenade, 75mm, 81mm spacer and tail boom, BLU 36 striker plate, BLU-26/36 sleeve fragment, booster cup, burster tube, detonators, miscellaneous flares and flash tubes, various fuzes, smoke canisters, M1 clip, M51 booster, and part of an F2 Mortar Furthermore, according to information from PTA's safety office, MEC found at this MRS in the past have included: an 8-inch illumination Projectile; small arms – types not provided; and various MD. Sensitive was selected due to the presence of ordnance that contains high explosive fillers that have the potential to be unstable and contain sensitive fuzes, as well as the discovery of a white phosphorus mortar during the MMRP RI.		

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Table 2

EHE Module: Source of Hazard Data Element Table

DIRECTIONS: Below are 11 classifications describing sources of explosive hazards. Circle the scores that correspond with **all** the sources of explosive hazards known or suspected to be present at the MRS.

Note: The terms *former range, practice munitions, small arms range, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Former range	◆ The MRS is a former military range where munitions (including practice munitions with sensitive fuzes) have been used. Such areas include impact or target areas and associated buffer and safety zones.	**10**
Former munitions treatment (i.e., OB/OD) unit	◆ The MRS is a location where UXO or DMM (e.g., munitions, bulk explosives, bulk pyrotechnic, or bulk propellants) were burned or detonated for the purpose of treatment prior to disposal.	8
Former practice munitions range	◆ The MRS is a former military range on which only practice munitions without sensitive fuzes were used.	6
Former maneuver area	◆ The MRS is a former maneuver area where no munitions other than flares, simulators, smokes, and blanks were used. There must be evidence that no other munitions were used at the location to place an MRS into this category.	5
Former burial pit or other disposal area	◆ The MRS is a location where DMM were buried or disposed of (e.g., disposed of into a water body) without prior thermal treatment.	**5**
Former industrial operating facilities	◆ The MRS is a location that is a former munitions maintenance, manufacturing, or demilitarization facility.	4
Former firing points	◆ The MRS is a firing point, where the firing point is delineated as an MRS separate from the rest of a former military range.	**4**
Former missile or air defense artillery emplacements	◆ The MRS is a former missile defense or air defense artillery (ADA) emplacement not associated with a military range.	2
Former storage or transfer points	◆ The MRS is a location where munitions were stored or handled for transfer between different modes of transportation (e.g., rail to truck, truck to weapon system).	2
Former small arms range	◆ The MRS is a former military range where only small arms ammunition was used. (There must be evidence that no other types of munitions [e.g., grenades] were used or are present to place an MRS into this category.)	1
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that no UXO or DMM are present, or there is historical evidence indicating that no UXO or DMM are present.	0
SOURCE OF HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**10**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Source of Hazard*** classifications in the space provided.

During an interview conducted post-RI field activities, a mortar range was identified in the southern portion of the Former Operational Areas MRS. The mortar range was discovered to have three separate firing points and a target area near the safe haven in Site 20/24. The munitions tested at the range consisted of 60mm and 81mm mortars with 120mm training rounds being fired from one of the firing points near the present day skeet range.

Within the center of the MRS is the miscellaneous waste and debris disposal area, known as Site 20/24, covers approximately 28 acres in the southwestern portion of PTA. Site 20/24 was used for munitions disposal and pyrotechnic testing. During a 2002 investigation, blocks of high explosives, flare bodies, 75mm and 155mm projectiles, and boosters and tailpieces from mortars were found at this site. In 2003, approximately three acres of Site 20/24 was capped with a two-foot soil cover under the IRP-related Record of Decision (ROD) (*Site 20/24 Record of Decision*, November 2001).

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Table 3

EHE Module: Location of Munitions Data Element Table

DIRECTIONS: Below are eight classifications of munitions locations and their descriptions. Circle the scores that correspond with **all** the locations where munitions are known or suspected to be present at the MRS.

Note: The terms *confirmed, surface, subsurface, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Confirmed surface	◆ Physical evidence indicates that there are UXO or DMM on the surface of the MRS. ◆ Historical evidence (i.e., a confirmed report such as an explosive ordnance disposal [EOD], police, or fire department report that an incident or accident that involved UXO or DMM occurred) indicates there are UXO or DMM on the surface of the MRS.	**25**
Confirmed subsurface, active	◆ Physical evidence indicates the presence of UXO or DMM in the subsurface of the MRS, and the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose UXO or DMM. ◆ Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS and the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose UXO or DMM.	**20**
Confirmed subsurface, stable	◆ Physical evidence indicates the presence of UXO or DMM in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed. ◆ Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed.	15
Suspected (physical evidence)	◆ There is physical evidence (e.g., munitions debris such as fragments, penetrators, projectiles, shell casings, links, fins), other than the documented presence of UXO or DMM, indicating that UXO or DMM may be present at the MRS.	10
Suspected (historical evidence)	◆ There is historical evidence indicating that UXO or DMM may be present at the MRS.	5
Subsurface, physical constraint	◆ There is physical or historical evidence indicating that UXO or DMM may be present in the subsurface, but there is a physical constraint (e.g., pavement, water depth over 120 feet) preventing direct access to the UXO or DMM.	2
Small arms (regardless of location)	◆ The presence of small arms ammunition is confirmed or suspected, regardless of other factors such as geological stability. (There must be evidence that no other types of munitions [e.g., grenades] were used or are present at the MRS to place an MRS into this category.)	1
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	0
LOCATION OF MUNITIONS	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 25).	**25**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Location of Munitions*** classifications in the space provided.

During the MMRP RI, MEC were found at this MRS are depths ranging from the ground surface to 18 inches bgs. It is possible for natural processes to result in the movement, relocation, or unearthing of MEC. The topography of the MRS has low-lying wetlands with a pond and streams. The composition of the soils varies across the MRS, with some areas (sands and muck) prone to frost heave. The MEC was identified above the frost line (3 feet) and the soils contained within the area range from muck to sandy loams and are moderately susceptible to frost heave. Therefore, surface interactions such as wet/dry erosion and frost heave are likely to impact source material.

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Table 4

EHE Module: Ease of Access Data Element Table

DIRECTIONS: Below are four classifications of barrier types that can surround an MRS and their descriptions. The barrier type is directly related to the ease of public access to the MRS. Circle the score that corresponds with the ease of access to the MRS.

Note: The term *barrier* is defined in Appendix C of the Primer.

Classification	Description	Score
No barrier	◆ There is no barrier preventing access to any part of the MRS (i.e., all parts of the MRS are accessible).	**10**
Barrier to MRS access is incomplete	◆ There is a barrier preventing access to parts of the MRS, but not the entire MRS.	8
Barrier to MRS access is complete but not monitored	◆ There is a barrier preventing access to all parts of the MRS, but there is no surveillance (e.g., by a guard) to ensure that the barrier is effectively preventing access to all parts of the MRS.	5
Barrier to MRS access is complete and monitored	◆ There is a barrier preventing access to all parts of the MRS, and there is active, continual surveillance (e.g., by a guard, video monitoring) to ensure that the barrier is effectively preventing access to all parts of the MRS.	0
EASE OF ACCESS	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**10**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ease of Access*** classification in the space provided.

Access to the Former Operational Areas – Mortar Range MRS, is not restricted once on the installation. (Section 6.5 MMRP RI Report).

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Table 5

EHE Module: Status of Property Data Element Table

DIRECTIONS: Below are three classifications of the status of a property within the Department of Defense (DoD) and their descriptions. Circle the score that corresponds with the status of property at the MRS.

Classification	Description	Score
Non-DoD control	◆ The MRS is at a location that is no longer owned by, leased to, or otherwise possessed or used by DoD. Examples are privately owned land or water bodies; land or water bodies owned or controlled by state, tribal, or local governments; and land or water bodies managed by other federal agencies. ◆ The MRS is at a location that is owned by DoD, but that DoD has leased to another entity and for which DoD does not control access 24 hours per day.	5
Scheduled for transfer from DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD, and DoD plans to transfer that land or water body to the control of another entity (e.g., a state, tribal, or local government; a private party; another federal agency) within 3 years from the date the Protocol is applied.	3
DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD. With respect to property that is leased or otherwise possessed, DoD must control access to the MRS 24 hours per day, every day of the calendar year.	**0**
STATUS OF PROPERTY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Status of Property*** classification in the space provided.

This MRS is located on land owned by DoD; therefore, DoD control was selected (Section 6.5 MMRP RI Report).

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Table 6

EHE Module: Population Density Data Element Table

DIRECTIONS: Below are three classifications for population density and their descriptions. Determine the population density per square mile that most closely corresponds with the population of the MRS, including the area within a two-mile radius of the MRS's perimeter. Circle the most appropriate score.

Note: Use the U.S. Census Bureau tract data available to capture the **highest** population density within a two-mile radius of the perimeter of the MRS.

Classification	Description	Score
> 500 persons per square mile	◆ There are more than 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	5
100–500 persons per square mile	◆ There are 100 to 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	**3**
< 100 persons per square mile	◆ There are fewer than 100 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	1
POPULATION DENSITY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**3**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Density*** classification in the space provided.

According to the census bureau website, in the 2000 census there were 148 people per square mile in the census tract associated with that portion of Rockaway Township that falls within a 2-mile radius of this MRS' perimeter and 310 people per square mile in the census tract associated with that portion of Jefferson Township that falls within a 2-mile radius of this MRS' perimeter (www.census.gov).

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Table 7

EHE Module: Population Near Hazard Data Element Table

DIRECTIONS: Below are six classifications describing the number of inhabited structures near the MRS. The number of inhabited buildings relates to the potential population near the MRS. Determine the number of inhabited structures within two miles of the MRS boundary and circle the score that corresponds with the number of inhabited structures.

Note: The term *inhabited structures* is defined in Appendix C of the Primer.

Classification	Description	Score
26 or more inhabited structures	◆ There are 26 or more inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	**5**
16 to 25 inhabited structures	◆ There are 16 to 25 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	4
11 to 15 inhabited structures	◆ There are 11 to 15 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	3
6 to 10 inhabited structures	◆ There are 6 to 10 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	2
1 to 5 inhabited structures	◆ There are 1 to 5 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	1
0 inhabited structures	◆ There are no inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	0
POPULATION NEAR HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Near Hazard*** classification in the space provided.

While the majority of this MRS is undeveloped, it contains several buildings used for various purposes and several hundred buildings are present within a 2 miles radius (Section 6.5 MMRP RI Report).

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Table 8

EHE Module: Types of Activities/Structures Data Element Table

DIRECTIONS: Below are five classifications of activities and/or inhabited structures and their descriptions. Review the types of activities that occur and/or structures that are present within two miles of the MRS and circle the scores that correspond with **all** the activities/structure classifications at the MRS.

Note: The term *inhabited structure* is defined in Appendix C of the Primer.

Classification	Description	Score
Residential, educational, commercial, or subsistence	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with any of the following purposes: residential, educational, child care, critical assets (e.g., hospitals, fire and rescue, police stations, dams), hotels, commercial, shopping centers, playgrounds, community gathering areas, religious sites, or sites used for subsistence hunting, fishing, and gathering.	**5**
Parks and recreational areas	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with parks, nature preserves, or other recreational uses.	**4**
Agricultural, forestry	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with agriculture or forestry.	3
Industrial or warehousing	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with industrial activities or warehousing.	**2**
No known or recurring activities	◆ There are no known or recurring activities occurring up to two miles from the MRS's boundary or within the MRS's boundary.	1
TYPES OF ACTIVITIES/STRUCTURES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Types of Activities/Structures*** classifications in the space provided.

Within the boundary of this MRS and within two miles of the MRS boundary are hundreds of buildings used for various purposes, including manufacturing, storage, testing, R&D, administration, and housing. The MRS also contains parking lots, recreational areas, and undeveloped property (Section 6.5 MMRP RI Report).

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Table 9

EHE Module: Ecological and/or Cultural Resources Data Element Table

DIRECTIONS: Below are four classifications of ecological and/or cultural resources and their descriptions. Review the types of resources present and circle the score that corresponds with the ecological and/or cultural resources present on the MRS.

Note: The terms *ecological resources* and *cultural resources* are defined in Appendix C of the Primer.

Classification	Description	Score
Ecological and cultural resources present	◆ There are both ecological and cultural resources present on the MRS.	5
Ecological resources present	◆ There are ecological resources present on the MRS.	**3**
Cultural resources present	◆ There are cultural resources present on the MRS.	3
No ecological or cultural resources present	◆ There are no ecological resources or cultural resources present on the MRS.	0
ECOLOGICAL AND/OR CULTURAL RESOURCES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ecological and/or Cultural Resources*** classification in the space provided.

According to NJDEP's I-Map Landscape Project layer, this MRS contains habitat with at least one occurrence of a state threatened species. The PTA Administration and Research District in downtown PTA has been identified by the NJ Historic Preservation office (NJHPO) as a cultural resource (Section 6.5 MMRP RI Report).

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Table 10
Determining the EHE Module Rating

DIRECTIONS:

1. From Tables 1–9, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **EHE Module Total** box below.
4. Circle the appropriate range for the **EHE Module Total** below.
5. Circle the **EHE Module Rating** that corresponds to the range selected and record this value in the **EHE Module Rating** box found at the bottom of the table.

Note:
An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
Explosive Hazard Factor Data Elements			
Munitions Type	Table 1	**30**	**40**
Source of Hazard	Table 2	**10**	
Accessibility Factor Data Elements			
Location of Munitions	Table 3	**25**	**35**
Ease of Access	Table 4	**10**	
Status of Property	Table 5	**0**	
Receptor Factor Data Elements			
Population Density	Table 6	**3**	**16**
Population Near Hazard	Table 7	**5**	
Types of Activities/Structures	Table 8	**5**	
Ecological and/or Cultural Resources	Table 9	**3**	
EHE MODULE TOTAL			**91**

EHE Module Total	EHE Module Rating
92 to 100	A
82 to 91	**B**
71 to 81	C
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected Explosive Hazard
EHE MODULE RATING	**B**

Table 11

CHE Module: CWM Configuration Data Element Table

DIRECTIONS: Below are seven classifications of CWM configuration and their descriptions. Circle the scores that correspond with **all** the CWM configurations known or suspected to be present at the MRS.

Note: The terms *CWM/UXO, CWM/DMM, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
CWM, that are either UXO, or explosively configured damaged DMM	The CWM known or suspected of being present at the MRS are: ◆ CWM that are UXO (i.e., CWM/UXO) ◆ Explosively configured CWM that are DMM (i.e., CWM/DMM) that have been damaged.	30
CWM mixed with UXO	◆ The CWM known or suspected of being present at the MRS are undamaged CWM/DMM or CWM not configured as a munition that are commingled with conventional munitions that are UXO.	25
CWM, explosive configuration that are undamaged DMM	◆ The CWM known or suspected of being present at the MRS are explosively configured CWM/DMM that have not been damaged.	20
CWM/DMM, not explosively configured or CWM, bulk container	The CWM known or suspected of being present at the MRS are: ◆ Nonexplosively configured CWM/DMM either damaged or undamaged ◆ Bulk CWM (e.g., ton container).	15
CAIS K941 and CAIS K942	◆ The CWM/DMM known or suspected of being present at the MRS are CAIS K941-toxic gas set M-1 or CAIS K942-toxic gas set M-2/E11.	12
CAIS (chemical agent identification sets)	◆ CAIS, other than CAIS K941 and K942, are known or suspected of being present at the MRS.	10
Evidence of no CWM	◆ Following investigation, the physical evidence indicates that CWM are not present at the MRS, or the historical evidence indicates that CWM are not present at the MRS.	**0**
CWM CONFIGURATION	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the *CWM Configuration* classifications in the space provided.

No known or suspected CWM hazard has been reported at the Former Operational Areas MRS. In addition, there is no evidence of CWM use throughout PTA's history (MMRP SI Report Section 2).

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Tables 12-19

No known or suspected CWM hazard is expected at this site. Therefore, Tables 12 through 19 have been intentionally omitted according to Active Army Guidance.

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Table 20
Determining the CHE Module Rating

DIRECTIONS:

1. From Tables 11–19, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **CHE Module Total** box below.
4. Circle the appropriate range for the **CHE Module Total** below.
5. Circle the **CHE Module Rating** that corresponds to the range selected and record this value in the **CHE Module Rating** box found at the bottom of the table.

Note:
An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
CWM Hazard Factor Data Elements			
CWM Configuration	Table 11	0	0
Sources of CWM	Table 12	-	
Accessibility Factor Data Elements			
Location of CWM	Table 13	-	-
Ease of Access	Table 14	-	
Status of Property	Table 15	-	
Receptor Factor Data Elements			
Population Density	Table 16	-	-
Population Near Hazard	Table 17	-	
Types of Activities/Structures	Table 18	-	
Ecological and/or Cultural Resources	Table 19	-	
CHE MODULE TOTAL			0

CHE Module Total	CHE Module Rating
92 to 100	A
82 to 91	B
71 to 81	C
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected CWM Hazard
CHE MODULE RATING	**No Known or Suspected CWM Hazard**

Table 21

HHE Module: Groundwater Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's groundwater and their comparison values (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant ratios together, including any additional groundwater contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the groundwater, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No groundwater samples were collected from this MRS under the MMRP RI. In addition, groundwater throughout the installation are being addressed under the IRP and will not be included in the Active Army MMRP Program (Installation Action Plan, 2011).			

CHF Scale	CHF Value	Sum The Ratios	
CHF > 100	H (High)	$CHF = \Sigma \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	M (Medium)		
2 > CHF	L (Low)		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the groundwater is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the groundwater to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater receptors at the MRS.

Classification	Description	Value
Identified	There is a threatened water supply well downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer).	H
Potential	There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer).	M
Limited	There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only).	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Groundwater MC Hazard ☐

Table 22

HHE Module: Surface Water – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value.** Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF,** use the **CHF Scale** to determine and record the **CHF Value.** If there is no known or suspected MC hazard with human endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No surface water data were collected under the MMRP RI for this MRS.			
CHF Scale	**CHF Value**	**Sum The Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	
	No Known or Suspected Surface Water (Human Endpoint) MC Hazard	☐

Table 23

HHE Module: Sediment – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with human endpoints present in the sediment, select the box at the bottom of the table.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
No sediment data were collected under the MMRP RI investigation for this MRS.			
CHF Scale	**CHF Value**	**Sum The Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Sediment (Human Endpoint) MC Hazard ☐

Table 24

HHE Module: Surface Water – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No surface water data were collected under the MMRP RI investigation for this MRS.			
CHF Scale	**CHF Value**	**Sum the Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Surface Water (Ecological Endpoint) MC Hazard ☐

Table 25

HHE Module: Sediment – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the sediment, select the box at the bottom of the table.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
No sediment data were collected under the MMRP RI investigation for this MRS.			
CHF Scale	**CHF Value**	**Sum the Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	
	No Known or Suspected Sediment (Ecological Endpoint) MC Hazard	☐

Table 26

HHE Module: Surface Soil Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface soil and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface soil contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the surface soil, select the box at the bottom of the table.

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Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratio
The risk assessment for the surrounding Former Operational Areas MRS determined there is no known or suspected MC hazard present in the surface soil.			
CHF Scale	**CHF Value**	**Sum the Ratios**	13.27
CHF > 100	**H (High)**	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		M

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface soil is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface soil has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface soil to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	M

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface soil to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface soil to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface soil to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	M

No Known or Suspected Surface Soil MC Hazard ☑

Table 27

HHE Module: Supplemental Contaminant Hazard Factor Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Only use this table if there are more than five contaminants in any given medium present at the MRS. This is a supplemental table designed to hold information about contaminants that do not fit in the previous tables. Indicate the **media** in which these contaminants are present. Then record all **contaminants**, their **maximum concentrations** and their **comparison values** (from Appendix B of the Primer) in the table below. Calculate and record the **ratio** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** for each medium on the appropriate media-specific tables.

Note: Do not add ratios from different media.

Media	Contaminant	Maximum Concentration	Comparison Value	Ratio
Soil	Antimony	4.5	31	0.15
Soil	Cadmium	19	39	0.49
Soil	Copper	130	3100	0.04
Soil	Lead	250	400	0.63
Soil	Zinc	990	23000	0.04

All values given in mg/kg

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Table 28

Determining the HHE Module Rating

DIRECTIONS:

1. Record the letter values (H, M, L) for the **Contaminant Hazard**, **Migration Pathway**, and **Receptor Factors** for the media (from Tables 21–26) in the corresponding boxes below.
2. Record the media's three-letter combinations in the **Three-Letter Combination** boxes below (three-letter combinations are arranged from Hs to Ms to Ls).
3. Using the **HHE Ratings** provided below, determine each media's rating (A–G) and record the letter in the corresponding **Media Rating** box below.

Media (Source)	**Contaminant Hazard Factor Value**	**Migratory Pathway Factor Value**	**Receptor Factor Value**		Three-Letter Combination (Hs-Ms-Ls)		Media Rating (A-G)
Groundwater (Table 21)	-	-	-		-		-
Surface Water/Human Endpoint (Table 22)	-	-	-		-		-
Sediment/Human Endpoint (Table 23)	-	-	-		-		-
Surface Water/Ecological Endpoint (Table 24)	-	-	-		-		-
Sediment/Ecological Endpoint (Table 25)	-	-	-		-		-
Surface Soil (Table 26)	-	-	-		-		-

DIRECTIONS (cont.):

4. Select the single highest Media Rating (A is highest; G is lowest) and enter the letter in the **HHE Module Rating** box.

Note:

An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more media, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

HHE MODULE RATING	-

HHE Ratings (for reference only)

Combination	**Rating**
HHH	A
HHM	B
HHL	C
HMM	C
HML	D
MMM	D
HLL	E
MML	E
MLL	F
LLL	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected MC Hazard

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Table 29
MRS Priority

DIRECTIONS: In the chart below, circle the letter **rating** for each module recorded in Table 10 (EHE), Table 20 (CHE), and Table 28 (HHE). Circle the corresponding numerical **priority** for each module. If information to determine the module rating is not available, choose the appropriate alternative module rating. The MRS Priority is the single highest priority; record this relative priority in the **MRS Priority or Alternative MRS Rating** at the bottom of the table.

Note: An MRS assigned Priority 1 has the highest relative priority; an MRS assigned Priority 8 has the lowest relative priority. Only an MRS with CWM known or suspected to be present can be assigned Priority 1; an MRS that has CWM known or suspected to be present cannot be assigned Priority 8.

EHE Rating	Priority	CHE Rating	Priority	HHE Rating	Priority
		A	**1**		
A	**2**	**B**	**2**	**A**	**2**
B	**3**	**C**	**3**	B	3
C	**4**	**D**	**4**	**C**	**4**
D	**5**	**E**	**5**	D	5
E	**6**	**F**	**6**	**E**	**6**
F	**7**	**G**	**7**	**F**	**7**
G	**8**			**G**	**8**
Evaluation Pending		Evaluation Pending		Evaluation Pending	
No Longer Required		No Longer Required		No Longer Required	
No Known or Suspected Explosive Hazard		**No Known or Suspected CWM Hazard**		**No Known or Suspected MC Hazard**	
MRS PRIORITY or ALTERNATIVE MRS RATING				**3**	

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LAKES MRS

Table A
MRS Background Information

DIRECTIONS: Record the background information below for the Munitions Response Site (MRS) to be evaluated. Much of this information is available from Service and DoD databases. If the MRS is located on a FUDS property, the suitable FUDS property information should be substituted. In the **MRS Summary**, briefly describe the UXO, DMM, or MC that are known or suspected to be present, the exposure setting (the MRS's physical environment), any other incidental nonmunitions-related contaminants (e.g., benzene, trichloroethylene) found at the MRS, and any potentially exposed human and ecological receptors. If possible, include a map of the MRS.

Munitions Response Site Name/AEDB-R #: Lakes MRS (PICA-008-R-01)

Component: Army

Installation/Property Name: Picatinny Arsenal, NJ

Location (City, County, State): Morris County, New Jersey

Site Name/Project Name (Project No.): Lakes MRS / Picatinny Arsenal RI (038160030000)

Date Information Entered/Updated: November 2013

Preparer's Name/Organization/Phone: Layne Young, ARCADIS-US, Inc (410.332.4806)

Point of Contact (Name/Phone): Nancy Flaherty (410.779.2796)

Project Phase (check only one):

❑ PA	❑ SI	✠ RI	❑ FS	❑ RD
❑ RA-C	❑ RIP	❑ RA-O	❑ RC	❑ LTM

Media Evaluated (check all that apply):

❑ Groundwater	❑ Sediment (human receptor)
❑ Surface soil	❑ Surface Water (ecological receptor)
❑ Sediment (ecological receptor)	❑ Surface Water (human receptor)

MRS Summary:

MRS Description: Describe the munitions-related activities that occurred at the installation, the dates of operation, and the Unexploded Ordnance (UXO), Discarded Military Munitions (DMM), or Munitions Constituents (MC) known or suspected to be present.

There are two large lakes on PTA, Lake Denmark and Picatinny Lake, which were historically used as ranges. This Munitions Response Site (MRS) includes the lakes as well as the on-post land portions covered by the surface danger zones (SDZs) associated with the ranges, and covers 741 acres. Surrounding both lakes are many active, inactive, and demolished buildings. Some of these buildings are used as chemical, betatron, and x-ray laboratories or are used for munitions R&D, production, storage, and steam and electric power generation (*Final Lakes Feasibility Study Site 54/PICA 015, Site 53/PICA 057, and Site 103/PICA 164*, April 2012).

The Lake Denmark portion of the MRS covers approximately 616 acres (water and land areas combined), and is located on the northeastern portion of the installation. Lake Denmark is a man-made lake with an approximate surface area of 263 acres (*i.e.*, water portion only) and an average depth of 6.5 feet. The lake is not used as a source of drinking water, but is used for recreational boating and fishing. Swimming in Lake Denmark is banned and fish consumption advisories are in effect (*Final Lakes Feasibility Study Site 54/PICA 015, Site 53/PICA 057, and Site 103/PICA 164*, April 2012).

Lake Denmark was previously used for experimental testing of 60mm, 81mm, and 4.2-inch mortars. These ranges shared a single firing point on the southern end of the lake, but had several lines of fire with the impact areas located on the northern end of the lake. A 20mm cannon range was also present and the firing point was located on the southern portion of the lake, with an impact area along the western shoreline (*Final Lakes Feasibility Study Site 54/PICA 015, Site 53/PICA 057, and Site 103/PICA 164*, April 2012; *Final Historical Records Review, Picatinny Arsenal*, November 2006). Additionally during an interview conducted on 30 April, 2013

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(included in Appendix B) a Sagger Missile Firing point was identified for the Lake Denmark Range (Figure 1-12). During the interview it was detailed that the missiles were designed to float once the motors were expended and the missiles were recovered using boats after each firing. Additionally two observations points, one of each side of Lake Denmark, from which installation personnel would observe/view the missile and mortar firing.

The Picatinny Lake portion of the MRS covers approximately 125 acres (water and land areas combined) and is located in the central portion of the installation. Picatinny Lake is a man-made lake with an approximate surface area of 108 acres (*i.e.,* water portion only), a flat, featureless bottom, and a maximum depth of 20 feet, with more shallow depths at the northern end. Picatinny Lake is used for recreational boating and fishing; however, swimming is banned and fish consumption advisories are in effect. Picatinny Lake is also used as a source of non-potable water for production purposes and fire fighting (*Final Lakes Feasibility Study Site 54/PICA 015, Site 53/PICA 057, and Site 103/PICA 164*, April 2012).

A three-inch Barbette gun firing range was previously located on the southeast shore of Picatinny Lake with the impact area located across the lake near Buildings (Bldg.) 810 and 824. The lake was also used for the underwater storage of smokeless powder and explosives. There are two islands within Picatinny Lake; Flare Island, which is a man-made peninsula constructed of coal slag, and Picnic Island, located in the southern portion of the lake. There is no historical evidence of former munitions testing conducted on Picnic Island; however, Flare Island was formerly used to test flares and pyrotechnics (*Final Historical Records Review, Picatinny Arsenal*, November 2006).

Munitions and explosives of concern (MEC) found during the MMRP RI include a 37mm smoke, and a supplemental charge for a 155mm projectile, as well as various munitions debris including a practice 152mm projectile, a 60mm mortar and small arms including casings and shotgun primers. From December 2012 through January 2013, two 60mm Mortars (one was Practice and the other HE) were identified by REMTEC, one on the western side of Lake Denmark and one on the eastern side of the lake, outside the MRS but near the northern MRS boundary, as work was being conducted along the PSE&G electrical tower right-of-way.

<u>MC Summary:</u>

MC for the water portion of this MRS, along with the land portion of Picatinny Lake, is being addressed under the installation restoration program (IRP). Lake Denmark is associated with IRP Site PICA-015 and Picatinny Lake is associated with IRP Site PICA-057. The production buildings around Picatinny Lake are associated with IRP Site PICA-135. The feasibility (FS) for both water sites was submitted in October 2009. The remedial investigation/feasibility study (RI/FS) for the land portion of Picatinny Lake was submitted in December 2009.

For the military munitions response program (MMRP) RI, biased MC sampling was proposed for land portion of Lake Denmark, only, since MC for the rest of this MRS is covered under the IRP. However, biased MC sampling was not required under the MMRP RI since field observation of the MEC found did not indicate any potential releases. Therefore, exposure pathways for MC are incomplete.

<u>Description of Receptors (Human and Ecological):</u>

Lake Denmark is a man-made lake that covers approximately 263 acres. Land areas associated with Lake Denmark's SDZ include undeveloped wetlands, a softball field, an unnamed pond, and forested land immediately surrounding the lake. Picatinny Lake is also a man-made lake that covers approximately 125 acres and is located in the central portion of PTA. Land areas associated with Picatinny Lake's SDZ include buildings located along the shoreline.

Both lakes are used for recreational boating and fishing; however, swimming is banned and fish consumption advisories are in effect. No wading, swimming, or scuba diving is permitted. Neither lake is used for potable water; Picatinny Lake is used as a source of non-potable water for production purposes and fire fighting.

The northern ends of both Lake Denmark and Picatinny Lake are dominated by scrub/shrub wetland with smooth Adler (*Alnus serrulata*) and swamp azalea (*Rhodendron viscosum*). Ecological receptors in both lakes include fish, birds, including waterfowl, wading birds, piscivorous birds, songbirds, and raptors, reptiles, amphibians, and mammals. Site-specific beneficial resources include the following:

- Scrub/shrub wetlands north of both lakes
- Undeveloped, forested areas surrounding Lake Denmark
- Game species including fish and waterfowl
- Gravel Dam Cove, which lies southeast of Lake Denmark, is a unique pond habitat that supports breeding populations of a rare damselfly

Four state-listed endangered aquatic plant species occur in Lake Denmark including featherfoil (*Hottonia inflate*), Robbin's pondweed (*Potamogeton robbinsii*), small bur (*Sparganium minimum*), and lesser bladderwort (*Utricularia minor*). Gravel Dam Cove is a unique pond habitat that supports breeding populations of the New England bluet, a rare damselfly. In addition, Lake Denmark is located adjacent to Area J, which is believed to be a summer roosting area for the Indiana bat, a federally endangered species (Section 6.6.3 MMRP RI Report).

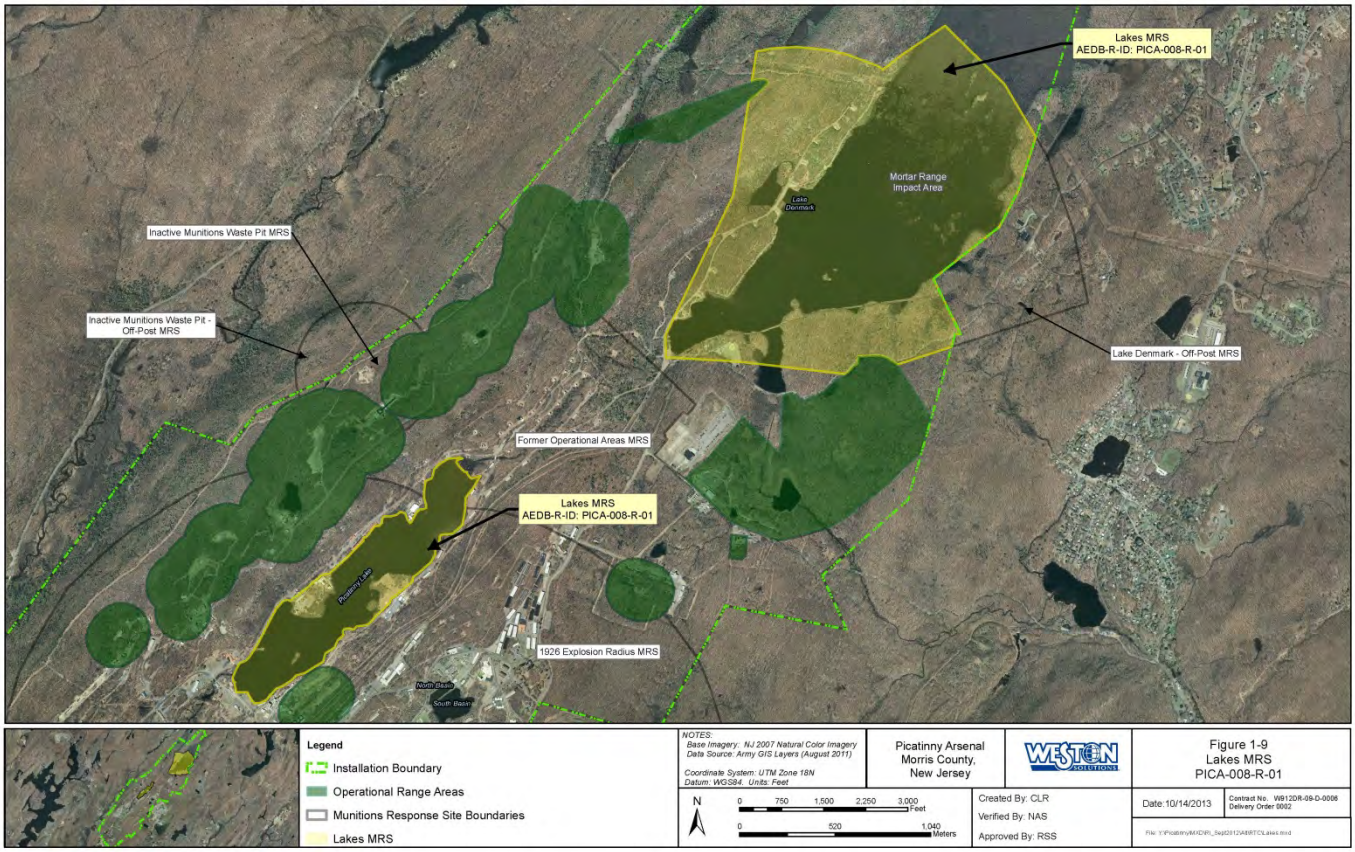
Lakes MRS
AEDB-R-ID: PICA-008-R-01
Mortar Range
Impact Area
Lake
Denmark
Inactive Munitions Waste Pit MRS
Inactive Munitions Waste Pit -
Off-Post MRS
Lake Denmark - Off-Post MRS
Former Operational Areas MRS
Lakes MRS
AEDB-R-ID: PICA-008-R-01
Redburn Lake
1926 Explosion Radius MRS
North Basin
South Basin
Legend
Installation Boundary
Operational Range Areas
Munitions Response Site Boundaries
Lakes MRS
NOTES:
Base Imagery: NJ 2007 Natural Color Imagery
Data Source: Army GIS Layers (August 2011)
Coordinate System: UTM Zone 18N
Datum: WGS84. Units: Feet
N
0 750 1,500 2,250 3,000 Feet
0 520 1,040 Meters
Picatinny Arsenal
Morris County,
New Jersey
WESTON SOLUTIONS
Figure 1-9
Lakes MRS
PICA-008-R-01
Created By: CLR
Verified By: NAS
Approved By: RSS
Date: 10/14/2013
Contract No. W912DR-09-D-0006
Delivery Order 0002

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Table 1

EHE Module: Munitions Type Data Element Table

DIRECTIONS: Below are 11 classifications of munitions and their descriptions. Circle the scores that correspond with **all** the munitions types known or suspected to be present at the MRS.

Note: The terms *practice munitions, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Sensitive	◆ UXO that are considered most likely to function upon any interaction with exposed persons (e.g., submunitions, 40mm high-explosive [HE] grenades, white phosphorus [WP] munitions, high-explosive antitank [HEAT] munitions, and practice munitions with sensitive fuzes, but excluding all other practice munitions). ◆ Hand grenades containing energetic filler. ◆ Bulk primary explosives, or mixtures of these with environmental media, such that the mixture poses an explosive hazard.	30
High explosive (used or damaged)	◆ UXO containing a high-explosive filler (e.g., RDX, Composition B), that are not considered "sensitive." ◆ DMM containing a high-explosive filler that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	**25**
Pyrotechnic (used or damaged)	◆ UXO containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades). ◆ DMM containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades) that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	**20**
High explosive (unused)	◆ DMM containing a high-explosive filler that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	15
Propellant	◆ UXO containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor) that are: ▪ Damaged by burning or detonation ▪ Deteriorated to the point of instability.	**15**
Bulk secondary high explosives, pyrotechnics, or propellant	◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM that are bulk secondary high explosives, pyrotechnic compositions, or propellant (not contained in a munitions), or mixtures of these with environmental media such that the mixture poses an explosive hazard.	10
Pyrotechnic (not used or damaged)	◆ DMM containing a pyrotechnic filler (i.e., red phosphorus), other than white phosphorus filler, that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	**10**
Practice	◆ UXO that are practice munitions that are not associated with a sensitive fuze. ◆ DMM that are practice munitions that are not associated with a sensitive fuze and that have not: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	**5**
Riot control	◆ UXO or DMM containing a riot control agent filler (e.g., tear gas).	3
Small arms	◆ Used munitions or DMM that are categorized as small arms ammunition. (Physical evidence or historical evidence that no other types of munitions [e.g., grenades, subcaliber training rockets, demolition charges] were used or are present on the MRS is required for selection of this category.)	2
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	0
MUNITIONS TYPE	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**25**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Munitions Type*** classifications in the space provided.

Lake Denmark was used as a mortar impact area and an experimental munitions testing range. Three ranges, 60-mm, 81-mm, and 4.2-inch inert projectile ranges, were identified. A 20-mm cannon range that fired across Lake Denmark toward an impact area near Bldg. 1221 was also identified. Additionally during an interview conducted on 30 April, 2013 (included in Appendix B) a Sagger Missile Firing point was identified for the Lake Denmark Range (Figure 1-12). During the interview it was detailed that the missiles were

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Table 1

EHE Module: Munitions Type Data Element Table

DIRECTIONS: Below are 11 classifications of munitions and their descriptions. Circle the scores that correspond with **all** the munitions types known or suspected to be present at the MRS.

Note: The terms *practice munitions, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
	designed to float once the motors were expended and the missiles were recovered using boats after each firing. Additionally two observations points, one of each side of Lake Denmark, from which installation personnel would observe/view the missile and mortar firing. It is also believed that MEC were discarded into Lake Denmark following the 1926 explosion of the Lake Denmark Powder Depot. On August 9, 2007, a 60-mm fuzed mortar was discovered near Bldg. 1204 during an archaeological study. This building is located within the safety fan of Lake Denmark (*Final Historical Records Review, Picatinny Arsenal*, November 2006). Picatinny Lake has had several uses, including a range and a testing and storage area. A 3-inch Barbette gun firing range was previously located on the southeast shore of the lake; the impact area was located across the lake near Bldgs. 810 and 824. Flare Island, a man-made island, was formerly used to test flares and pyrotechnics. The lake was also used for the underwater storage of smokeless powder and explosives. In addition, during test pit installation at a building located adjacent to Picatinny Lake MEC, including rocket motor housing sleeves, unattached fins, and base detonating fuzes were found (*Final Historical Records Review, Picatinny Arsenal*, November 2006). MEC found during the MMRP RI include a 37mm smoke, and a supplemental charge for a 155mm projectile, as well as various munitions debris including a practice 152mm projectile, a 60mm mortar and small arms including casings and shotgun primers. High Explosives was selected due to the presence of munitions containing high explosive filler that were either fired or discarded in this MRS (Section 6.6 MMRP RI Report). From December 2012 through January 2013, two 60mm Mortars (one was Practice and the other HE) were identified by REMTEC, one on the western side of Lake Denmark and one on the eastern side of the lake, outside the MRS but near the northern MRS boundary, as work was being conducted along the PSE&G electrical tower right-of-way.	

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Table 2

EHE Module: Source of Hazard Data Element Table

DIRECTIONS: Below are 11 classifications describing sources of explosive hazards. Circle the scores that correspond with **all** the sources of explosive hazards known or suspected to be present at the MRS.

Note: The terms *former range, practice munitions, small arms range, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Former range	◆ The MRS is a former military range where munitions (including practice munitions with sensitive fuzes) have been used. Such areas include impact or target areas and associated buffer and safety zones.	**10**
Former munitions treatment (i.e., OB/OD) unit	◆ The MRS is a location where UXO or DMM (e.g., munitions, bulk explosives, bulk pyrotechnic, or bulk propellants) were burned or detonated for the purpose of treatment prior to disposal.	8
Former practice munitions range	◆ The MRS is a former military range on which only practice munitions without sensitive fuzes were used.	6
Former maneuver area	◆ The MRS is a former maneuver area where no munitions other than flares, simulators, smokes, and blanks were used. There must be evidence that no other munitions were used at the location to place an MRS into this category.	5
Former burial pit or other disposal area	◆ The MRS is a location where DMM were buried or disposed of (e.g., disposed of into a water body) without prior thermal treatment.	5
Former industrial operating facilities	◆ The MRS is a location that is a former munitions maintenance, manufacturing, or demilitarization facility.	4
Former firing points	◆ The MRS is a firing point, where the firing point is delineated as an MRS separate from the rest of a former military range.	4
Former missile or air defense artillery emplacements	◆ The MRS is a former missile defense or air defense artillery (ADA) emplacement not associated with a military range.	2
Former storage or transfer points	◆ The MRS is a location where munitions were stored or handled for transfer between different modes of transportation (e.g., rail to truck, truck to weapon system).	**2**
Former small arms range	◆ The MRS is a former military range where only small arms ammunition was used. (There must be evidence that no other types of munitions [e.g., grenades] were used or are present to place an MRS into this category.)	1
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that no UXO or DMM are present, or there is historical evidence indicating that no UXO or DMM are present.	0
SOURCE OF HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**10**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Source of Hazard*** classifications in the space provided.

Lake Denmark was used as a mortar impact area and an experimental munitions testing range. Three ranges, 60-mm, 81-mm, and 4.2-inch inert mortar ranges, were identified. A 20-mm cannon range that fired across Lake Denmark toward an impact area near Bldg. 1221 was also identified. Picatinny Lake has had several uses, including a range and a testing and storage area. A 3-inch Barbette gun firing range was previously located on the southeast shore of the lake; the impact area was located across the lake near Bldgs. 810 and 824 (*Final Historical Records Review, Picatinny Arsenal*, November 2006). Historical reports document smokeless powder and explosives being stored underwater in the southern portion of the lake between 1910 and 1960 for protection from lightning, spontaneous ignition, and heat (Section 2.7 MMRP RI Report). Additionally during an interview conducted on 30 April, 2013 (included in Appendix B) a Sagger Missile Firing point was identified for the Lake Denmark Range (Figure 1-12). During the interview it was detailed that the missiles were designed to float once the motors were expended and the missiles were recovered using boats

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Table 2

EHE Module: Source of Hazard Data Element Table

DIRECTIONS: Below are 11 classifications describing sources of explosive hazards. Circle the scores that correspond with **all** the sources of explosive hazards known or suspected to be present at the MRS.

Note: The terms *former range, practice munitions, small arms range, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
after each firing. Additionally two observations points, one of each side of Lake Denmark, from which installation personnel would observe/view the missile and mortar firing.		

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Table 3

EHE Module: Location of Munitions Data Element Table

DIRECTIONS: Below are eight classifications of munitions locations and their descriptions. Circle the scores that correspond with **all** the locations where munitions are known or suspected to be present at the MRS.

Note: The terms *confirmed, surface, subsurface, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Confirmed surface	◆ Physical evidence indicates that there are UXO or DMM on the surface of the MRS. ◆ Historical evidence (i.e., a confirmed report such as an explosive ordnance disposal [EOD], police, or fire department report that an incident or accident that involved UXO or DMM occurred) indicates there are UXO or DMM on the surface of the MRS.	**25**
Confirmed subsurface, active	◆ Physical evidence indicates the presence of UXO or DMM in the subsurface of the MRS, and the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose UXO or DMM. ◆ Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS and the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose UXO or DMM.	**20**
Confirmed subsurface, stable	◆ Physical evidence indicates the presence of UXO or DMM in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed. ◆ Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed.	15
Suspected (physical evidence)	◆ There is physical evidence (e.g., munitions debris such as fragments, penetrators, projectiles, shell casings, links, fins), other than the documented presence of UXO or DMM, indicating that UXO or DMM may be present at the MRS.	10
Suspected (historical evidence)	◆ There is historical evidence indicating that UXO or DMM may be present at the MRS.	5
Subsurface, physical constraint	◆ There is physical or historical evidence indicating that UXO or DMM may be present in the subsurface, but there is a physical constraint (e.g., pavement, water depth over 120 feet) preventing direct access to the UXO or DMM.	2
Small arms (regardless of location)	◆ The presence of small arms ammunition is confirmed or suspected, regardless of other factors such as geological stability. (There must be evidence that no other types of munitions [e.g., grenades] were used or are present at the MRS to place an MRS into this category.)	1
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	0
LOCATION OF MUNITIONS	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 25).	**20**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Location of Munitions*** classifications in the space provided.

Based on RI characterization activities at the Lakes MRS, it is possible for natural processes to result in the movement, relocation, or unearthing of the MEC, increasing the chance of exposure by human and ecological receptors. The MEC items recovered at Picatinny Lake were found at 4 inches bgs but the depth of the MEC item identified within the water portion of Picatinny Lake is unknown. The depth of MEC found at Lake Denmark is also unknown because the MEC items were not recovered during RI activities. In 2010 Lake Denmark water levels were drawn down and a surface walk was performed, one MEC item was identified and therefore was identified at/near ground surface. In December 2012 through January 2013 two 60mm Mortars (one was Practice and the other HE) was identified by REMTEC, one on the western side of the lake and one of the eastern side of the lake near the northern MRS boundary, as work was being conducted along the PSE&G electrical tower right-of-way. The recovered MD was found

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Table 3

EHE Module: Location of Munitions Data Element Table

DIRECTIONS: Below are eight classifications of munitions locations and their descriptions. Circle the scores that correspond with **all** the locations where munitions are known or suspected to be present at the MRS.

Note: The terms *confirmed, surface, subsurface, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
	at 0 and 6 inches bgs at Lake Denmark and between 0 and 12 inches bgs at Picatinny Lake. The topography of the Picatinny Lake portion of the Lakes MRS slopes sharply from ridges to the northwest and southeast into the valley floor where the lake is situated. The topography of the Lake Denmark portion of the Lakes MRS is a low-lying valley situated at the base of the southern ridgeline of Copperas Mountain. The western portion of Lake Denmark is steeply sloped. Therefore, surface interactions such as wet/dry erosion and frost heave are likely to impact source material (Section 8.7 MMRP RI Report).	

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Table 4

EHE Module: Ease of Access Data Element Table

DIRECTIONS: Below are four classifications of barrier types that can surround an MRS and their descriptions. The barrier type is directly related to the ease of public access to the MRS. Circle the score that corresponds with the ease of access to the MRS.

Note: The term *barrier* is defined in Appendix C of the Primer.

Classification	Description	Score
No barrier	◆ There is no barrier preventing access to any part of the MRS (i.e., all parts of the MRS are accessible).	10
Barrier to MRS access is incomplete	◆ There is a barrier preventing access to parts of the MRS, but not the entire MRS.	**8**
Barrier to MRS access is complete but not monitored	◆ There is a barrier preventing access to all parts of the MRS, but there is no surveillance (e.g., by a guard) to ensure that the barrier is effectively preventing access to all parts of the MRS.	5
Barrier to MRS access is complete and monitored	◆ There is a barrier preventing access to all parts of the MRS, and there is active, continual surveillance (e.g., by a guard, video monitoring) to ensure that the barrier is effectively preventing access to all parts of the MRS.	0
EASE OF ACCESS	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**8**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ease of Access*** classification in the space provided.

Access to the majority of the Lakes MRS is not restricted once on the installation. Access to portions of the MRS (*i.e.*, the enclosure area) are restricted with a gated fence with a guard (Section 6.6 MMRP RI Report).

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Table 5

EHE Module: Status of Property Data Element Table

DIRECTIONS: Below are three classifications of the status of a property within the Department of Defense (DoD) and their descriptions. Circle the score that corresponds with the status of property at the MRS.

Classification	Description	Score
Non-DoD control	◆ The MRS is at a location that is no longer owned by, leased to, or otherwise possessed or used by DoD. Examples are privately owned land or water bodies; land or water bodies owned or controlled by state, tribal, or local governments; and land or water bodies managed by other federal agencies. ◆ The MRS is at a location that is owned by DoD, but that DoD has leased to another entity and for which DoD does not control access 24 hours per day.	5
Scheduled for transfer from DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD, and DoD plans to transfer that land or water body to the control of another entity (e.g., a state, tribal, or local government; a private party; another federal agency) within 3 years from the date the Protocol is applied.	3
DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD. With respect to property that is leased or otherwise possessed, DoD must control access to the MRS 24 hours per day, every day of the calendar year.	**0**
STATUS OF PROPERTY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Status of Property*** classification in the space provided.

This MRS is located on land owned by DoD; therefore, DoD control was selected (Section 6.6 MMRP RI Report).

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Table 6

EHE Module: Population Density Data Element Table

DIRECTIONS: Below are three classifications for population density and their descriptions. Determine the population density per square mile that most closely corresponds with the population of the MRS, including the area within a two-mile radius of the MRS's perimeter. Circle the most appropriate score.

Note: Use the U.S. Census Bureau tract data available to capture the **highest** population density within a two-mile radius of the perimeter of the MRS.

Classification	Description	Score
> 500 persons per square mile	◆ There are more than 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	5
100–500 persons per square mile	◆ There are 100 to 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	**3**
< 100 persons per square mile	◆ There are fewer than 100 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	1
POPULATION DENSITY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**3**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Density*** classification in the space provided.

According to the census bureau website, in the 2000 census there were 148 people per square mile in the census tract associated with that portion of Rockaway Township that falls within a 2-mile radius of this MRS' perimeter and 310 people per square mile in the census tract associated with that portion of Jefferson Township that falls within a 2-mile radius of this MRS' perimeter (www.census.gov).

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Table 7

EHE Module: Population Near Hazard Data Element Table

DIRECTIONS: Below are six classifications describing the number of inhabited structures near the MRS. The number of inhabited buildings relates to the potential population near the MRS. Determine the number of inhabited structures within two miles of the MRS boundary and circle the score that corresponds with the number of inhabited structures.

Note: The term *inhabited structures* is defined in Appendix C of the Primer.

Classification	Description	Score
26 or more inhabited structures	◆ There are 26 or more inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	**5**
16 to 25 inhabited structures	◆ There are 16 to 25 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	4
11 to 15 inhabited structures	◆ There are 11 to 15 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	3
6 to 10 inhabited structures	◆ There are 6 to 10 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	2
1 to 5 inhabited structures	◆ There are 1 to 5 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	1
0 inhabited structures	◆ There are no inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	0
POPULATION NEAR HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Near Hazard*** classification in the space provided.

Although this MRS is undeveloped, it is located within 2 miles of downtown PTA which contains hundreds of buildings for residential, administrative, training, and maintenance purposes (Section 6.6 MMRP RI Report).

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Table 8

EHE Module: Types of Activities/Structures Data Element Table

DIRECTIONS: Below are five classifications of activities and/or inhabited structures and their descriptions. Review the types of activities that occur and/or structures that are present within two miles of the MRS and circle the scores that correspond with **all** the activities/structure classifications at the MRS.

Note: The term *inhabited structure* is defined in Appendix C of the Primer.

Classification	Description	Score
Residential, educational, commercial, or subsistence	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with any of the following purposes: residential, educational, child care, critical assets (e.g., hospitals, fire and rescue, police stations, dams), hotels, commercial, shopping centers, playgrounds, community gathering areas, religious sites, or sites used for subsistence hunting, fishing, and gathering.	**5**
Parks and recreational areas	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with parks, nature preserves, or other recreational uses.	**4**
Agricultural, forestry	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with agriculture or forestry.	3
Industrial or warehousing	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with industrial activities or warehousing.	**2**
No known or recurring activities	◆ There are no known or recurring activities occurring up to two miles from the MRS's boundary or within the MRS's boundary.	1
TYPES OF ACTIVITIES/STRUCTURES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Types of Activities/Structures*** classifications in the space provided.

Within a two mile radius of this site are residential dwellings, including military housing, a child care center, fire and rescue services, a golf course and other recreational areas on PTA, and industrial buildings (Section 6.6 MMRP RI Report).

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Table 9

EHE Module: Ecological and/or Cultural Resources Data Element Table

DIRECTIONS: Below are four classifications of ecological and/or cultural resources and their descriptions. Review the types of resources present and circle the score that corresponds with the ecological and/or cultural resources present on the MRS.

Note: The terms *ecological resources* and *cultural resources* are defined in Appendix C of the Primer.

Classification	Description	Score
Ecological and cultural resources present	◆ There are both ecological and cultural resources present on the MRS.	**5**
Ecological resources present	◆ There are ecological resources present on the MRS.	3
Cultural resources present	◆ There are cultural resources present on the MRS.	3
No ecological or cultural resources present	◆ There are no ecological resources or cultural resources present on the MRS.	0
ECOLOGICAL AND/OR CULTURAL RESOURCES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ecological and/or Cultural Resources*** classification in the space provided.

Four state-listed endangered aquatic plant species occur in Lake Denmark including featherfoil (*Hottonia inflate*), Robbin's pondweed (*Potamogeton robbinsii*), small bur (*Sparganium minimum*), and lesser bladderwort (*Utricularia minor*). Gravel Dam Cove is a unique pond habitat that supports breeding populations of the New England bluet, a rare damselfly. In addition, Lake Denmark is located adjacent to Area J, which is believed to be a summer roosting area for the Indiana bat, a federally endangered species. The north end of Picatinny Lake contains a culturally sensitive area and the Lake Denmark area contains culturally sensitive areas and prehistoric sites (Section 6.6 MMRP RI Report).

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Table 10
Determining the EHE Module Rating

DIRECTIONS:

1. From Tables 1–9, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **EHE Module Total** box below.
4. Circle the appropriate range for the **EHE Module Total** below.
5. Circle the **EHE Module Rating** that corresponds to the range selected and record this value in the **EHE Module Rating** box found at the bottom of the table.

Note:
An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
Explosive Hazard Factor Data Elements			
Munitions Type	Table 1	**20**	**30**
Source of Hazard	Table 2	**10**	
Accessibility Factor Data Elements			
Location of Munitions	Table 3	**25**	**33**
Ease of Access	Table 4	**8**	
Status of Property	Table 5	**0**	
Receptor Factor Data Elements			
Population Density	Table 6	**3**	**18**
Population Near Hazard	Table 7	**5**	
Types of Activities/Structures	Table 8	**5**	
Ecological and/or Cultural Resources	Table 9	**5**	
EHE MODULE TOTAL			**81**

EHE Module Total	EHE Module Rating
92 to 100	A
82 to 91	B
71 to 81	**C**
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected Explosive Hazard
EHE MODULE RATING	**C**

Table 11

CHE Module: CWM Configuration Data Element Table

DIRECTIONS: Below are seven classifications of CWM configuration and their descriptions. Circle the scores that correspond with **all** the CWM configurations known or suspected to be present at the MRS.

Note: The terms *CWM/UXO, CWM/DMM, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
CWM, that are either UXO, or explosively configured damaged DMM	The CWM known or suspected of being present at the MRS are: ◆ CWM that are UXO (i.e., CWM/UXO) ◆ Explosively configured CWM that are DMM (i.e., CWM/DMM) that have been damaged.	30
CWM mixed with UXO	◆ The CWM known or suspected of being present at the MRS are undamaged CWM/DMM or CWM not configured as a munition that are commingled with conventional munitions that are UXO.	25
CWM, explosive configuration that are undamaged DMM	◆ The CWM known or suspected of being present at the MRS are explosively configured CWM/DMM that have not been damaged.	20
CWM/DMM, not explosively configured or CWM, bulk container	The CWM known or suspected of being present at the MRS are: ◆ Nonexplosively configured CWM/DMM either damaged or undamaged ◆ Bulk CWM (e.g., ton container).	15
CAIS K941 and CAIS K942	◆ The CWM/DMM known or suspected of being present at the MRS are CAIS K941-toxic gas set M-1 or CAIS K942-toxic gas set M-2/E11.	12
CAIS (chemical agent identification sets)	◆ CAIS, other than CAIS K941 and K942, are known or suspected of being present at the MRS.	10
Evidence of no CWM	◆ Following investigation, the physical evidence indicates that CWM are not present at the MRS, or the historical evidence indicates that CWM are not present at the MRS.	**0**
CWM CONFIGURATION	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the *CWM Configuration* classifications in the space provided.

No known or suspected CWM hazard has been reported at the Lakes MRS. In addition, there is no evidence of CWM use throughout PTA's history (MMRP SI Report Section 2).

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Tables 12-19

No known or suspected CWM hazard is expected at this site. Therefore, Tables 12 through 19 have been intentionally omitted according to Active Army Guidance.

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Table 20
Determining the CHE Module Rating

DIRECTIONS:

1. From Tables 11–19, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **CHE Module Total** box below.
4. Circle the appropriate range for the **CHE Module Total** below.
5. Circle the **CHE Module Rating** that corresponds to the range selected and record this value in the **CHE Module Rating** box found at the bottom of the table.

Note:
An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
CWM Hazard Factor Data Elements			
CWM Configuration	Table 11	0	0
Sources of CWM	Table 12	-	
Accessibility Factor Data Elements			
Location of CWM	Table 13	-	-
Ease of Access	Table 14	-	
Status of Property	Table 15	-	
Receptor Factor Data Elements			
Population Density	Table 16	-	-
Population Near Hazard	Table 17	-	
Types of Activities/Structures	Table 18	-	
Ecological and/or Cultural Resources	Table 19	-	
CHE MODULE TOTAL			0

CHE Module Total	CHE Module Rating
92 to 100	A
82 to 91	B
71 to 81	C
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected CWM Hazard
CHE MODULE RATING	**No Known or Suspected CWM Hazard**

Table 21

HHE Module: Groundwater Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's groundwater and their comparison values (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant ratios together, including any additional groundwater contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the groundwater, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No groundwater samples were collected from this MRP under the MMRP RI. In addition, groundwater throughout the installation are being addressed under the IRP and will not be included in the Active Army MMRP Program.			
CHF Scale	**CHF Value**	**Sum The Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the groundwater is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the groundwater to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater receptors at the MRS.

Classification	Description	Value
Identified	There is a threatened water supply well downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer).	H
Potential	There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer).	M
Limited	There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only).	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Groundwater MC Hazard ☑

Table 22

HHE Module: Surface Water – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value.** Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF,** use the **CHF Scale** to determine and record the **CHF Value.** If there is no known or suspected MC hazard with human endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
MC in surface water are being addressed as part of the IRP and will not be included in the Active Army MMRP Program.			

CHF Scale	CHF Value	Sum The Ratios
CHF > 100	H (High)	$CHF = \Sigma \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$
100 > CHF > 2	M (Medium)	
2 > CHF	L (Low)	

CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).	

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Surface Water (Human Endpoint) MC Hazard	☑

Table 23

HHE Module: Sediment – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with human endpoints present in the sediment, select the box at the bottom of the table.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
MC in sediment are being addressed as part of the IRP and will not be included in the Active Army MMRP Program.			
CHF Scale	**CHF Value**	**Sum The Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Sediment (Human Endpoint) MC Hazard ☑

Table 24

HHE Module: Surface Water – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
MC in surface water are being addressed as part of the IRP and will not be included in the Active Army MMRP Program.			

CHF Scale	CHF Value	Sum the Ratios	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Surface Water (Ecological Endpoint) MC Hazard ☑

Table 25

HHE Module: Sediment – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the sediment, select the box at the bottom of the table.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
MC in sediment are being addressed as part of the IRP and will not be included in the Active Army MMRP Program.			
CHF Scale	**CHF Value**	**Sum the Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Sediment (Ecological Endpoint) MC Hazard ☑

Table 26

HHE Module: Surface Soil Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface soil and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface soil contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the surface soil, select the box at the bottom of the table.

.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratio
No MC samples were collected from this MRS under the MMRP RI. In addition, MC for the land portion of Picatinny Lake is covered under the IRP.			

CHF Scale	CHF Value	Sum the Ratios	
CHF > 100	H (High)	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	M (Medium)		
2 > CHF	L (Low)		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface soil is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface soil has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface soil to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface soil to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface soil to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface soil to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Surface Soil MC Hazard ☑

Table 27

HHE Module: Supplemental Contaminant Hazard Factor Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Only use this table if there are more than five contaminants in any given medium present at the MRS. This is a supplemental table designed to hold information about contaminants that do not fit in the previous tables. Indicate the **media** in which these contaminants are present. Then record all **contaminants**, their **maximum concentrations** and their **comparison values** (from Appendix B of the Primer) in the table below. Calculate and record the **ratio** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** for each medium on the appropriate media-specific tables.

Note: Do not add ratios from different media.

Media	Contaminant	Maximum Concentration	Comparison Value	Ratio

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Table 28

Determining the HHE Module Rating

DIRECTIONS:

1. Record the letter values (H, M, L) for the **Contaminant Hazard**, **Migration Pathway**, and **Receptor Factors** for the media (from Tables 21–26) in the corresponding boxes below.
2. Record the media's three-letter combinations in the **Three-Letter Combination** boxes below (three-letter combinations are arranged from Hs to Ms to Ls).
3. Using the **HHE Ratings** provided below, determine each media's rating (A–G) and record the letter in the corresponding **Media Rating** box below.

Media (Source)	**Contaminant Hazard Factor Value**	**Migratory Pathway Factor Value**	**Receptor Factor Value**	Three-Letter Combination (Hs-Ms-Ls)	Media Rating (A-G)
Groundwater (Table 21)	-	-	-	-	-
Surface Water/Human Endpoint (Table 22)	-	-	-	-	-
Sediment/Human Endpoint (Table 23)	-	-	-	-	-
Surface Water/Ecological Endpoint (Table 24)	-	-	-	-	-
Sediment/Ecological Endpoint (Table 25)	-	-	-	-	-
Surface Soil (Table 26)	-	-	-	-	-

DIRECTIONS (cont.):

4. Select the single highest Media Rating (A is highest; G is lowest) and enter the letter in the **HHE Module Rating** box.

Note:

An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more media, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

HHE MODULE RATING	-

HHE Ratings (for reference only)

Combination	**Rating**
HHH	A
HHM	B
HHL	C
HMM	
HML	D
MMM	
HLL	E
MML	
MLL	F
LLL	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected MC Hazard

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Table 29
MRS Priority

DIRECTIONS: In the chart below, circle the letter **rating** for each module recorded in Table 10 (EHE), Table 20 (CHE), and Table 28 (HHE). Circle the corresponding numerical **priority** for each module. If information to determine the module rating is not available, choose the appropriate alternative module rating. The MRS Priority is the single highest priority; record this relative priority in the **MRS Priority or Alternative MRS Rating** at the bottom of the table.

Note: An MRS assigned Priority 1 has the highest relative priority; an MRS assigned Priority 8 has the lowest relative priority. Only an MRS with CWM known or suspected to be present can be assigned Priority 1; an MRS that has CWM known or suspected to be present cannot be assigned Priority 8.

EHE Rating	Priority	CHE Rating	Priority	HHE Rating	Priority
		A	**1**		
A	**2**	**B**	**2**	**A**	**2**
B	3	**C**	**3**	**B**	**3**
C	**4**	**D**	**4**	**C**	**4**
D	**5**	**E**	**5**	**D**	**5**
E	**6**	**F**	**6**	**E**	**6**
F	**7**	**G**	**7**	**F**	**7**
G	**8**			**G**	**8**
Evaluation Pending		Evaluation Pending		Evaluation Pending	
No Longer Required		No Longer Required		No Longer Required	
No Known or Suspected Explosive Hazard		**No Known or Suspected CWM Hazard**		**No Known or Suspected MC Hazard**	
MRS PRIORITY or ALTERNATIVE MRS RATING				**4**	

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LAKE DENMARK – OFF-POST MRS

Table A
MRS Background Information

DIRECTIONS: Record the background information below for the MRS to be evaluated. Much of this information is available from Service and DoD databases. If the MRS is located on a FUDS property, the suitable FUDS property information should be substituted. In the **MRS Summary**, briefly describe the UXO, DMM, or MC that are known or suspected to be present, the exposure setting (the MRS's physical environment), any other incidental nonmunitions-related contaminants (e.g., benzene, trichloroethylene) found at the MRS, and any potentially exposed human and ecological receptors. If possible, include a map of the MRS.

Munitions Response Site Name/AEDB-R #: Lake Denmark – Off-Post (PICA-012-R-01)

Component: Army

Installation/Property Name: Picatinny Arsenal, NJ

Location (City, County, State): Morris County, New Jersey

Site Name/Project Name (Project No.): Lake Denmark – Off-Post / Picatinny Arsenal SI (2118-096)

Date Information Entered/Updated: November 27, 2013

Preparer's Name/Organization/Phone: Layne Young, ARCADIS-US, Inc., (410) 332-4806

Point of Contact (Name/Phone): Nancy Flaherty (410) 779-2796

Project Phase (check only one):

❑ PA	☒ SI	❑ RI	❑ FS	❑ RD
❑ RA-C	❑ RIP	❑ RA-O	❑ RC	❑ LTM

Media Evaluated (check all that apply):

❑ Groundwater	❑ Sediment (human receptor)
❑ Surface soil	❑ Surface Water (ecological receptor)
❑ Sediment (ecological receptor)	❑ Surface Water (human receptor)

MRS Summary:

MRS Description: Describe the munitions-related activities that occurred at the installation, the dates of operation, and the UXO, DMM, or MC known or suspected to be present. When possible, identify munitions, CWM, and MC by type:

This MRS, located in Rockaway Township on the PTA border, consists of all off-post property that falls within the safety fan of Lake Denmark's former ranges. Previously, the lake was used as a mortar impact area and an experimental munitions testing range. Three ranges, 60-mm, 81-mm, and 4.2-inch inert mortar ranges, were identified. These ranges shared a single firing point on the southern end of the lake, but had several lines of fire. Several impact areas were located on the northern end of the lake. A 20-mm cannon range that fired across Lake Denmark toward an impact area near Bldg. 1221 was also identified. Additionally during an interview conducted on 30 April, 2013 (included in Appendix B) a Sagger Missile Firing point was identified for the Lake Denmark Range (Figure 1-12). During the interview it was detailed that the missiles were designed to float once the motors were expended and the missiles were recovered using boats after each firing. Additionally two observations points, one of each side of Lake Denmark, from which installation personnel would observe/view the missile and mortar firing. A visual survey was conducted on approximately 5 acres of this property during the SI; no MEC or munitions debris were observed during the survey. During the MMRP RI, approximately 5.8 miles of non-intrusive visual surveys were conducted and no MEC, MD, or munitions related features were found.

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MC Summary

For the MMRP RI, biased MC sampling was proposed for this MRS; however, biased MC sampling was not required since field observation of the MEC found did not indicate any potential releases. Therefore, MC exposure pathways are incomplete.

Description of Receptors (Human and Ecological):

This site contains commercial/light industrial properties and vacant land; the largest property associated with the Lake Denmark Off-Post MRS is Radiation Technology, Inc., a Superfund Site. Currently, the former RTI facility is leased by Sterigenics, a global company that provides sterilization and ionization services for the healthcare, food safety, and advanced applications industries. The Lake Denmark – Off-Post MRS is located adjacent to Lake Denmark, with a small cove extending into the MRS. According to NJDEP's I-Map website, wetlands are present throughout this MRS; the remainder of the undeveloped area at this MRS is forested. This MRS is located in a Highlands Preservation Area.

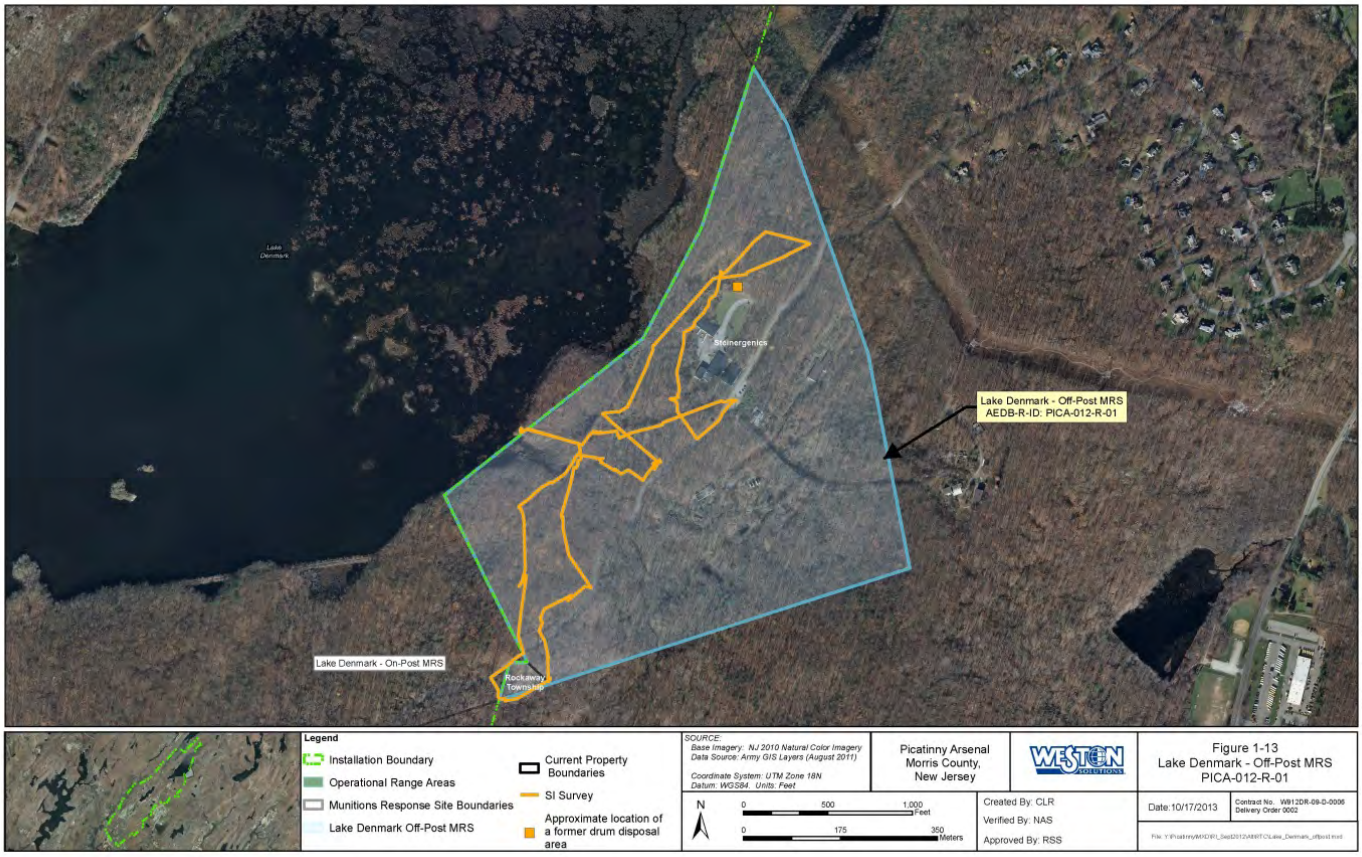

Table 1

EHE Module: Munitions Type Data Element Table

DIRECTIONS: Below are 11 classifications of munitions and their descriptions. Circle the scores that correspond with **all** the munitions types known or suspected to be present at the MRS.

Note: The terms *practice munitions, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Sensitive	◆ UXO that are considered most likely to function upon any interaction with exposed persons (e.g., submunitions, 40mm high-explosive [HE] grenades, white phosphorus [WP] munitions, high-explosive antitank [HEAT] munitions, and practice munitions with sensitive fuzes, but excluding all other practice munitions). ◆ Hand grenades containing energetic filler. ◆ Bulk primary explosives, or mixtures of these with environmental media, such that the mixture poses an explosive hazard.	30
High explosive (used or damaged)	◆ UXO containing a high-explosive filler (e.g., RDX, Composition B), that are not considered "sensitive." ◆ DMM containing a high-explosive filler that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	25
Pyrotechnic (used or damaged)	◆ UXO containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades). ◆ DMM containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades) that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	20
High explosive (unused)	◆ DMM containing a high-explosive filler that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	15
Propellant	◆ UXO containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor) that are: ▪ Damaged by burning or detonation ▪ Deteriorated to the point of instability.	15
Bulk secondary high explosives, pyrotechnics, or propellant	◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM that are bulk secondary high explosives, pyrotechnic compositions, or propellant (not contained in a munition), or mixtures of these with environmental media such that the mixture poses an explosive hazard.	10
Pyrotechnic (not used or damaged)	◆ DMM containing a pyrotechnic filler (i.e., red phosphorus), other than white phosphorus filler, that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	10
Practice	◆ UXO that are practice munitions that are not associated with a sensitive fuze. ◆ DMM that are practice munitions that are not associated with a sensitive fuze and that have not: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	5
Riot control	◆ UXO or DMM containing a riot control agent filler (e.g., tear gas).	3
Small arms	◆ Used munitions or DMM that are categorized as small arms ammunition. (Physical evidence or historical evidence that no other types of munitions [e.g., grenades, subcaliber training rockets, demolition charges] were used or are present on the MRS is required for selection of this category.)	2
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	**0**
MUNITIONS TYPE	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**0**

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Table 1

EHE Module: Munitions Type Data Element Table

DIRECTIONS: Below are 11 classifications of munitions and their descriptions. Circle the scores that correspond with **all** the munitions types known or suspected to be present at the MRS.

Note: The terms *practice munitions, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score

DIRECTIONS: Document any MRS-specific data used in selecting the ***Munitions Type*** classifications in the space provided.

During the MMRP RI, approximately 5.8 miles of non-intrusive visual surveys were conducted and no MEC, MD, or munitions related features were found (Section 1.4.2 Fieldwork Data Package).

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Tables 2-9

No MPPEH were found at this MRS during the MMRP RI. Therefore, Tables 2 through 9 have been intentionally omitted according to Active Army Guidance.

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Table 10
Determining the EHE Module Rating

DIRECTIONS:

1. From Tables 1–9, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **EHE Module Total** box below.
4. Circle the appropriate range for the **EHE Module Total** below.
5. Circle the **EHE Module Rating** that corresponds to the range selected and record this value in the **EHE Module Rating** box found at the bottom of the table.

Note:
An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
Explosive Hazard Factor Data Elements			
Munitions Type	Table 1	0	0
Source of Hazard	Table 2	--	
Accessibility Factor Data Elements			
Location of Munitions	Table 3	--	--
Ease of Access	Table 4	--	
Status of Property	Table 5	--	
Receptor Factor Data Elements			
Population Density	Table 6	--	--
Population Near Hazard	Table 7	--	
Types of Activities/Structures	Table 8	--	
Ecological and/or Cultural Resources	Table 9	--	
EHE MODULE TOTAL			--

EHE Module Total	EHE Module Rating
92 to 100	A
82 to 91	B
71 to 81	C
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected Explosive Hazard
EHE MODULE RATING	**No Known or Suspected Explosive Hazard**

Table 11

CHE Module: CWM Configuration Data Element Table

DIRECTIONS: Below are seven classifications of CWM configuration and their descriptions. Circle the scores that correspond with **all** the CWM configurations known or suspected to be present at the MRS.

Note: The terms *CWM/UXO, CWM/DMM, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
CWM, that are either UXO, or explosively configured damaged DMM	The CWM known or suspected of being present at the MRS are: ◆ CWM that are UXO (i.e., CWM/UXO) ◆ Explosively configured CWM that are DMM (i.e., CWM/DMM) that have been damaged.	30
CWM mixed with UXO	◆ The CWM known or suspected of being present at the MRS are undamaged CWM/DMM or CWM not configured as a munition that are commingled with conventional munitions that are UXO.	25
CWM, explosive configuration that are undamaged DMM	◆ The CWM known or suspected of being present at the MRS are explosively configured CWM/DMM that have not been damaged.	20
CWM/DMM, not explosively configured or CWM, bulk container	The CWM known or suspected of being present at the MRS are: ◆ Nonexplosively configured CWM/DMM either damaged or undamaged ◆ Bulk CWM (e.g., ton container).	15
CAIS K941 and CAIS K942	◆ The CWM/DMM known or suspected of being present at the MRS are CAIS K941-toxic gas set M-1 or CAIS K942-toxic gas set M-2/E11.	12
CAIS (chemical agent identification sets)	◆ CAIS, other than CAIS K941 and K942, are known or suspected of being present at the MRS.	10
Evidence of no CWM	◆ Following investigation, the physical evidence indicates that CWM are not present at the MRS, or the historical evidence indicates that CWM are not present at the MRS.	**0**
CWM CONFIGURATION	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the ***CWM Configuration*** classifications in the space provided.

No known or suspected CWM hazard has been reported at this MRS. In addition, there is no evidence of CWM use throughout PTA's history (MMRP RI Report Section 2).

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Tables 12-19

No known or suspected CWM hazard is expected at this site. Therefore, Tables 12 through 19 have been intentionally omitted according to Active Army Guidance.

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Table 20
Determining the CHE Module Rating

DIRECTIONS:

1. From Tables 11–19, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **CHE Module Total** box below.
4. Circle the appropriate range for the **CHE Module Total** below.
5. Circle the **CHE Module Rating** that corresponds to the range selected and record this value in the **CHE Module Rating** box found at the bottom of the table.

Note:
An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
CWM Hazard Factor Data Elements			
CWM Configuration	Table 11	0	0
Sources of CWM	Table 12	--	
Accessibility Factor Data Elements			
Location of CWM	Table 13	--	--
Ease of Access	Table 14	--	
Status of Property	Table 15	--	
Receptor Factor Data Elements			
Population Density	Table 16	--	--
Population Near Hazard	Table 17	--	
Types of Activities/Structures	Table 18	--	
Ecological and/or Cultural Resources	Table 19	--	
CHE MODULE TOTAL			--

CHE Module Total	CHE Module Rating
92 to 100	A
82 to 91	B
71 to 81	C
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected CWM Hazard
CHE MODULE RATING	**No Known or Suspected CWM Hazard**

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Table 21

HHE Module: Groundwater Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's groundwater and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional groundwater contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the groundwater, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No groundwater data were collected for this site.			
CHF Scale	**CHF Value**	**Sum The Ratios**	
CHF > 100	**H (High)**	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the groundwater is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the groundwater to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater receptors at the MRS.

Classification	Description	Value
Identified	There is a threatened water supply well downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer).	H
Potential	There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer).	M
Limited	There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only).	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Groundwater MC Hazard ☐

Table 22

HHE Module: Surface Water – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with human endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No surface water data were collected for this site.			
CHF Scale	**CHF Value**	**Sum The Ratios**	
CHF > 100	**H (High)**	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Surface Water (Human Endpoint) MC Hazard ☐

Table 23

HHE Module: Sediment – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with human endpoints present in the sediment, select the box at the bottom of the table.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
No sediment data were collected for this site.			
CHF Scale	**CHF Value**	**Sum The Ratios**	
CHF > 100	**H (High)**	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Sediment (Human Endpoint) MC Hazard ☐

Table 24

HHE Module: Surface Water – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No surface water data were collected for this site.			
CHF Scale	**CHF Value**	**Sum the Ratios**	
CHF > 100	**H (High)**	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Surface Water (Ecological Endpoint) MC Hazard ☐

Table 25

HHE Module: Sediment – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the sediment, select the box at the bottom of the table.

.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
No sediment data were collected for this site.			
CHF Scale	**CHF Value**	**Sum the Ratios**	
CHF > 100	**H (High)**	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Sediment (Ecological Endpoint) MC Hazard ☐

Table 26

HHE Module: Surface Soil Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface soil and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface soil contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the surface soil, select the box at the bottom of the table.

.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratio
No surface soil data were collected for this site.			
CHF Scale	**CHF Value**	**Sum the Ratios**	
CHF > 100	**H (High)**	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface soil is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface soil has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface soil to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface soil to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface soil to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface soil to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Surface Soil MC Hazard ☑

Table 27

HHE Module: Supplemental Contaminant Hazard Factor Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Only use this table if there are more than five contaminants in any given medium present at the MRS. This is a supplemental table designed to hold information about contaminants that do not fit in the previous tables. Indicate the **media** in which these contaminants are present. Then record all **contaminants**, their **maximum concentrations** and their **comparison values** (from Appendix B of the Primer) in the table below. Calculate and record the **ratio** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** for each medium on the appropriate media-specific tables.

Note: Do not add ratios from different media.

Media	Contaminant	Maximum Concentration	Comparison Value	Ratio

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Table 28

Determining the HHE Module Rating

DIRECTIONS:

1. Record the letter values (H, M, L) for the **Contaminant Hazard**, **Migration Pathway**, and **Receptor Factors** for the media (from Tables 21–26) in the corresponding boxes below.
2. Record the media's three-letter combinations in the **Three-Letter Combination** boxes below (three-letter combinations are arranged from Hs to Ms to Ls).
3. Using the **HHE Ratings** provided below, determine each media's rating (A–G) and record the letter in the corresponding **Media Rating** box below.

Media (Source)	Contaminant Hazard Factor Value	Migratory Pathway Factor Value	Receptor Factor Value	Three-Letter Combination (Hs-Ms-Ls)	Media Rating (A-G)
Groundwater (Table 21)	--	--	--	--	--
Surface Water/Human Endpoint (Table 22)	--	--	--	--	--
Sediment/Human Endpoint (Table 23)	--	--	--	--	--
Surface Water/Ecological Endpoint (Table 24)	--	--	--	--	--
Sediment/Ecological Endpoint (Table 25)	--	--	--	--	--
Surface Soil (Table 26)	--	--	--	--	--

DIRECTIONS (cont.):

4. Select the single highest Media Rating (A is highest; G is lowest) and enter the letter in the **HHE Module Rating** box.

Note:

An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more media, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

HHE MODULE RATING	--

HHE Ratings (for reference only)

Combination	Rating
HHH	A
HHM	B
HHL	C
HMM	C
HML	D
MMM	D
HLL	E
MML	E
MLL	F
LLL	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected MC Hazard

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Table 29
MRS Priority

DIRECTIONS: In the chart below, circle the letter **rating** for each module recorded in Table 10 (EHE), Table 20 (CHE), and Table 28 (HHE). Circle the corresponding numerical **priority** for each module. If information to determine the module rating is not available, choose the appropriate alternative module rating. The MRS Priority is the single highest priority; record this relative priority in the **MRS Priority or Alternative MRS Rating** at the bottom of the table.

Note: An MRS assigned Priority 1 has the highest relative priority; an MRS assigned Priority 8 has the lowest relative priority. Only an MRS with CWM known or suspected to be present can be assigned Priority 1; an MRS that has CWM known or suspected to be present cannot be assigned Priority 8.

EHE Rating	Priority	CHE Rating	Priority	HHE Rating	Priority
		A	**1**		
A	**2**	**B**	**2**	**A**	**2**
B	**3**	**C**	**3**	**B**	**3**
C	**4**	**D**	**4**	**C**	**4**
D	5	**E**	**5**	**D**	**5**
E	**6**	**F**	**6**	**E**	**6**
F	**7**	G	7	**F**	**7**
G	**8**			**G**	**8**
Evaluation Pending		Evaluation Pending		Evaluation Pending	
No Longer Required		No Longer Required		No Longer Required	
No Known or Suspected Explosive Hazard		**No Known or Suspected CWM Hazard**		**No Known or Suspected MC Hazard**	
MRS PRIORITY or ALTERNATIVE MRS RATING				**No Known or Suspected Explosive, CWM, or MC Hazard**	

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INACTIVE MUNITIONS WASTE PIT MRS

Table A
MRS Background Information

DIRECTIONS: Record the background information below for the Munitions Response Site (MRS) to be evaluated. Much of this information is available from Service and DoD databases. If the MRS is located on a FUDS property, the suitable FUDS property information should be substituted. In the **MRS Summary**, briefly describe the UXO, DMM, or MC that are known or suspected to be present, the exposure setting (the MRS's physical environment), any other incidental nonmunitions-related contaminants (e.g., benzene, trichloroethylene) found at the MRS, and any potentially exposed human and ecological receptors. If possible, include a map of the MRS.

Munitions Response Site Name/AEDB-R #: Inactive Munitions Waste Pit (PICA-013-R-01)

Component: Army

Installation/Property Name: Picatinny Arsenal, NJ

Location (City, County, State): Morris County, New Jersey

Site Name/Project Name (Project No.): Inactive Munitions Waste Pit / Picatinny Arsenal RI (038160030000)

Date Information Entered/Updated: November 2013

Preparer's Name/Organization/Phone: Layne Young, ARCADIS-US, Inc (410.332.4806)

Point of Contact (Name/Phone): Nancy Flaherty (410.779.2796)

Project Phase (check only one):

❑ PA	❑ SI	✠ RI	❑ FS	❑ RD
❑ RA-C	❑ RIP	❑ RA-O	❑ RC	❑ LTM

Media Evaluated (check all that apply):

❑ Groundwater	❑ Sediment (human receptor)
❑ Surface soil	❑ Surface Water (ecological receptor)
❑ Sediment (ecological receptor)	❑ Surface Water (human receptor)

MRS Summary:

MRS Description: Describe the munitions-related activities that occurred at the installation, the dates of operation, and the Unexploded Ordnance (UXO), Discarded Military Munitions (DMM), or Munitions Constituents (MC) known or suspected to be present.

This Munitions Response Site (MRS), which covers approximately 21 acres, is located northwest of the northernmost end of Picatinny Lake, near the installation boundary. This site contains a range and the associated surface danger zone (SDZ); a portion of the SDZ falls off post and is included as a separate MRS (Inactive Munitions Waste Pit – Off-Post). It was reported that this site, which was an open field, was used from 1955 to the mid-1980s for the testing and storage of munitions and explosives. A burn cage, a gun turret, and a building (Bldg. 656) are present at this MRS; it is unknown whether all these structures were present throughout the site's operation. In the 1980s, the site was covered with topsoil and sand, and in the late 1990s, the majority of the site was covered with fill and rock up to 12 feet in thickness (*Final Historical Records Review, Picatinny Arsenal, New Jersey*, November 2006). A portion of the AOI Code 300 Area also overlaps the MRS, which according to a 1973 DoD report, Executive Order 11508 PTA Survey Report, Picatinny Arsenal, Dover, New Jersey, was used for artillery firing of shells up to 155mm and fragmentation pattern testing (WESTON, 2012).

During recent sampling events conducted under the Installation Restoration Program (IRP), it was determined that the bulk of the fill was removed throughout the site except in the northern portion of the MRS. During recent trenching operations, used to locate the source of a trichloroethylene plume in groundwater, confirmed MEC discovered at the

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Inactive Munitions Waste Pit MRS consisted of one gravel mine canister identified as DMM in nature. MD were also found at the former testing area in the center of the Inactive Munitions Waste Pit MRS including LAW rocket tubes, an M72 Rocket Launcher for 66-mm (LAW) rockets, CN/CS teargas canisters, expended 40-mm grenade cartridge cases, an exploded XM31 antitank landmine, 155-mm fragments, expended MK45 aircraft flare, and expended PD fuzes.

During the IRP intrusive investigations it was determined that DMM were comingled with other debris; the debris layer was observed below unconsolidated fill material, and terminated approximately 4.5 feet above where bedrock was encountered at 24.5 feet bgs. Although the IRP trench investigation identified debris located primarily below 10 feet, intrusive operations performed elsewhere within the former burial pit during the IRP trench investigation discovered MD and MEC within 10 feet of ground surface. Specifically, one DMM item, a gravel mine canister, was encountered at 4.5 feet bgs. A locked gate controls access to this site.

MC Summary:

Four soil samples were collected from trenches installed in the IRP for the purpose of the MMRP RI. These samples were collected at depths ranging from 10 to 24.5 feet bgs and were analyzed for select metals, explosives, and perchlorate. Analysis of these samples indicated the presence of 2,4-dinitrotoluene at a concentration above the New Jersey Department of Environmental Protection (NJDEP) residential soil remediation standard (SRS). The explosives exceedance was found at the burial pit location which is covered by a regulator approved IRP FS and will eventually be addressed by a future IRP remedial action.

Description of Receptors (Human and Ecological):

The former range is located on Green Pond Mountain in the northwestern portion of PTA. Currently, this site contains a gun turret, an elevated stand from which munitions were hung and/or fired, a metal cage in which munitions were detonated, three concrete bases with a cut projectile casing in each, several 8-inch gun barrels, one partial jet hull, two pieces of 18-inch long concrete storm sewer pipes, and several mounds of asphalt/concrete/brick debris. Historically, a control building (Bldg. 656), a guard shack, another elevated stand, two additional jet hulls, a steel test unit, and steel observation towers existed at the site. It is unknown if all these structures were present throughout the MRSs operation. Currently, this site is surrounded by existing ranges and it acts as a buffer between ranges (Section 3.9.2 MMRP RI Work Plan).

No waterbodies are present on this MRS. This site mainly contains bare ground associated with fill areas; it is surrounded by deciduous forest. NJDEP's i-Map Landscape project layer indicates that this MRS contains habitat with at least once occurrence of a state threatened species.

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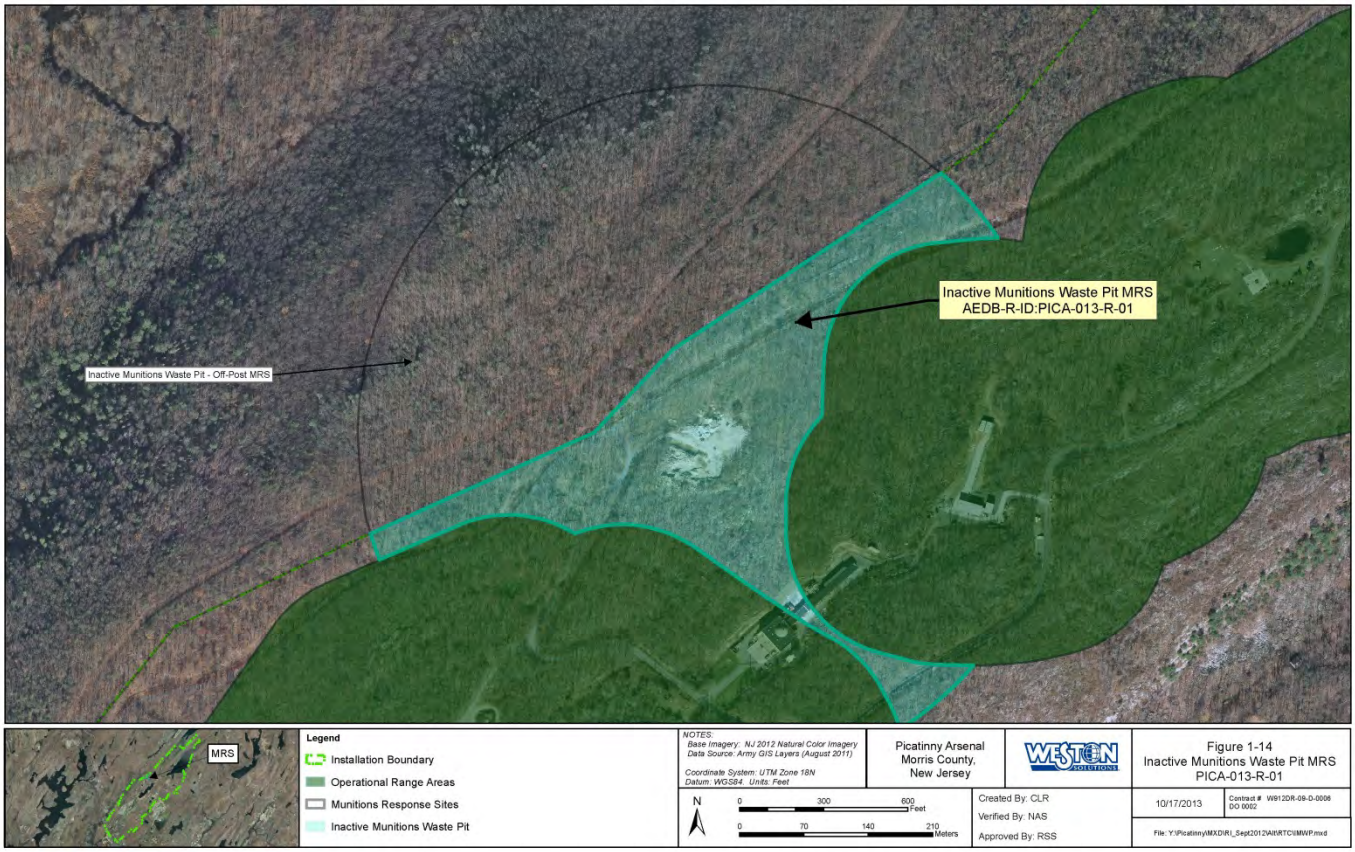
Inactive Munitions Waste Pit MRS
AEDB-R-ID:PICA-013-R-01
Inactive Munitions Waste Pit - Off-Post MRS
MRS
Legend
Installation Boundary
Operational Range Areas
Munitions Response Sites
Inactive Munitions Waste Pit
NOTES:
Base Imagery: NJ 2012 Natural Color Imagery
Data Source: Army GIS Layers (August 2011)
Coordinate System: UTM Zone 18N
Datum: WGS84. Units: Feet
N
0 300 600 Feet
0 70 140 210 Meters
Picatinny Arsenal
Morris County,
New Jersey
WESTON SOLUTIONS
Figure 1-14
Inactive Munitions Waste Pit MRS
PICA-013-R-01
Created By: CLR
Verified By: NAS
Approved By: RSS
10/17/2013
Contract # W912DR-09-D-0006
DO 0002
File: Y:\Picatinny\MXD\RI_Sept2012\Alt\RTC\IMWP.mxd

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Table 1

EHE Module: Munitions Type Data Element Table

DIRECTIONS: Below are 11 classifications of munitions and their descriptions. Circle the scores that correspond with **all** the munitions types known or suspected to be present at the MRS.

Note: The terms *practice munitions, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Sensitive	◆ UXO that are considered most likely to function upon any interaction with exposed persons (e.g., submunitions, 40mm high-explosive [HE] grenades, white phosphorus [WP] munitions, high-explosive antitank [HEAT] munitions, and practice munitions with sensitive fuzes, but excluding all other practice munitions). ◆ Hand grenades containing energetic filler. ◆ Bulk primary explosives, or mixtures of these with environmental media, such that the mixture poses an explosive hazard.	**30**
High explosive (used or damaged)	◆ UXO containing a high-explosive filler (e.g., RDX, Composition B), that are not considered "sensitive." ◆ DMM containing a high-explosive filler that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	**25**
Pyrotechnic (used or damaged)	◆ UXO containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades). ◆ DMM containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades) that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	**20**
High explosive (unused)	◆ DMM containing a high-explosive filler that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	**15**
Propellant	◆ UXO containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor) that are: ▪ Damaged by burning or detonation ▪ Deteriorated to the point of instability.	**15**
Bulk secondary high explosives, pyrotechnics, or propellant	◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM that are bulk secondary high explosives, pyrotechnic compositions, or propellant (not contained in a munitions), or mixtures of these with environmental media such that the mixture poses an explosive hazard.	10
Pyrotechnic (not used or damaged)	◆ DMM containing a pyrotechnic filler (i.e., red phosphorus), other than white phosphorus filler, that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	10
Practice	◆ UXO that are practice munitions that are not associated with a sensitive fuze. ◆ DMM that are practice munitions that are not associated with a sensitive fuze and that have not: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	5
Riot control	◆ UXO or DMM containing a riot control agent filler (e.g., tear gas).	3
Small arms	◆ Used munitions or DMM that are categorized as small arms ammunition. (Physical evidence or historical evidence that no other types of munitions [e.g., grenades, subcaliber training rockets, demolition charges] were used or are present on the MRS is required for selection of this category.)	2
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	0
MUNITIONS TYPE	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**30**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Munitions Type*** classifications in the space provided.

During recent trenching operations, used to locate the source of a trichloroethylene plume in groundwater, confirmed MEC discovered at the Inactive Munitions Waste Pit MRS consisted of one gravel mine canister, identified as DMM in nature. MD were also found at the former testing area in the center of the Inactive Munitions Waste Pit MRS including LAW rocket tubes, an M72 Rocket Launcher for 66-mm (LAW) rockets, CN/CS teargas canisters, expended 40-mm

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Table 1

EHE Module: Munitions Type Data Element Table

DIRECTIONS: Below are 11 classifications of munitions and their descriptions. Circle the scores that correspond with **all** the munitions types known or suspected to be present at the MRS.

Note: The terms *practice munitions, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
grenade cartridge cases, an exploded XM31 antitank landmine, 155-mm fragments, expended MK45 aircraft flare, and expended PD fuzes. During the IRP intrusive investigations it was determined that DMM were comingled with other debris; the debris layer was observed below unconsolidated fill material, and terminated approximately 4.5 feet above where bedrock was encountered at 24.5 feet bgs. Although the IRP trench investigation identified debris located primarily below 10 feet, intrusive operations performed elsewhere within the former burial pit during the IRP trench investigation discovered MD and MEC within 10 feet of ground surface. Specifically, one DMM item, a gravel mine canister, was encountered at 4.5 feet bgs (Section 6.8 MMRP RI Report).		

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Table 2

EHE Module: Source of Hazard Data Element Table

DIRECTIONS: Below are 11 classifications describing sources of explosive hazards. Circle the scores that correspond with **all** the sources of explosive hazards known or suspected to be present at the MRS.

Note: The terms *former range, practice munitions, small arms range, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Former range	◆ The MRS is a former military range where munitions (including practice munitions with sensitive fuzes) have been used. Such areas include impact or target areas and associated buffer and safety zones.	**10**
Former munitions treatment (i.e., OB/OD) unit	◆ The MRS is a location where UXO or DMM (e.g., munitions, bulk explosives, bulk pyrotechnic, or bulk propellants) were burned or detonated for the purpose of treatment prior to disposal.	8
Former practice munitions range	◆ The MRS is a former military range on which only practice munitions without sensitive fuzes were used.	6
Former maneuver area	◆ The MRS is a former maneuver area where no munitions other than flares, simulators, smokes, and blanks were used. There must be evidence that no other munitions were used at the location to place an MRS into this category.	5
Former burial pit or other disposal area	◆ The MRS is a location where DMM were buried or disposed of (e.g., disposed of into a water body) without prior thermal treatment.	5
Former industrial operating facilities	◆ The MRS is a location that is a former munitions maintenance, manufacturing, or demilitarization facility.	4
Former firing points	◆ The MRS is a firing point, where the firing point is delineated as an MRS separate from the rest of a former military range.	4
Former missile or air defense artillery emplacements	◆ The MRS is a former missile defense or air defense artillery (ADA) emplacement not associated with a military range.	2
Former storage or transfer points	◆ The MRS is a location where munitions were stored or handled for transfer between different modes of transportation (e.g., rail to truck, truck to weapon system).	**2**
Former small arms range	◆ The MRS is a former military range where only small arms ammunition was used. (There must be evidence that no other types of munitions [e.g., grenades] were used or are present to place an MRS into this category.)	1
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that no UXO or DMM are present, or there is historical evidence indicating that no UXO or DMM are present.	0
SOURCE OF HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**10**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Source of Hazard*** classifications in the space provided.

A burn cage, a gun turret, and a building (Bldg. 656) are present at this MRS; it is unknown whether all these structures were present throughout the site's operation. In the 1980s, the site was covered with topsoil and sand, and in the late 1990s, the majority of the site was covered with fill and rock up to 12 feet in thickness (*Final Historical Records Review, Picatinny Arsenal, New Jersey*, November 2006). During recent sampling events conducted under the IRP at this MRS fuzes, LAW tubes, an illumination device, CDU-10 gravel mine dispensers, inert tear gas canisters, expended 40 mm grenade cartridge cases, expended M31 anti-tank landmine, a155 mm fragment, and an expended MK45 aircraft flare were found.

Observations from aerial photographs show that the former testing area has been used as a disposal site for the last 40 years. Layers of fill and debris have been stacked at the former testing area and periodically leveled since the early 1960s. Recent intrusive work

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Table 2

EHE Module: Source of Hazard Data Element Table

DIRECTIONS: Below are 11 classifications describing sources of explosive hazards. Circle the scores that correspond with **all** the sources of explosive hazards known or suspected to be present at the MRS.

Note: The terms *former range, practice munitions, small arms range, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
shows that debris is scattered throughout the former testing area. Although MD has been recovered, the MEC density has been found to be low, consisting of only one DMM (CDU-10/B gravel mine canister) (Section 2.9 and Appendix C MMRP RI Report).		

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Table 3

EHE Module: Location of Munitions Data Element Table

DIRECTIONS: Below are eight classifications of munitions locations and their descriptions. Circle the scores that correspond with **all** the locations where munitions are known or suspected to be present at the MRS.

Note: The terms *confirmed, surface, subsurface, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Confirmed surface	◆ Physical evidence indicates that there are UXO or DMM on the surface of the MRS. ◆ Historical evidence (i.e., a confirmed report such as an explosive ordnance disposal [EOD], police, or fire department report that an incident or accident that involved UXO or DMM occurred) indicates there are UXO or DMM on the surface of the MRS.	25
Confirmed subsurface, active	◆ Physical evidence indicates the presence of UXO or DMM in the subsurface of the MRS, and the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose UXO or DMM. ◆ Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS and the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose UXO or DMM.	20
Confirmed subsurface, stable	◆ Physical evidence indicates the presence of UXO or DMM in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed. ◆ Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed.	**15**
Suspected (physical evidence)	◆ There is physical evidence (e.g., munitions debris such as fragments, penetrators, projectiles, shell casings, links, fins), other than the documented presence of UXO or DMM, indicating that UXO or DMM may be present at the MRS.	10
Suspected (historical evidence)	◆ There is historical evidence indicating that UXO or DMM may be present at the MRS.	5
Subsurface, physical constraint	◆ There is physical or historical evidence indicating that UXO or DMM may be present in the subsurface, but there is a physical constraint (e.g., pavement, water depth over 120 feet) preventing direct access to the UXO or DMM.	2
Small arms (regardless of location)	◆ The presence of small arms ammunition is confirmed or suspected, regardless of other factors such as geological stability. (There must be evidence that no other types of munitions [e.g., grenades] were used or are present at the MRS to place an MRS into this category.)	1
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	0
LOCATION OF MUNITIONS	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 25).	**15**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Location of Munitions*** classifications in the space provided.

Based on RI characterization activities at the Inactive Munitions Waste Pit MRS, the bulk source for MEC and MD is buried approximately 10 to 20 feet bgs. Several MD items and one DMM item were discovered at approximately 4.5 feet bgs in the Inactive Munitions Waste Pit MRS, which is below the frost line. Therefore, surface interactions such as wet/dry erosion and frost heave are not likely to impact source material (Section 8.9 MMRP RI Report).

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Table 4

EHE Module: Ease of Access Data Element Table

DIRECTIONS: Below are four classifications of barrier types that can surround an MRS and their descriptions. The barrier type is directly related to the ease of public access to the MRS. Circle the score that corresponds with the ease of access to the MRS.

Note: The term *barrier* is defined in Appendix C of the Primer.

Classification	Description	Score
No barrier	◆ There is no barrier preventing access to any part of the MRS (i.e., all parts of the MRS are accessible).	10
Barrier to MRS access is incomplete	◆ There is a barrier preventing access to parts of the MRS, but not the entire MRS.	8
Barrier to MRS access is complete but not monitored	◆ There is a barrier preventing access to all parts of the MRS, but there is no surveillance (e.g., by a guard) to ensure that the barrier is effectively preventing access to all parts of the MRS.	5
Barrier to MRS access is complete and monitored	◆ There is a barrier preventing access to all parts of the MRS, and there is active, continual surveillance (e.g., by a guard, video monitoring) to ensure that the barrier is effectively preventing access to all parts of the MRS.	**0**
EASE OF ACCESS	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ease of Access*** classification in the space provided.

A guarded fence blocks access to the MRS (Section 6.8 MMRP RI Report).

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Table 5

EHE Module: Status of Property Data Element Table

DIRECTIONS: Below are three classifications of the status of a property within the Department of Defense (DoD) and their descriptions. Circle the score that corresponds with the status of property at the MRS.

Classification	Description	Score
Non-DoD control	◆ The MRS is at a location that is no longer owned by, leased to, or otherwise possessed or used by DoD. Examples are privately owned land or water bodies; land or water bodies owned or controlled by state, tribal, or local governments; and land or water bodies managed by other federal agencies. ◆ The MRS is at a location that is owned by DoD, but that DoD has leased to another entity and for which DoD does not control access 24 hours per day.	5
Scheduled for transfer from DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD, and DoD plans to transfer that land or water body to the control of another entity (e.g., a state, tribal, or local government; a private party; another federal agency) within 3 years from the date the Protocol is applied.	3
DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD. With respect to property that is leased or otherwise possessed, DoD must control access to the MRS 24 hours per day, every day of the calendar year.	**0**
STATUS OF PROPERTY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Status of Property*** classification in the space provided.

This MRS is located on land owned by DoD; therefore, DoD control was selected (Section 2.9 MMRP RI Report).

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Table 6

EHE Module: Population Density Data Element Table

DIRECTIONS: Below are three classifications for population density and their descriptions. Determine the population density per square mile that most closely corresponds with the population of the MRS, including the area within a two-mile radius of the MRS's perimeter. Circle the most appropriate score.

Note: Use the U.S. Census Bureau tract data available to capture the **highest** population density within a two-mile radius of the perimeter of the MRS.

Classification	Description	Score
> 500 persons per square mile	◆ There are more than 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	5
100–500 persons per square mile	◆ There are 100 to 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	**3**
< 100 persons per square mile	◆ There are fewer than 100 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	1
POPULATION DENSITY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**3**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Density*** classification in the space provided.

According to the census bureau website, in the 2000 census there were 148 people per square mile in the census tract associated with that portion of Rockaway Township that falls within a 2-mile radius of this MRS' perimeter and 310 people per square mile in the census tract associated with that portion of Jefferson Township that falls within a 2-mile radius of this MRS' perimeter (www.census.gov).

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Table 7

EHE Module: Population Near Hazard Data Element Table

DIRECTIONS: Below are six classifications describing the number of inhabited structures near the MRS. The number of inhabited buildings relates to the potential population near the MRS. Determine the number of inhabited structures within two miles of the MRS boundary and circle the score that corresponds with the number of inhabited structures.

Note: The term *inhabited structures* is defined in Appendix C of the Primer.

Classification	Description	Score
26 or more inhabited structures	◆ There are 26 or more inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	**5**
16 to 25 inhabited structures	◆ There are 16 to 25 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	4
11 to 15 inhabited structures	◆ There are 11 to 15 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	3
6 to 10 inhabited structures	◆ There are 6 to 10 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	2
1 to 5 inhabited structures	◆ There are 1 to 5 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	1
0 inhabited structures	◆ There are no inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	0
POPULATION NEAR HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Near Hazard*** classification in the space provided.

Although this MRS is undeveloped, it is located within 2 miles of downtown PTA which contains hundreds of buildings for residential, administrative, training, and maintenance purposes (Section 6.8 MMRP RI Report).

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Table 8

EHE Module: Types of Activities/Structures Data Element Table

DIRECTIONS: Below are five classifications of activities and/or inhabited structures and their descriptions. Review the types of activities that occur and/or structures that are present within two miles of the MRS and circle the scores that correspond with **all** the activities/structure classifications at the MRS.

Note: The term *inhabited structure* is defined in Appendix C of the Primer.

Classification	Description	Score
Residential, educational, commercial, or subsistence	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with any of the following purposes: residential, educational, child care, critical assets (e.g., hospitals, fire and rescue, police stations, dams), hotels, commercial, shopping centers, playgrounds, community gathering areas, religious sites, or sites used for subsistence hunting, fishing, and gathering.	**5**
Parks and recreational areas	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with parks, nature preserves, or other recreational uses.	**4**
Agricultural, forestry	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with agriculture or forestry.	3
Industrial or warehousing	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with industrial activities or warehousing.	**2**
No known or recurring activities	◆ There are no known or recurring activities occurring up to two miles from the MRS's boundary or within the MRS's boundary.	1
TYPES OF ACTIVITIES/STRUCTURES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Types of Activities/Structures*** classifications in the space provided.

Within a two mile radius of this site are residential dwellings, including military housing for 753 PTA personnel and their families, a child care center, fire and rescue services, a golf course and other recreational areas on PTA, and industrial buildings (Section 6.8 MMRP RI Report). In addition, adjacent to the MRS/installation boundary is a State Wildlife Management Area.

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Table 9

EHE Module: Ecological and/or Cultural Resources Data Element Table

DIRECTIONS: Below are four classifications of ecological and/or cultural resources and their descriptions. Review the types of resources present and circle the score that corresponds with the ecological and/or cultural resources present on the MRS.

Note: The terms *ecological resources* and *cultural resources* are defined in Appendix C of the Primer.

Classification	Description	Score
Ecological and cultural resources present	◆ There are both ecological and cultural resources present on the MRS.	**5**
Ecological resources present	◆ There are ecological resources present on the MRS.	3
Cultural resources present	◆ There are cultural resources present on the MRS.	3
No ecological or cultural resources present	◆ There are no ecological resources or cultural resources present on the MRS.	0
ECOLOGICAL AND/OR CULTURAL RESOURCES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ecological and/or Cultural Resources*** classification in the space provided.

According to NJDEP's i-Map Landscape Project layer, this MRS contains habitat with at least one occurrence of a state threatened species. In addition, portions of this MRS are designated as sensitive and potentially sensitive, yet disturbed, for cultural and historical resources (Section 6.8 MMRP RI Report).

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Table 10
Determining the EHE Module Rating

DIRECTIONS:

1. From Tables 1–9, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **EHE Module Total** box below.
4. Circle the appropriate range for the **EHE Module Total** below.
5. Circle the **EHE Module Rating** that corresponds to the range selected and record this value in the **EHE Module Rating** box found at the bottom of the table.

Note:
An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
Explosive Hazard Factor Data Elements			
Munitions Type	Table 1	**30**	**40**
Source of Hazard	Table 2	**10**	
Accessibility Factor Data Elements			
Location of Munitions	Table 3	**15**	**20**
Ease of Access	Table 4	**0**	
Status of Property	Table 5	**5**	
Receptor Factor Data Elements			
Population Density	Table 6	**3**	**18**
Population Near Hazard	Table 7	**5**	
Types of Activities/Structures	Table 8	**5**	
Ecological and/or Cultural Resources	Table 9	**5**	
EHE MODULE TOTAL			**78**

EHE Module Total	EHE Module Rating
92 to 100	A
82 to 91	B
71 to 81	**C**
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected Explosive Hazard
EHE MODULE RATING	**B**

Table 11

CHE Module: CWM Configuration Data Element Table

DIRECTIONS: Below are seven classifications of CWM configuration and their descriptions. Circle the scores that correspond with **all** the CWM configurations known or suspected to be present at the MRS.

Note: The terms *CWM/UXO, CWM/DMM, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
CWM, that are either UXO, or explosively configured damaged DMM	The CWM known or suspected of being present at the MRS are: ◆ CWM that are UXO (i.e., CWM/UXO) ◆ Explosively configured CWM that are DMM (i.e., CWM/DMM) that have been damaged.	30
CWM mixed with UXO	◆ The CWM known or suspected of being present at the MRS are undamaged CWM/DMM or CWM not configured as a munition that are commingled with conventional munitions that are UXO.	25
CWM, explosive configuration that are undamaged DMM	◆ The CWM known or suspected of being present at the MRS are explosively configured CWM/DMM that have not been damaged.	20
CWM/DMM, not explosively configured or CWM, bulk container	The CWM known or suspected of being present at the MRS are: ◆ Nonexplosively configured CWM/DMM either damaged or undamaged ◆ Bulk CWM (e.g., ton container).	15
CAIS K941 and CAIS K942	◆ The CWM/DMM known or suspected of being present at the MRS are CAIS K941-toxic gas set M-1 or CAIS K942-toxic gas set M-2/E11.	12
CAIS (chemical agent identification sets)	◆ CAIS, other than CAIS K941 and K942, are known or suspected of being present at the MRS.	10
Evidence of no CWM	◆ Following investigation, the physical evidence indicates that CWM are not present at the MRS, or the historical evidence indicates that CWM are not present at the MRS.	**0**
CWM CONFIGURATION	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the *CWM Configuration* classifications in the space provided.

No known or suspected CWM hazard has been reported at the Inactive Munitions Waste Pit MRS. In addition, there is no evidence of CWM use throughout PTA's history (MMRP SI Report Section 2).

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Tables 12-19

No known or suspected CWM hazard is expected at this site. Therefore, Tables 12 through 19 have been intentionally omitted according to Active Army Guidance.

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Table 20
Determining the CHE Module Rating

DIRECTIONS:

1. From Tables 11–19, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **CHE Module Total** box below.
4. Circle the appropriate range for the **CHE Module Total** below.
5. Circle the **CHE Module Rating** that corresponds to the range selected and record this value in the **CHE Module Rating** box found at the bottom of the table.

Note:
An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
CWM Hazard Factor Data Elements			
CWM Configuration	Table 11	0	0
Sources of CWM	Table 12	-	
Accessibility Factor Data Elements			
Location of CWM	Table 13	-	-
Ease of Access	Table 14	-	
Status of Property	Table 15	-	
Receptor Factor Data Elements			
Population Density	Table 16	-	-
Population Near Hazard	Table 17	-	
Types of Activities/Structures	Table 18	-	
Ecological and/or Cultural Resources	Table 19	-	
CHE MODULE TOTAL			0

CHE Module Total	CHE Module Rating
92 to 100	A
82 to 91	B
71 to 81	C
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected CWM Hazard
CHE MODULE RATING	**No Known or Suspected CWM Hazard**

Table 21

HHE Module: Groundwater Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's groundwater and their comparison values (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant ratios together, including any additional groundwater contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the groundwater, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No groundwater samples were collected from this MRS under the MMRP RI. In addition, groundwater throughout the installation are being addressed under the IRP and will not be included in the Active Army MMRP Program (Installation Action Plan, 2011).			

CHF Scale	CHF Value	Sum The Ratios	
CHF > 100	H (High)	$CHF = \Sigma \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	M (Medium)		
2 > CHF	L (Low)		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the groundwater is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the groundwater to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater receptors at the MRS.

Classification	Description	Value
Identified	There is a threatened water supply well downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer).	H
Potential	There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer).	M
Limited	There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only).	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	
	No Known or Suspected Groundwater MC Hazard	❑

Table 22

HHE Module: Surface Water – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value.** Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF,** use the **CHF Scale** to determine and record the **CHF Value.** If there is no known or suspected MC hazard with human endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No surface water data were collected under the MMRP RI for this MRS.			
CHF Scale	**CHF Value**	**Sum The Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Surface Water (Human Endpoint) MC Hazard ❑

Table 23

HHE Module: Sediment – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with human endpoints present in the sediment, select the box at the bottom of the table.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
No sediment data were collected under the MMRP RI for this MRS.			
CHF Scale	**CHF Value**	**Sum The Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	
	No Known or Suspected Sediment (Human Endpoint) MC Hazard	❑

Table 24

HHE Module: Surface Water – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No surface water data were collected under the MMRP RI for this MRS.			

CHF Scale	CHF Value	Sum the Ratios
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]
100 > CHF > 2	**M (Medium)**	
2 > CHF	**L (Low)**	

CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).	

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Surface Water (Ecological Endpoint) MC Hazard ❑

Table 25

HHE Module: Sediment – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the sediment, select the box at the bottom of the table.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
No sediment data were collected under the MMRP RI for this MRS.			
CHF Scale	**CHF Value**	**Sum the Ratios**	
CHF > 100	**H (High)**	$CHF = \Sigma \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Sediment (Ecological Endpoint) MC Hazard ❑

Table 26

HHE Module: Surface Soil Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface soil and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface soil contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the surface soil, select the box at the bottom of the table.

.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratio
This section was not completed since all of the soil samples collected under the MMRP RI were subsurface soil samples collected from at least 10 feet bgs. Furthermore, MC in soil at depth are being addressed under the IRP and will not be included in the Active Army MMRP Program.			

CHF Scale	CHF Value	Sum the Ratios	
CHF > 100	H (High)	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	M (Medium)		
2 > CHF	L (Low)		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface soil is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface soil has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface soil to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface soil to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface soil to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface soil to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Surface Soil MC Hazard ❑

Table 27

HHE Module: Supplemental Contaminant Hazard Factor Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Only use this table if there are more than five contaminants in any given medium present at the MRS. This is a supplemental table designed to hold information about contaminants that do not fit in the previous tables. Indicate the **media** in which these contaminants are present. Then record all **contaminants**, their **maximum concentrations** and their **comparison values** (from Appendix B of the Primer) in the table below. Calculate and record the **ratio** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** for each medium on the appropriate media-specific tables.

Note: Do not add ratios from different media.

Media	Contaminant	Maximum Concentration	Comparison Value	Ratio

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Table 28

Determining the HHE Module Rating

DIRECTIONS:

1. Record the letter values (H, M, L) for the **Contaminant Hazard**, **Migration Pathway**, and **Receptor Factors** for the media (from Tables 21–26) in the corresponding boxes below.
2. Record the media's three-letter combinations in the **Three-Letter Combination** boxes below (three-letter combinations are arranged from Hs to Ms to Ls).
3. Using the **HHE Ratings** provided below, determine each media's rating (A–G) and record the letter in the corresponding **Media Rating** box below.

Media (Source)	**Contaminant Hazard Factor Value**	**Migratory Pathway Factor Value**	**Receptor Factor Value**	Three-Letter Combination (Hs-Ms-Ls)	Media Rating (A-G)
Groundwater (Table 21)	-	-	-	-	-
Surface Water/Human Endpoint (Table 22)	-	-	-	-	-
Sediment/Human Endpoint (Table 23)	-	-	-	-	-
Surface Water/Ecological Endpoint (Table 24)	-	-	-	-	-
Sediment/Ecological Endpoint (Table 25)	-	-	-	-	-
Surface Soil (Table 26)	-	-	-	-	-

DIRECTIONS (cont.):

4. Select the single highest Media Rating (A is highest; G is lowest) and enter the letter in the **HHE Module Rating** box.

Note:

An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more media, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

HHE MODULE RATING	-

HHE Ratings (for reference only)

Combination	**Rating**
HHH	A
HHM	B
HHL	C
HMM	
HML	D
MMM	
HLL	E
MML	
MLL	F
LLL	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected MC Hazard

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Table 29
MRS Priority

DIRECTIONS: In the chart below, circle the letter **rating** for each module recorded in Table 10 (EHE), Table 20 (CHE), and Table 28 (HHE). Circle the corresponding numerical **priority** for each module. If information to determine the module rating is not available, choose the appropriate alternative module rating. The MRS Priority is the single highest priority; record this relative priority in the **MRS Priority or Alternative MRS Rating** at the bottom of the table.

Note: An MRS assigned Priority 1 has the highest relative priority; an MRS assigned Priority 8 has the lowest relative priority. Only an MRS with CWM known or suspected to be present can be assigned Priority 1; an MRS that has CWM known or suspected to be present cannot be assigned Priority 8.

EHE Rating	Priority	CHE Rating	Priority	HHE Rating	Priority
		A	**1**		
A	**2**	**B**	**2**	**A**	**2**
B	3	**C**	**3**	B	3
C	**4**	**D**	**4**	**C**	**4**
D	**5**	**E**	**5**	D	5
E	**6**	**F**	**6**	**E**	**6**
F	**7**	**G**	**7**	**F**	**7**
G	**8**			**G**	**8**
Evaluation Pending		Evaluation Pending		Evaluation Pending	
No Longer Required		No Longer Required		No Longer Required	
No Known or Suspected Explosive Hazard		**No Known or Suspected CWM Hazard**		**No Known or Suspected MC Hazard**	
MRS PRIORITY or ALTERNATIVE MRS RATING				**4**	

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INACTIVE MUNITIONS WASTE PIT – OFF-POST MRS

Table A
MRS Background Information

DIRECTIONS: Record the background information below for the Munitions Response Site (MRS) to be evaluated. Much of this information is available from Service and DoD databases. If the MRS is located on a FUDS property, the suitable FUDS property information should be substituted. In the **MRS Summary**, briefly describe the UXO, DMM, or MC that are known or suspected to be present, the exposure setting (the MRS's physical environment), any other incidental nonmunitions-related contaminants (e.g., benzene, trichloroethylene) found at the MRS, and any potentially exposed human and ecological receptors. If possible, include a map of the MRS.

Munitions Response Site Name/AEDB-R #: Inactive Munitions Waste Pit – Off-Post (PICA-014-R-01)

Component: Army

Installation/Property Name: Picatinny Arsenal, NJ

Location (City, County, State): Morris County, New Jersey

Site Name/Project Name (Project No.): Inactive Munitions Waste Pit – Off-Post / Picatinny Arsenal RI (038160030000)

Date Information Entered/Updated: November 2013

Preparer's Name/Organization/Phone: Layne Young, ARCADIS-US, Inc (410.332.4806)

Point of Contact (Name/Phone): Nancy Flaherty (410.779.2796)

Project Phase (check only one):

❑ PA	❑ SI	✠ RI	❑ FS	❑ RD
❑ RA-C	❑ RIP	❑ RA-O	❑ RC	❑ LTM

Media Evaluated (check all that apply):

❑ Groundwater	❑ Sediment (human receptor)
❑ Surface soil	❑ Surface Water (ecological receptor)
❑ Sediment (ecological receptor)	❑ Surface Water (human receptor)

MRS Summary:

MRS Description: Describe the munitions-related activities that occurred at the installation, the dates of operation, and the Unexploded Ordnance (UXO), Discarded Military Munitions (DMM), or Munitions Constituents (MC) known or suspected to be present.

This Munitions Response Site (MRS), located in Jefferson Township on the Picatinny Arsenal (PTA) border, consists of all off-post property that falls within the surface danger zone (SDZ) (1,250 foot radius) from the center of the Inactive Munitions Waste Pit MRS. The Inactive Munitions Waste Pit MRS was used from 1955 to the mid-1980s for the testing and storage of munitions and explosives. (*Final Historical Records Review, Picatinny Arsenal, New Jersey,* November 2006).

During the MMRP RI investigation only munitions debris (MD) were found including MD from a 37mm projectile, as well as unidentified fragments. Therefore, MEC exposure pathways are incomplete.

MC Summary

For the military munitions response program (MMRP) RI, biased MC sampling was proposed for this MRS; however, biased MC sampling was not required since no munitions or explosives of concern (MEC) were found. Therefore, MC exposure pathways are incomplete.

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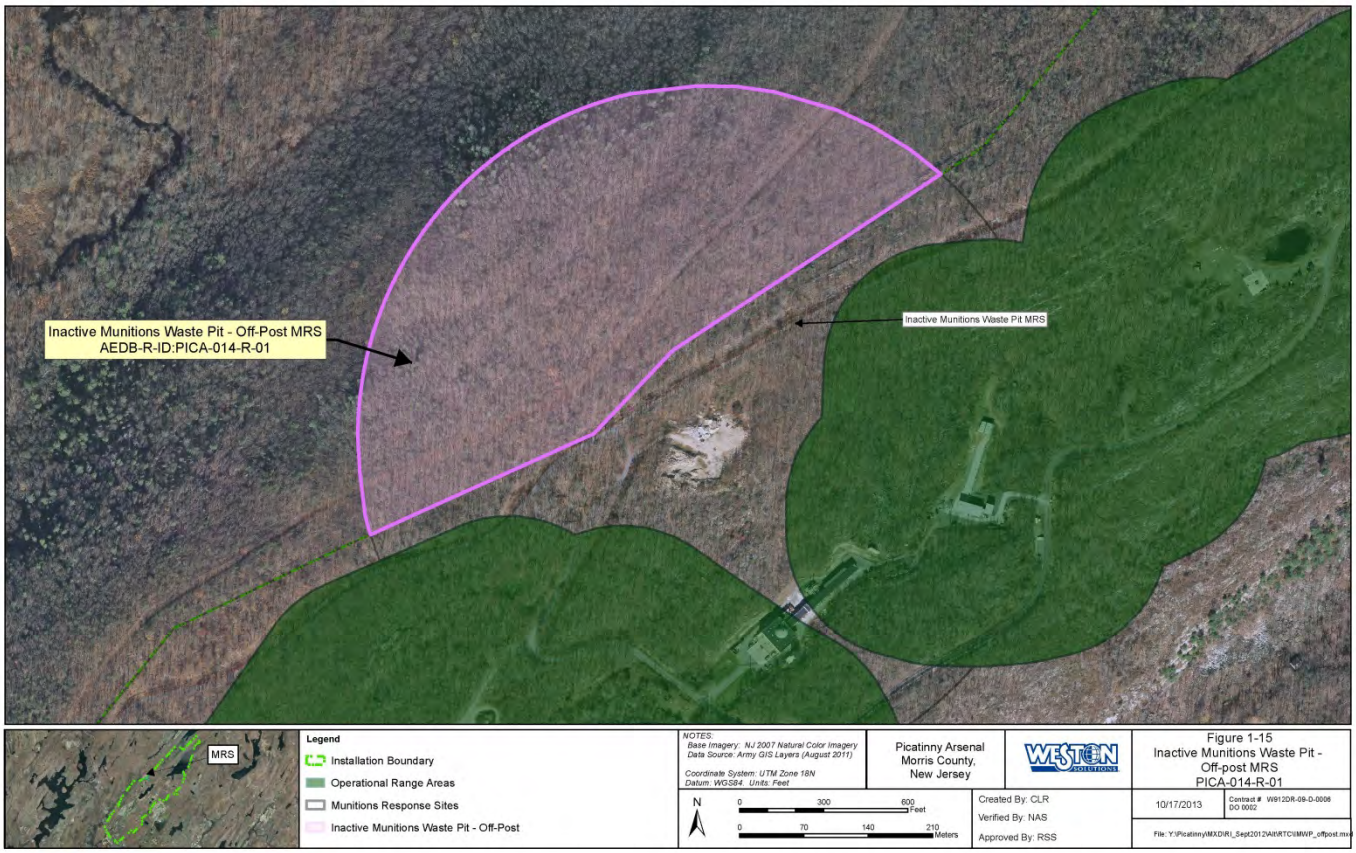
Inactive Munitions Waste Pit - Off-Post MRS
AEDB-R-ID:PICA-014-R-01
Inactive Munitions Waste Pit MRS
MRS
Legend
Installation Boundary
Operational Range Areas
Munitions Response Sites
Inactive Munitions Waste Pit - Off-Post
NOTES:
Base Imagery: NJ 2007 Natural Color Imagery
Data Source: Army GIS Layers (August 2011)
Coordinate System: UTM Zone 18N
Datum: WGS84. Units: Feet
N
0 300 600 Feet
0 70 140 210 Meters
Picatinny Arsenal
Morris County,
New Jersey
WESTON SOLUTIONS
Figure 1-15
Inactive Munitions Waste Pit -
Off-post MRS
PICA-014-R-01
Created By: CLR
Verified By: NAS
Approved By: RSS
10/17/2013
Contract # W912DR-09-D-0006
DO 0002
File: Y:\Picatinny\MXD\RI_Sept2012\Alt\RTC\IMWP_offpost.mxd

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Table 1

EHE Module: Munitions Type Data Element Table

DIRECTIONS: Below are 11 classifications of munitions and their descriptions. Circle the scores that correspond with **all** the munitions types known or suspected to be present at the MRS.

Note: The terms *practice munitions, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Sensitive	◆ UXO that are considered most likely to function upon any interaction with exposed persons (e.g., submunitions, 40mm high-explosive [HE] grenades, white phosphorus [WP] munitions, high-explosive antitank [HEAT] munitions, and practice munitions with sensitive fuzes, but excluding all other practice munitions). ◆ Hand grenades containing energetic filler. ◆ Bulk primary explosives, or mixtures of these with environmental media, such that the mixture poses an explosive hazard.	30
High explosive (used or damaged)	◆ UXO containing a high-explosive filler (e.g., RDX, Composition B), that are not considered "sensitive." ◆ DMM containing a high-explosive filler that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	25
Pyrotechnic (used or damaged)	◆ UXO containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades). ◆ DMM containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades) that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	20
High explosive (unused)	◆ DMM containing a high-explosive filler that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	15
Propellant	◆ UXO containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor) that are: ▪ Damaged by burning or detonation ▪ Deteriorated to the point of instability.	15
Bulk secondary high explosives, pyrotechnics, or propellant	◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM that are bulk secondary high explosives, pyrotechnic compositions, or propellant (not contained in a munitions), or mixtures of these with environmental media such that the mixture poses an explosive hazard.	10
Pyrotechnic (not used or damaged)	◆ DMM containing a pyrotechnic filler (i.e., red phosphorus), other than white phosphorus filler, that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	10
Practice	◆ UXO that are practice munitions that are not associated with a sensitive fuze. ◆ DMM that are practice munitions that are not associated with a sensitive fuze and that have not: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	5
Riot control	◆ UXO or DMM containing a riot control agent filler (e.g., tear gas).	3
Small arms	◆ Used munitions or DMM that are categorized as small arms ammunition. (Physical evidence or historical evidence that no other types of munitions [e.g., grenades, subcaliber training rockets, demolition charges] were used or are present on the MRS is required for selection of this category.)	2
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	**0**
MUNITIONS TYPE	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Munitions Type*** classifications in the space provided.

The Inactive Munitions Waste Pit – Off-Post MRS consists of the SDZ associated with the Inactive Munitions Waste Pit MRS. During the MMRP RI, only MD, no MPPEH, were found on the Inactive Munitions Waste Pit – Off-Post MRS (Section 6.9 MMRP RI Report).

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Tables 2-9

No MPPEH were found at this MRS during the MMRP RI. Therefore, Tables 2 through 9 have been intentionally omitted according to Active Army Guidance.

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Table 10
Determining the EHE Module Rating

DIRECTIONS:

1. From Tables 1–9, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **EHE Module Total** box below.
4. Circle the appropriate range for the **EHE Module Total** below.
5. Circle the **EHE Module Rating** that corresponds to the range selected and record this value in the **EHE Module Rating** box found at the bottom of the table.

Note:

An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
Explosive Hazard Factor Data Elements			
Munitions Type	Table 1	**0**	--
Source of Hazard	Table 2	--	
Accessibility Factor Data Elements			
Location of Munitions	Table 3	--	--
Ease of Access	Table 4	--	
Status of Property	Table 5	--	
Receptor Factor Data Elements			
Population Density	Table 6	--	--
Population Near Hazard	Table 7	--	
Types of Activities/Structures	Table 8	--	
Ecological and/or Cultural Resources	Table 9	--	
EHE MODULE TOTAL			--

EHE Module Total	EHE Module Rating
92 to 100	A
82 to 91	B
71 to 81	C
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected Explosive Hazard
EHE MODULE RATING	**No Known or Suspected Explosive Hazard**

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Table 11

CHE Module: CWM Configuration Data Element Table

DIRECTIONS: Below are seven classifications of CWM configuration and their descriptions. Circle the scores that correspond with **all** the CWM configurations known or suspected to be present at the MRS.

Note: The terms *CWM/UXO, CWM/DMM, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
CWM, that are either UXO, or explosively configured damaged DMM	The CWM known or suspected of being present at the MRS are: ◆ CWM that are UXO (i.e., CWM/UXO) ◆ Explosively configured CWM that are DMM (i.e., CWM/DMM) that have been damaged.	30
CWM mixed with UXO	◆ The CWM known or suspected of being present at the MRS are undamaged CWM/DMM or CWM not configured as a munition that are commingled with conventional munitions that are UXO.	25
CWM, explosive configuration that are undamaged DMM	◆ The CWM known or suspected of being present at the MRS are explosively configured CWM/DMM that have not been damaged.	20
CWM/DMM, not explosively configured or CWM, bulk container	The CWM known or suspected of being present at the MRS are: ◆ Nonexplosively configured CWM/DMM either damaged or undamaged ◆ Bulk CWM (e.g., ton container).	15
CAIS K941 and CAIS K942	◆ The CWM/DMM known or suspected of being present at the MRS are CAIS K941-toxic gas set M-1 or CAIS K942-toxic gas set M-2/E11.	12
CAIS (chemical agent identification sets)	◆ CAIS, other than CAIS K941 and K942, are known or suspected of being present at the MRS.	10
Evidence of no CWM	◆ Following investigation, the physical evidence indicates that CWM are not present at the MRS, or the historical evidence indicates that CWM are not present at the MRS.	**0**
CWM CONFIGURATION	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the *CWM Configuration* classifications in the space provided.

No known or suspected CWM hazard has been reported at this MRS. In addition, there is no evidence of CWM use throughout PTA's history (MMRP SI Report Section 2).

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Tables 12-19

No known or suspected CWM hazard is expected at this site. Therefore, Tables 12 through 19 have been intentionally omitted according to Active Army Guidance.

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Table 20
Determining the CHE Module Rating

DIRECTIONS:

1. From Tables 11–19, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **CHE Module Total** box below.
4. Circle the appropriate range for the **CHE Module Total** below.
5. Circle the **CHE Module Rating** that corresponds to the range selected and record this value in the **CHE Module Rating** box found at the bottom of the table.

Note:
An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
CWM Hazard Factor Data Elements			
CWM Configuration	Table 11	0	0
Sources of CWM	Table 12	--	
Accessibility Factor Data Elements			
Location of CWM	Table 13	--	--
Ease of Access	Table 14	--	
Status of Property	Table 15	--	
Receptor Factor Data Elements			
Population Density	Table 16	--	--
Population Near Hazard	Table 17	--	
Types of Activities/Structures	Table 18	--	
Ecological and/or Cultural Resources	Table 19	--	
CHE MODULE TOTAL			--

CHE Module Total	CHE Module Rating
92 to 100	A
82 to 91	B
71 to 81	C
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected CWM Hazard
CHE MODULE RATING	**No Known or Suspected CWM Hazard**

Table 21

HHE Module: Groundwater Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's groundwater and their comparison values (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant ratios together, including any additional groundwater contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the groundwater, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No groundwater samples were collected from this MRS under the MMRP RI.			
CHF Scale	**CHF Value**	**Sum The Ratios**	
CHF > 100	**H (High)**	$CHF = \Sigma \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the groundwater is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the groundwater to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater receptors at the MRS.

Classification	Description	Value
Identified	There is a threatened water supply well downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer).	H
Potential	There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer).	M
Limited	There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only).	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Groundwater MC Hazard ☐

Table 22

HHE Module: Surface Water – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value.** Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF,** use the **CHF Scale** to determine and record the **CHF Value.** If there is no known or suspected MC hazard with human endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No MC samples were collected under the MMRP RI.			
CHF Scale	**CHF Value**	**Sum The Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Surface Water (Human Endpoint) MC Hazard ☐

Table 23

HHE Module: Sediment – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with human endpoints present in the sediment, select the box at the bottom of the table.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
No MC samples were collected under the MMRP RI.			
CHF Scale	**CHF Value**	**Sum The Ratios**	
CHF > 100	**H (High)**	**CHF = Σ** [Maximum Concentration of Contaminant] / [Comparison Value for Contaminant]	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Sediment (Human Endpoint) MC Hazard ☐

Table 24

HHE Module: Surface Water – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
No MC samples were collected under the MMRP RI.			

CHF Scale	CHF Value	Sum the Ratios
CHF > 100	H (High)	$CHF = \Sigma \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$
100 > CHF > 2	M (Medium)	
2 > CHF	L (Low)	

CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).	

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Surface Water (Ecological Endpoint) MC Hazard ☐

Table 25

HHE Module: Sediment – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the sediment, select the box at the bottom of the table.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
No MC samples were collected under the MMRP RI.			
CHF Scale	**CHF Value**	**Sum the Ratios**	
CHF > 100	**H (High)**	$CHF = \Sigma \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Sediment (Ecological Endpoint) MC Hazard ☐

Table 26

HHE Module: Surface Soil Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface soil and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface soil contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the surface soil, select the box at the bottom of the table.

.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratio
No MC samples were collected under the MMRP RI.			

CHF Scale	CHF Value	Sum the Ratios	
CHF > 100	H (High)	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	M (Medium)		
2 > CHF	L (Low)		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface soil is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface soil has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface soil to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface soil to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface soil to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface soil to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	

No Known or Suspected Surface Soil MC Hazard ☑

Table 27

HHE Module: Supplemental Contaminant Hazard Factor Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Only use this table if there are more than five contaminants in any given medium present at the MRS. This is a supplemental table designed to hold information about contaminants that do not fit in the previous tables. Indicate the **media** in which these contaminants are present. Then record all **contaminants**, their **maximum concentrations** and their **comparison values** (from Appendix B of the Primer) in the table below. Calculate and record the **ratio** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** for each medium on the appropriate media-specific tables.

Note: Do not add ratios from different media.

Media	Contaminant	Maximum Concentration	Comparison Value	Ratio

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Table 28

Determining the HHE Module Rating

DIRECTIONS:

1. Record the letter values (H, M, L) for the **Contaminant Hazard**, **Migration Pathway**, and **Receptor Factors** for the media (from Tables 21–26) in the corresponding boxes below.
2. Record the media's three-letter combinations in the **Three-Letter Combination** boxes below (three-letter combinations are arranged from Hs to Ms to Ls).
3. Using the **HHE Ratings** provided below, determine each media's rating (A–G) and record the letter in the corresponding **Media Rating** box below.

Media (Source)	**Contaminant Hazard Factor Value**	**Migratory Pathway Factor Value**	**Receptor Factor Value**	Three-Letter Combination (Hs-Ms-Ls)	Media Rating (A-G)
Groundwater (Table 21)	-	-	-	-	-
Surface Water/Human Endpoint (Table 22)	-	-	-	-	-
Sediment/Human Endpoint (Table 23)	-	-	-	-	-
Surface Water/Ecological Endpoint (Table 24)	-	-	-	-	-
Sediment/Ecological Endpoint (Table 25)	-	-	-	-	-
Surface Soil (Table 26)	-	-	-	-	-

DIRECTIONS (cont.):

4. Select the single highest Media Rating (A is highest; G is lowest) and enter the letter in the **HHE Module Rating** box.

Note:

An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more media, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

HHE MODULE RATING	-

HHE Ratings (for reference only)

Combination	**Rating**
HHH	A
HHM	B
HHL	C
HMM	
HML	D
MMM	
HLL	E
MML	
MLL	F
LLL	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected MC Hazard

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Table 29
MRS Priority

DIRECTIONS: In the chart below, circle the letter **rating** for each module recorded in Table 10 (EHE), Table 20 (CHE), and Table 28 (HHE). Circle the corresponding numerical **priority** for each module. If information to determine the module rating is not available, choose the appropriate alternative module rating. The MRS Priority is the single highest priority; record this relative priority in the **MRS Priority or Alternative MRS Rating** at the bottom of the table.

Note: An MRS assigned Priority 1 has the highest relative priority; an MRS assigned Priority 8 has the lowest relative priority. Only an MRS with CWM known or suspected to be present can be assigned Priority 1; an MRS that has CWM known or suspected to be present cannot be assigned Priority 8.

EHE Rating	Priority	CHE Rating	Priority	HHE Rating	Priority
		A	**1**		
A	**2**	**B**	**2**	A	2
B	**3**	**C**	**3**	B	3
C	**4**	**D**	**4**	C	4
D	**5**	**E**	**5**	D	5
E	**6**	**F**	**6**	**E**	**6**
F	**7**	**G**	**7**	**F**	**7**
G	**8**			**G**	**8**
Evaluation Pending		Evaluation Pending		Evaluation Pending	
No Longer Required		No Longer Required		No Longer Required	
No Known or Suspected Explosive Hazard		**No Known or Suspected CWM Hazard**		**No Known or Suspected MC Hazard**	
MRS PRIORITY or ALTERNATIVE MRS RATING				**No Known or Suspected Explosive, CWM, or MC Hazard**	

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APPENDIX Q

RISK ASSESSMENT SUPPORTING TABLES

APPENDIX Q

RAGS Part D Tables
and
ProUCL Output for
Former Operational Areas MRS

APPENDIX Q

RAGS Part D Tables

TABLE 1
SELECTION OF EXPOSURE PATHWAYS - FORMER OPERATIONAL AREAS MUNITIONS RESPONSE SITE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe	Medium	Exposure Medium	Exposure Point	Human Receptor Population	Receptor Age	Exposure Route	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
Current/Future	Soil	Surface Soil	Workplace	Outdoor Site Worker	Adult	Ingestion	Quantitative	The Former Operational Areas Munitions Response Site (MRS) contains numerous buildings used for manufacturing, storage, testing, research and development, administration, and recreation. Outdoor site workers, including PTA personnel or contractors who work outside of the buildings and structures throughout the Former Operational Areas, may contact constituents in surface soil.
						Dermal contact	Quantitative	
			Workplace	Indoor Site Worker	Adult	Ingestion	None	Occupied buildings are located within the Former Operational Areas. Indoor site workers, including PTA personnel, may contact surface soil that is tracked indoors and settles on surfaces as dust (EPA, 2002b). However, because this exposure would be a fraction of that of the outdoor site worker, the potential for exposure of an indoor site worker was not evaluated.
						Dermal contact	None	Not applicable (EPA, 2002b).
			Excavation	Construction/Utility Worker	Adult	Ingestion	Quantitative	Underground utilities are located throughout the Former Operational Areas. Short-term intrusive work may be required for utility installation, maintenance, or repair. Construction/utility workers may contact constituents in surface soil.
						Dermal contact	Quantitative	
			Undeveloped or Recreational Areas	Recreationist	Adult	Ingestion	Quantitative	The majority of the Former Operational Areas MRS is undeveloped and accessible to recreationists. Recreational fields are also present on the site. PTA personnel and/or their immediate family members who reside in base housing may contact constituents in surface soil while hunting or hiking in undeveloped areas or while using designated recreational areas.
						Dermal contact	Quantitative	
					Child (0-6 years old)	Ingestion	Quantitative	
						Dermal contact	Quantitative	
		Outdoor Air - Particulates	Workplace	Outdoor Site Worker	Adult	Inhalation	Quantitative	Outdoor site workers, including PTA personnel or contractors who work outside of the buildings and structures throughout the Former Operational Areas, may inhale wind-generated respirable particulates emitted from surface soil to outdoor air.
			Workplace	Indoor Site Worker	Adult	Inhalation	None	Not applicable. Indoor site workers are assumed to have minimal exposure to outdoor air.
			Excavation/Trench	Construction/Utility Worker	Adult	Inhalation	Quantitative	Construction/utility workers performing short-term intrusive work on the site may inhale wind-generated constituents in surface soil.
			Undeveloped or Recreational Areas	Recreationist	Adult	Inhalation	Quantitative	PTA personnel and/or their immediate family members who reside in base housing may inhale wind-generated respirable particulates emitted from surface soil to outdoor air while hunting or hiking in undeveloped areas or while using designated recreational areas.
					Child (0-6 years old)	Inhalation	Quantitative	
Future	Soil	Surface Soil	Construction Site	Construction Worker	Adult	Ingestion	Quantitative	Short-term and long-term development and redevelopment is planned for the Former Operational Areas MRS. Future construction workers may contact constituents in surface soil.
						Dermal contact	Quantitative	
			Residence	Resident	Adult	Ingestion	Quantitative	While future residential development is not planned for the Former Operational Areas MRS, a hypothetical residential exposure scenario was evaluated. Hypothetical future residents (i.e., PTA personnel and their immediate family members who reside in base housing) may contact constituents in surface soil.
						Dermal contact	Quantitative	
					Child (0-6 years old)	Ingestion	Quantitative	
						Dermal contact	Quantitative	
		Outdoor Air - Particulates	Construction Site	Construction Worker	Adult	Inhalation	Quantitative	Mechanical erosion of surface soil during future site development/redevelopment may generate fugitive dust that may be inhaled by construction workers.
			Residence	Resident	Adult	Inhalation	Quantitative	Hypothetical future residents may inhale wind-generated respirable particulates emitted from surface soil to outdoor air.
					Child (0-6 years old)	Inhalation	Quantitative	

TABLE 2
SELECTION OF CONSTITUENTS OF POTENTIAL CONCERN IN FORMER OPERATIONAL AREAS - SURFACE SOIL
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Current/Future
Exposure Unit:	Former Operational Areas
Exposure Medium:	Surface Soil

Exposure Point	CAS #	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Location of Maximum	Range of Detection Limits	PTA Specific Background Concentration ^	Concentration Used for Screening	Screening Toxicity Value	Basis	COPC Flag [Y/N]	Rationale for Selection or Deletion
Former Operational Areas	121-14-2	2,4-Dinitrotoluene	0.026 J	0.026 J	mg/kg	1 / 78	PTA-2011-FOAG-SS74	0.026 - 1.0	Not applicable	0.026 J	0.70	c	N	2
	55-63-0	Nitroglycerin	0.24 J	0.24 J	mg/kg	1 / 78	PTA-2011-FOAG-SS18	0.24 - 1.0	Not applicable	0.24 J	0.61	n	N	2
	479-45-8	Tetryl	0.071 J	0.32 J	mg/kg	3 / 78	PTA-2011-FOAG-SS34	0.071 - 1.0	Not applicable	0.32 J	24	n	N	2
	7429-90-5	Aluminum	2,900	38,500	mg/kg	90 / 90	PTA-2011-FOAG-SS23	Not applicable	20,500	38,500	7,700	n	Y	1
	7440-36-0	Antimony	0.48 J	4.5	mg/kg	28 / 90	PTA-2012-FOAG-SS49	0.59 - 11	0.96	4.5	3.1	n	Y	1
	7440-39-3	Barium	11 J	1,900 J	mg/kg	90 / 90	PTA-2011-FOAG-SS71	Not applicable	157	1,900 J	1,500	n	Y	1
	7440-43-9	Cadmium	0.05 J	19 J	mg/kg	80 / 90	PTA-2011-FOAG-SS36	0.097 - 0.55	0.66	19 J	7.0	n	Y	1
	7440-50-8	Copper	5.2	130 J	mg/kg	90 / 90	PTA-2011-FOAG-SS36	Not applicable	35.5	130 J	310	n	N	2
	7439-92-1	Lead	10	250	mg/kg	90 / 90	PTA-2012-FOAG-SS53	Not applicable	74.6	250	400	L	N	2
	7439-96-5	Manganese	18 J	37,000	mg/kg	103 / 103	PTA-2012-FOAG-SS523	Not applicable	1,250	37,000	180	n	Y	1
	7440-24-6	Strontium	2	565 J	mg/kg	90 / 90	PTA-2011-FOAG-SS23	Not applicable	50	565 J	4,700	n	N	2
	7440-66-6	Zinc	19 J	990 J	mg/kg	90 / 90	PTA-2011-FOAG-SS20	Not applicable	77	990 J	2,300	n	N	2

Notes

COPC = Constituent of Potential Concern
^ = Background levels for metals in soil were established for PTA under the IRP (IT Corporation, 2002).
J = Estimated concentration

n = noncancer
c = cancer
L = USEPA screening level for lead in soil

Reason Codes:
1 = Maximum detected concentration exceeds screening toxicity value.
2 = Maximum detected concentration is less than screening toxicity value.
3 = Chemical is an essential nutrient.
4 = No screening toxicity value is available.

Screening toxicity values are the lower of the EPA Regional Screening Levels for Resident Soil (USEPA, 2013a) and NJDEP Residential Direct Contact Soil Cleanup Criteria (NJDEP, 2012).
Screening toxicity values based on a non-cancer toxic endpoint were divided by 10 (target non-cancer hazard quotient of 0.1) to account for potential additive effects.

TABLE 3

EXPOSURE POINT CONCENTRATION SUMMARY FOR FORMER OPERATIONAL AREAS - SURFACE SOIL

BASELINE HUMAN HEALTH RISK ASSESSMENT

PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Current/Future
Exposure Unit:	Former Operational Areas
Exposure Medium:	Surface Soil

Exposure Point	Constituent of Potential Concern	Units	Arithmetic Mean [1]	95% UCL Concentration [2] (Distribution)	Maximum Concentration (Qualifier)	Exposure Point Concentration			
						Value	Units	Statistic	Rationale
Former Operational Areas	Aluminum	mg/kg	13,019	14,369 (G)	38,500	14,369	mg/kg	95% Approximate Gamma UCL	95% UCL calculated by ProUCL v4.1.01.
	Antimony	mg/kg	1.08	0.88 (NP)	4.5	0.88	mg/kg	95% KM (t) UCL	Potential UCL to use from ProUCL v4.1.01.
	Barium	mg/kg	179	350 (NP)	1,900 J	350	mg/kg	95% Chebyshev (Mean, Sd) UCL	95% UCL calculated by ProUCL v4.1.01.
	Cadmium	mg/kg	0.91	1.86 (NP)	19 J	1.86	mg/kg	95% KM (Chebyshev) UCL	Potential UCL to use from ProUCL v4.1.01.
	Manganese	mg/kg	2,420	5,156 (NP)	37,000	5,156	mg/kg	95% Chebyshev (Mean, Sd) UCL	95% UCL calculated by ProUCL v4.1.01.

Notes

[1] The arithmetic mean of detected concentrations only is presented.

[2] The 95% Upper Confidence Level (UCL) on the arithmetic average concentration (*i.e.,* the 95% UCL concentration) was calculated using ProUCL version 4.1.01.

N/A = Not Applicable.

Data Distribution Codes:

G = Gamma or Approximate Gamma

NP = Nonparametric; data follow no discernible distribution

Qualifier Codes:

J - indicates an estimated value

TABLE 4.1.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Ingestion	Outdoor Site Worker	Adult	Workplace	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	1.00E-06	kg/mg	- -	CS x CF x IR-S x FI x EF x ED x 1/BW x 1/AT
				IR-S	Ingestion Rate of Soil	100	mg/day	EPA, 2002b	
				FI	Fraction Ingested	1	unitless	(2)	
				EF	Exposure Frequency	225	days/year	EPA, 2002b	
				ED	Exposure Duration	25	years	EPA, 2002b	
				BW	Body Weight	70	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	9,125	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	
Dermal	Outdoor Site Worker	Adult	Workplace	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Dermally Absorbed Dose (DAD) (mg/kg-day) =
				DA_{event}	Absorbed dose per event	Chemical-specific	mg/cm^2-event	EPA, 2004	DA_{event} x EF x ED x EV x SA x 1/BW x 1/AT
				CF	Conversion Factor	1.00E-06	kg/mg	- -	where:
				SA	Skin Surface Area Available for Contact	3,300	cm^2	EPA, 2002b	Absorbed Dose per Event (DA_{event}) (mg/cm^2-event) =
				AF	Soil to Skin Adherence Factor	0.2	mg/cm^2-event	EPA, 2002b	CS x CF x AF x ABS-d
				ABS-d	Dermal Absorption Fraction	Chemical-specific	unitless	EPA, 2004	
				EV	Event Frequency	1	events/day	EPA, 2002b	
				EF	Exposure Frequency	225	days/year	EPA, 2002b	
				ED	Exposure Duration	25	years	EPA, 2002b	
				BW	Body Weight	70	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	9,125	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	

Notes
(1) Information regarding modeled intake development can be found in Section 9.1.1.2.3, Estimates of COPC Intake/Exposure.
(2) Professional judgment.

TABLE 4.1.CTE
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Ingestion	Outdoor Site Worker	Adult	Workplace	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	1.00E-06	kg/mg	- -	CS x CF x IR-S x FI x EF x ED x 1/BW x 1/AT
				IR-S	Ingestion Rate of Soil	100	mg/day	EPA, 2002b	
				FI	Fraction Ingested	1	unitless	(2)	
				EF	Exposure Frequency	225	days/year	EPA, 2002b	
				ED	Exposure Duration	9	years	EPA, 2004	
				BW	Body Weight	70	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	3,285	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	
Dermal	Outdoor Site Worker	Adult	Workplace	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Dermally Absorbed Dose (DAD) (mg/kg-day) =
				DA_{event}	Absorbed dose per event	Chemical-specific	mg/cm^2-event	EPA, 2004	DA_{event} x EF x ED x EV x SA x 1/BW x 1/AT
				CF	Conversion Factor	1.00E-06	kg/mg	- -	where:
				SA	Skin Surface Area Available for Contact	3,300	cm^2	EPA, 2002b	Absorbed Dose per Event (DA_{event}) (mg/cm^2-event) =
				AF	Soil to Skin Adherence Factor	0.04	mg/cm^2-event	EPA, 2004	CS x CF x AF x ABS-d
				ABS-d	Dermal Absorption Fraction	Chemical-specific	unitless	EPA, 2004	
				EV	Event Frequency	1	events/day	EPA, 2002b	
				EF	Exposure Frequency	225	days/year	EPA, 2002b	
				ED	Exposure Duration	9	years	EPA, 2004	
				BW	Body Weight	70	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	3,285	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	

Notes
(1) Information regarding modeled intake development can be found in Section 9.1.1.2.3, Estimates of COPC Intake/Exposure.
(2) Professional judgment.

TABLE 4.2.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Outdoor Air

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Inhalation	Outdoor Site Worker	Adult	Workplace	CA	Chemical Concentration in Air	Chemical-specific	$\mu g/m^3$	See Table 9-3	Exposure Concentration (EC) ($\mu g/m^3$) =
				ET	Exposure Time	8	hours/day	(2)	(CA x ET x EF x ED)/AT
				EF	Exposure Frequency	225	days/year	EPA, 2002b	
				ED	Exposure Duration	25	years	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	219,000	hours	EPA, 2009	
				AT-C	Averaging Time (Cancer)	613,200	hours	EPA, 2009	

Notes
(1) Information regarding modeled intake development can be found in Section 9.1.1.2.3, Estimates of COPC Intake/Exposure, and Table 9-3.
(2) Professional judgment.

TABLE 4.2.CTE
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Outdoor Air

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Inhalation	Outdoor Site Worker	Adult	Workplace	CA	Chemical Concentration in Air	Chemical-specific	$\mu g/m^3$	See Table 9-3	Exposure Concentration (EC) ($\mu g/m^3$) =
				ET	Exposure Time	8	hours/day	(2)	(CA x ET x EF x ED)/AT
				EF	Exposure Frequency	225	days/year	EPA, 2002b	
				ED	Exposure Duration	9	years	EPA, 2004	
				AT-N	Averaging Time (Non-Cancer)	78,840	hours	EPA, 2009	
				AT-C	Averaging Time (Cancer)	613,200	hours	EPA, 2009	

Notes
(1) Information regarding modeled intake development can be found in Section 9.1.1.2.3, Estimates of COPC Intake/Exposure, and Table 9-3.
(2) Professional judgment.

TABLE 4.3.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Ingestion	Construction/Utility Worker	Adult	Excavation	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	1.00E-06	kg/mg	- -	CS x CF x IR-S x FI x EF x ED x 1/BW x 1/AT
				IR-S	Ingestion Rate of Soil	330	mg/day	EPA, 2002b	
				FI	Fraction Ingested	1	unitless	(2)	
				EF	Exposure Frequency	125	days/year	(2)	
				ED	Exposure Duration	1	years	(2)	
				BW	Body Weight	70	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	365	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	
Dermal	Construction/Utility Worker	Adult	Excavation	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Dermally Absorbed Dose (DAD) (mg/kg-day) =
				DA_{event}	Absorbed dose per event	Chemical-specific	mg/cm^2-event	EPA, 2004	DA_{event} x EF x ED x EV x SA x 1/BW x 1/AT
				CF	Conversion Factor	1.00E-06	kg/mg	- -	where:
				SA	Skin Surface Area Available for Contact	3,300	cm^2	EPA, 2002b	Absorbed Dose per Event (DA_{event}) (mg/cm^2-event) =
				AF	Soil to Skin Adherence Factor	0.3	mg/cm^2-event	EPA, 2002b	CS x CF x AF x ABS-d
				ABS-d	Dermal Absorption Fraction	Chemical-specific	unitless	EPA, 2004	
				EV	Event Frequency	1	events/day	EPA, 2002b	
				EF	Exposure Frequency	125	days/year	(2)	
				ED	Exposure Duration	1	years	(2)	
				BW	Body Weight	70	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	365	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	

Notes
(1) Information regarding modeled intake development can be found in Section 9.1.1.2.3, Estimates of COPC Intake/Exposure
(2) Professional judgment.

TABLE 4.3.CTE
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Ingestion	Construction/Utility Worker	Adult	Excavation	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	1.00E-06	kg/mg	- -	CS x CF x IR-S x FI x EF x ED x 1/BW x 1/AT
				IR-S	Ingestion Rate of Soil	330	mg/day	EPA, 2002b	
				FI	Fraction Ingested	1	unitless	(2)	
				EF	Exposure Frequency	90	days/year	(2)	
				ED	Exposure Duration	1	years	(2)	
				BW	Body Weight	70	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	365	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	
Dermal	Construction/Utility Worker	Adult	Excavation	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Dermally Absorbed Dose (DAD) (mg/kg-day) =
				DA_{event}	Absorbed dose per event	Chemical-specific	mg/cm^2-event	EPA, 2004	DA_{event} x EF x ED x EV x SA x 1/BW x 1/AT
				CF	Conversion Factor	1.00E-06	kg/mg	- -	where:
				SA	Skin Surface Area Available for Contact	3,300	cm^2	EPA, 2002b	Absorbed Dose per Event (DA_{event}) (mg/cm^2-event) =
				AF	Soil to Skin Adherence Factor	0.1	mg/cm^2-event	EPA, 2004	CS x CF x AF x ABS-d
				ABS-d	Dermal Absorption Fraction	Chemical-specific	unitless	EPA, 2004	
				EV	Event Frequency	1	events/day	EPA, 2002b	
				EF	Exposure Frequency	90	days/year	(2)	
				ED	Exposure Duration	1	years	(2)	
				BW	Body Weight	70	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	365	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	

Notes
(1) Information regarding modeled intake development can be found in Section 9.1.1.2.3, Estimates of COPC Intake/Exposure
(2) Professional judgment.

TABLE 4.4.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Outdoor Air

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Inhalation	Construction/Utility Worker	Adult	Excavation	CA	Chemical Concentration in Air	Chemical-specific	$\mu g/m^3$	See Table 9-3	Exposure Concentration (EC) ($\mu g/m^3$) = (CA x ET x EF x ED)/AT
				ET	Exposure Time	8	hours/day	(2)	
				EF	Exposure Frequency	125	days/year	(2)	
				ED	Exposure Duration	1	years	(2)	
				AT-N	Averaging Time (Non-Cancer)	8,760	hours	EPA, 2009	
				AT-C	Averaging Time (Cancer)	613,200	hours	EPA, 2009	

Notes
(1) Information regarding modeled intake development can be found in Section 9.1.1.2.3, Estimates of COPC Intake/Exposure, and Table 9-3.
(2) Professional judgment.

TABLE 4.4.CTE
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Outdoor Air

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Inhalation	Construction/Utility Worker	Adult	Excavation	CA	Chemical Concentration in Air	Chemical-specific	$\mu g/m^3$	See Table 9-3	Exposure Concentration (EC) ($\mu g/m^3$) = (CA x ET x EF x ED)/AT
				ET	Exposure Time	6	hours/day	(2)	
				EF	Exposure Frequency	90	days/year	(2)	
				ED	Exposure Duration	1	years	(2)	
				AT-N	Averaging Time (Non-Cancer)	8,760	hours	EPA, 2009	
				AT-C	Averaging Time (Cancer)	613,200	hours	EPA, 2009	

Notes
(1) Information regarding modeled intake development can be found in Section 9.1.1.2.3, Estimates of COPC Intake/Exposure, and Table 9-3.
(2) Professional judgment.

TABLE 4.5.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Ingestion	Recreationist	Adult	Undeveloped or Recreational Areas	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	1.00E-06	kg/mg	- -	CS x CF x IR-S x FI x EF x ED x 1/BW x 1/AT
				IR-S	Ingestion Rate of Soil	100	mg/day	EPA, 2002b	
				FI	Fraction Ingested	1	unitless	(2)	
				EF	Exposure Frequency	50	days/year	(2)	
				ED	Exposure Duration	30/24*	years	EPA, 2002b	
				BW	Body Weight	70	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	10,950	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	
		Child (0-6 years old)	Undeveloped or Recreational Areas	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	1.00E-06	kg/mg	- -	CS x CF x IR-S x FI x EF x ED x 1/BW x 1/AT
				IR-S	Ingestion Rate of Soil	200	mg/day	EPA, 2002b	
				FI	Fraction Ingested	1	unitless	(2)	
				EF	Exposure Frequency	50	days/year	(2)	
				ED	Exposure Duration	6	years	EPA, 2002b	
				BW	Body Weight	15	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	

TABLE 4.5.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Dermal	Recreationist	Adult	Undeveloped or Recreational Areas	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Dermally Absorbed Dose (DAD) (mg/kg-day) =
				DA_{event}	Absorbed dose per event	Chemical-specific	mg/cm^2-event	EPA, 2004	DA_{event} x EF x ED x EV x SA x 1/BW x 1/AT
				CF	Conversion Factor	1.00E-06	kg/mg	- -	where:
				SA	Skin Surface Area Available for Contact	5,700	cm^2	EPA, 2002b	Absorbed Dose per Event (DA_{event}) (mg/cm^2-event) =
				AF	Soil to Skin Adherence Factor	0.07	mg/cm^2-event	EPA, 2002b	CS x CF x AF x ABS-d
				ABS-d	Dermal Absorption Fraction	Chemical-specific	unitless	EPA, 2004	
				EV	Event Frequency	1	events/day	EPA, 2002b	
				EF	Exposure Frequency	50	days/year	(2)	
				ED	Exposure Duration	30/24*	years	EPA, 2002b	
				BW	Body Weight	70	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	10,950	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	
		Child (0-6 years old)	Undeveloped or Recreational Areas	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Dermally Absorbed Dose (DAD) (mg/kg-day) =
				DA_{event}	Absorbed dose per event	Chemical-specific	mg/cm^2-event	EPA, 2004	DA_{event} x EF x ED x EV x SA x 1/BW x 1/AT
				CF	Conversion Factor	1.00E-06	kg/mg	- -	where:
				SA	Skin Surface Area Available for Contact	2,800	cm^2	EPA, 2002b	Absorbed Dose per Event (DA_{event}) (mg/cm^2-event) =
				AF	Soil to Skin Adherence Factor	0.2	mg/cm^2-event	EPA, 2002b	CS x CF x AF x ABS-d
				ABS-d	Dermal Absorption Fraction	Chemical-specific	unitless	EPA, 2004	
				EV	Event Frequency	1	events/day	EPA, 2002b	
				EF	Exposure Frequency	50	days/year	(2)	
				ED	Exposure Duration	6	years	EPA, 2002b	
				BW	Body Weight	15	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	

Notes
(1) Information regarding modeled intake development can be found in Section 9.1.1.2.3, Estimates of COPC Intake/Exposure
(2) Professional judgment.
* Non-cancer hazard quotients for adult recreationists are computed based on an ED of 30 years as an adult. Cancer risks for adult recreationists are computed based on an ED of 30 years, assuming 6 years at the child's rate of exposure and 24 years at the adult's rate of exposure.

TABLE 4.5.CTE
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Ingestion	Recreationist	Adult	Undeveloped or Recreational Areas	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	1.00E-06	kg/mg	- -	CS x CF x IR-S x FI x EF x ED x 1/BW x 1/AT
				IR-S	Ingestion Rate of Soil	100	mg/day	EPA, 2002b	
				FI	Fraction Ingested	1	unitless	(2)	
				EF	Exposure Frequency	20	days/year	(2)	
				ED	Exposure Duration	9	years	EPA, 1997b	
				BW	Body Weight	70	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	3,285	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	
		Child (0-6 years old)	Undeveloped or Recreational Areas	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	1.00E-06	kg/mg	- -	CS x CF x IR-S x FI x EF x ED x 1/BW x 1/AT
				IR-S	Ingestion Rate of Soil	200	mg/day	EPA, 2002b	
				FI	Fraction Ingested	1	unitless	(2)	
				EF	Exposure Frequency	20	days/year	(2)	
				ED	Exposure Duration	6	years	EPA, 2002b	
				BW	Body Weight	15	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	

TABLE 4.5.CTE
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Dermal	Recreationist	Adult	Undeveloped or Recreational Areas	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Dermally Absorbed Dose (DAD) (mg/kg-day) =
				DA_{event}	Absorbed dose per event	Chemical-specific	mg/cm^2-event	EPA, 2004	DA_{event} x EF x ED x EV x SA x 1/BW x 1/AT
				CF	Conversion Factor	1.00E-06	kg/mg	- -	where:
				SA	Skin Surface Area Available for Contact	5,700	cm^2	EPA, 2002b	Absorbed Dose per Event (DA_{event}) (mg/cm^2-event) =
				AF	Soil to Skin Adherence Factor	0.07	mg/cm^2-event	EPA, 2002b	CS x CF x AF x ABS-d
				ABS-d	Dermal Absorption Fraction	Chemical-specific	unitless	EPA, 2004	
				EV	Event Frequency	1	events/day	EPA, 2002b	
				EF	Exposure Frequency	20	days/year	(2)	
				ED	Exposure Duration	9	years	EPA, 1997b	
				BW	Body Weight	70	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	3,285	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	
		Child (0-6 years old)	Undeveloped or Recreational Areas	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Dermally Absorbed Dose (DAD) (mg/kg-day) =
				DA_{event}	Absorbed dose per event	Chemical-specific	mg/cm^2-event	EPA, 2004	DA_{event} x EF x ED x EV x SA x 1/BW x 1/AT
				CF	Conversion Factor	1.00E-06	kg/mg	- -	where:
				SA	Skin Surface Area Available for Contact	2,800	cm^2	EPA, 2002b	Absorbed Dose per Event (DA_{event}) (mg/cm^2-event) =
				AF	Soil to Skin Adherence Factor	0.2	mg/cm^2-event	EPA, 2002b	CS x CF x AF x ABS-d
				ABS-d	Dermal Absorption Fraction	Chemical-specific	unitless	EPA, 2004	
				EV	Event Frequency	1	events/day	EPA, 2002b	
				EF	Exposure Frequency	20	days/year	(2)	
				ED	Exposure Duration	6	years	EPA, 2002b	
				BW	Body Weight	15	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	

Notes
(1) Information regarding modeled intake development can be found in Section 9.1.1.2.3, Estimates of COPC Intake/Exposure
(2) Professional judgment.

TABLE 4.6.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Outdoor Air

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Inhalation	Recreationist	Adult	Undeveloped or Recreational Areas	CA	Chemical Concentration in Air	Chemical-specific	$\mu g/m^3$	See Table 9-3	Exposure Concentration (EC) ($\mu g/m^3$) = (CA x ET x EF x ED)/AT
				ET	Exposure Time	4	hours/day	(2)	
				EF	Exposure Frequency	50	days/year	(2)	
				ED	Exposure Duration	30/24*	years	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	262,800	hours	EPA, 2009	
				AT-C	Averaging Time (Cancer)	613,200	hours	EPA, 2009	
		Child (0-6 years old)	Undeveloped or Recreational Areas	CA	Chemical Concentration in Air	Chemical-specific	$\mu g/m^3$	See Table 9-3	Exposure Concentration (EC) ($\mu g/m^3$) = (CA x ET x EF x ED)/AT
				ET	Exposure Time	4	hours/day	(2)	
				EF	Exposure Frequency	50	days/year	(2)	
				ED	Exposure Duration	6	years	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	52,560	hours	EPA, 2009	
				AT-C	Averaging Time (Cancer)	613,200	hours	EPA, 2009	

Notes
(1) Information regarding modeled intake development can be found in Section 9.1.1.2.3, Estimates of COPC Intake/Exposure, and Table 9-3.
(2) Professional judgment.
* Non-cancer hazard quotients for adult recreationists are computed based on an ED of 30 years as an adult. Cancer risks for adult recreationists are computed based on an ED of 30 years, assuming 6 years at the child's rate of exposure and 24 years at the adult's rate of exposure.

TABLE 4.6.CTE
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Outdoor Air

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Inhalation	Recreationist	Adult	Undeveloped or Recreational Areas	CA	Chemical Concentration in Air	Chemical-specific	$\mu g/m^3$	See Table 9-3	Exposure Concentration (EC) ($\mu g/m^3$) = (CA x ET x EF x ED)/AT
				ET	Exposure Time	4	hours/day	(2)	
				EF	Exposure Frequency	20	days/year	(2)	
				ED	Exposure Duration	9	years	EPA, 1997b	
				AT-N	Averaging Time (Non-Cancer)	78,840	hours	EPA, 2009	
				AT-C	Averaging Time (Cancer)	613,200	hours	EPA, 2009	
		Child (0-6 years old)	Undeveloped or Recreational Areas	CA	Chemical Concentration in Air	Chemical-specific	$\mu g/m^3$	See Table 9-3	Exposure Concentration (EC) ($\mu g/m^3$) = (CA x ET x EF x ED)/AT
				ET	Exposure Time	4	hours/day	(2)	
				EF	Exposure Frequency	20	days/year	(2)	
				ED	Exposure Duration	6	years	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	52,560	hours	EPA, 2009	
				AT-C	Averaging Time (Cancer)	613,200	hours	EPA, 2009	

Notes
(1) Information regarding modeled intake development can be found in Section 9.1.1.2.3, Estimates of COPC Intake/Exposure, and Table 9-3.
(2) Professional judgment.

TABLE 4.7.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Ingestion	Construction Worker	Adult	Construction Site	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	1.00E-06	kg/mg	- -	CS x CF x IR-S x FI x EF x ED x 1/BW x 1/AT
				IR-S	Ingestion Rate of Soil	330	mg/day	EPA, 2002b	
				FI	Fraction Ingested	1	unitless	(2)	
				EF	Exposure Frequency	225	days/year	EPA, 2002b	
				ED	Exposure Duration	1	years	(2)	
				BW	Body Weight	70	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	365	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	
Dermal	Construction Worker	Adult	Construction Site	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Dermally Absorbed Dose (DAD) (mg/kg-day) =
				DA_{event}	Absorbed dose per event	Chemical-specific	mg/cm^2-event	EPA, 2004	DA_{event} x EF x ED x EV x SA x 1/BW x 1/AT
				CF	Conversion Factor	1.00E-06	kg/mg	- -	where:
				SA	Skin Surface Area Available for Contact	3,300	cm^2	EPA, 2002b	Absorbed Dose per Event (DA_{event}) (mg/cm^2-event) =
				AF	Soil to Skin Adherence Factor	0.3	mg/cm^2-event	EPA, 2002b	CS x CF x AF x ABS-d
				ABS-d	Dermal Absorption Fraction	Chemical-specific	unitless	EPA, 2004	
				EV	Event Frequency	1	events/day	EPA, 2002b	
				EF	Exposure Frequency	225	days/year	EPA, 2002b	
				ED	Exposure Duration	1	years	(2)	
				BW	Body Weight	70	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	365	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	

Notes
(1) Information regarding modeled intake development can be found in Section 9.1.1.2.3, Estimates of COPC Intake/Exposure.
(2) Professional judgment.

TABLE 4.7.CTE
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Ingestion	Construction Worker	Adult	Construction Site	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	1.00E-06	kg/mg	- -	CS x CF x IR-S x FI x EF x ED x 1/BW x 1/AT
				IR-S	Ingestion Rate of Soil	330	mg/day	EPA, 2002b	
				FI	Fraction Ingested	1	unitless	(2)	
				EF	Exposure Frequency	112	days/year	(2)	
				ED	Exposure Duration	1	years	(2)	
				BW	Body Weight	70	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	365	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	
Dermal	Construction Worker	Adult	Construction Site	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Dermally Absorbed Dose (DAD) (mg/kg-day) =
				DA_{event}	Absorbed dose per event	Chemical-specific	mg/cm^2-event	EPA, 2004	DA_{event} x EF x ED x EV x SA x 1/BW x 1/AT
				CF	Conversion Factor	1.00E-06	kg/mg	- -	where:
				SA	Skin Surface Area Available for Contact	3,300	cm^2	EPA, 2002b	Absorbed Dose per Event (DA_{event}) (mg/cm^2-event) =
				AF	Soil to Skin Adherence Factor	0.1	mg/cm^2-event	EPA, 2004	CS x CF x AF x ABS-d
				ABS-d	Dermal Absorption Fraction	Chemical-specific	unitless	EPA, 2004	
				EV	Event Frequency	1	events/day	EPA, 2002b	
				EF	Exposure Frequency	112	days/year	(2)	
				ED	Exposure Duration	1	years	(2)	
				BW	Body Weight	70	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	365	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	

Notes
(1) Information regarding modeled intake development can be found in Section 9.1.1.2.3, Estimates of COPC Intake/Exposure
(2) Professional judgment.

TABLE 4.8.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Outdoor Air

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Inhalation	Construction Worker	Adult	Construction Site	CA	Chemical concentration in Air	Chemical-specific	mg/m^3	See Table 9-4	Exposure Concentration (EC) ($\mu g/m^3$) = CA x ET x EF x ED x 1/AT
				ET	Exposure Time	8	hours/day	(2)	
				EF	Exposure Frequency	225	days/year	EPA, 2002b	
				ED	Exposure Duration	1	years	(2)	
				AT-N	Averaging Time (Non-Cancer)	8,760	hours	EPA, 2009	
				AT-C	Averaging Time (Cancer)	613,200	hours	EPA, 2009	

Notes
(1) Information regarding modeled intake development can be found in Section 9.1.1.2.3, Estimates of COPC Intake/Exposure, and Table 9-4.
(2) Professional judgment.

TABLE 4.8.CTE
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Outdoor Air

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Inhalation	Construction Worker	Adult	Construction Site	CA	Chemical concentration in Air	Chemical-specific	$\mu g/m^3$	See Table 9-4	Exposure Concentration (EC) ($\mu g/m^3$) = CA x ET x EF x ED x 1/AT
				ET	Exposure Time	8	hours/day	(2)	
				EF	Exposure Frequency	112	days/year	(2)	
				ED	Exposure Duration	1	years	(2)	
				AT-N	Averaging Time (Non-Cancer)	8,760	hours	EPA, 2009	
				AT-C	Averaging Time (Cancer)	613,200	hours	EPA, 2009	

Notes
(1) Information regarding modeled intake development can be found in Section 9.1.1.2.3, Estimates of COPC Intake/Exposure, and Table 9-4.
(2) Professional judgment.

TABLE 4.9.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Hypothetical Future
Medium: Soil
Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Ingestion	Resident	Adult	Residence	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	1.00E-06	kg/mg	- -	CS x CF x IR-S x FI x EF x ED x 1/BW x 1/AT
				IR-S	Ingestion Rate of Soil	100	mg/day	EPA, 2002b	
				FI	Fraction Ingested	1	unitless	(2)	
				EF	Exposure Frequency	350	days/year	EPA, 2002b	
				ED	Exposure Duration	30/24*	years	EPA, 2002b	
				BW	Body Weight	70	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	10,950	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	
		Child (0-6 years old)	Residence	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	1.00E-06	kg/mg	- -	CS x CF x IR-S x FI x EF x ED x 1/BW x 1/AT
				IR-S	Ingestion Rate of Soil	200	mg/day	EPA, 2002b	
				FI	Fraction Ingested	1	unitless	(2)	
				EF	Exposure Frequency	350	days/year	EPA, 2002b	
				ED	Exposure Duration	6	years	EPA, 2002b	
				BW	Body Weight	15	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	

TABLE 4.9.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Hypothetical Future
Medium: Soil
Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Dermal	Resident	Adult	Residence	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Dermally Absorbed Dose (DAD) (mg/kg-day) =
				DA_{event}	Absorbed dose per event	Chemical-specific	mg/cm^2-event	EPA, 2004	DA_{event} x EF x ED x EV x SA x 1/BW x 1/AT
				CF	Conversion Factor	1.00E-06	kg/mg	- -	where:
				SA	Skin Surface Area Available for Contact	5,700	cm^2	EPA, 2002b	Absorbed Dose per Event (DA_{event}) (mg/cm^2-event) =
				AF	Soil to Skin Adherence Factor	0.07	mg/cm^2-event	EPA, 2002b	CS x CF x AF x ABS-d
				ABS-d	Dermal Absorption Fraction	Chemical-specific	unitless	EPA, 2004	
				EV	Event Frequency	1	events/day	EPA, 2002b	
				EF	Exposure Frequency	350	days/year	EPA, 2002b	
				ED	Exposure Duration	30/24*	years	EPA, 2002b	
				BW	Body Weight	70	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	10,950	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	
		Child (0-6 years old)	Residence	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Dermally Absorbed Dose (DAD) (mg/kg-day) =
				DA_{event}	Absorbed dose per event	Chemical-specific	mg/cm^2-event	EPA, 2004	DA_{event} x EF x ED x EV x SA x 1/BW x 1/AT
				CF	Conversion Factor	1.00E-06	kg/mg	- -	where:
				SA	Skin Surface Area Available for Contact	2,800	cm^2	EPA, 2002b	Absorbed Dose per Event (DA_{event}) (mg/cm^2-event) =
				AF	Soil to Skin Adherence Factor	0.2	mg/cm^2-event	EPA, 2002b	CS x CF x AF x ABS-d
				ABS-d	Dermal Absorption Fraction	Chemical-specific	unitless	EPA, 2004	
				EV	Event Frequency	1	events/day	EPA, 2002b	
				EF	Exposure Frequency	350	days/year	EPA, 2002b	
				ED	Exposure Duration	6	years	EPA, 2002b	
				BW	Body Weight	15	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	

Notes
(1) Information regarding modeled intake development can be found in Section 9.1.1.2.3, Estimates of COPC Intake/Exposure
(2) Professional judgment.
* Non-cancer hazard quotients for adult residents are computed based on an ED of 30 years as an adult. Cancer risks for adult residents are computed based on an ED of 30 years, assuming 6 years at the child's rate of exposure and 24 years at the adult's rate of exposure.

TABLE 4.9.CTE
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Hypothetical Future
Medium: Soil
Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Ingestion	Resident	Adult	Residence	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	1.00E-06	kg/mg	- -	CS x CF x IR-S x FI x EF x ED x 1/BW x 1/AT
				IR-S	Ingestion Rate of Soil	100	mg/day	EPA, 2002b	
				FI	Fraction Ingested	1	unitless	(2)	
				EF	Exposure Frequency	350	days/year	EPA, 2002b	
				ED	Exposure Duration	9	years	EPA, 1997b	
				BW	Body Weight	70	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	3,285	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	
		Child (0-6 years old)	Residence	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	1.00E-06	kg/mg	- -	CS x CF x IR-S x FI x EF x ED x 1/BW x 1/AT
				IR-S	Ingestion Rate of Soil	200	mg/day	EPA, 2002b	
				FI	Fraction Ingested	1	unitless	(2)	
				EF	Exposure Frequency	350	days/year	EPA, 2002b	
				ED	Exposure Duration	6	years	EPA, 2002b	
				BW	Body Weight	15	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	

TABLE 4.9.CTE
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Hypothetical Future
Medium: Soil
Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Dermal	Resident	Adult	Residence	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Dermally Absorbed Dose (DAD) (mg/kg-day) =
				DA_{event}	Absorbed dose per event	Chemical-specific	mg/cm^2-event	EPA, 2004	DA_{event} x EF x ED x EV x SA x 1/BW x 1/AT
				CF	Conversion Factor	1.00E-06	kg/mg	- -	where:
				SA	Skin Surface Area Available for Contact	5,700	cm^2	EPA, 2002b	Absorbed Dose per Event (DA_{event}) (mg/cm^2-event) =
				AF	Soil to Skin Adherence Factor	0.07	mg/cm^2-event	EPA, 2002b	CS x CF x AF x ABS-d
				ABS-d	Dermal Absorption Fraction	Chemical-specific	unitless	EPA, 2004	
				EV	Event Frequency	1	events/day	EPA, 2002b	
				EF	Exposure Frequency	350	days/year	EPA, 2002b	
				ED	Exposure Duration	9	years	EPA, 1997b	
				BW	Body Weight	70	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	3,285	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	
		Child (0-6 years old)	Residence	CS	Chemical Concentration in Soil	Chemical-specific	mg/kg	See Table 3.1	Dermally Absorbed Dose (DAD) (mg/kg-day) =
				DA_{event}	Absorbed dose per event	Chemical-specific	mg/cm^2-event	EPA, 2004	DA_{event} x EF x ED x EV x SA x 1/BW x 1/AT
				CF	Conversion Factor	1.00E-06	kg/mg	- -	where:
				SA	Skin Surface Area Available for Contact	2,800	cm^2	EPA, 2002b	Absorbed Dose per Event (DA_{event}) (mg/cm^2-event) =
				AF	Soil to Skin Adherence Factor	0.2	mg/cm^2-event	EPA, 2002b	CS x CF x AF x ABS-d
				ABS-d	Dermal Absorption Fraction	Chemical-specific	unitless	EPA, 2004	
				EV	Event Frequency	1	events/day	EPA, 2002b	
				EF	Exposure Frequency	350	days/year	EPA, 2002b	
				ED	Exposure Duration	6	years	EPA, 2002b	
				BW	Body Weight	15	kg	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	EPA, 1989	
				AT-C	Averaging Time (Cancer)	25,550	days	EPA, 1989	

Notes
(1) Information regarding modeled intake development can be found in Section 9.1.1.2.3, Estimates of COPC Intake/Exposure.
(2) Professional judgment.

TABLE 4.10.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Hypothetical Future
Medium: Soil
Exposure Medium: Outdoor Air

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Inhalation	Resident	Adult	Residence	CA	Chemical Concentration in Air	Chemical-specific	µg/m^3	See Table 9-3	Exposure Concentration (EC) (µg/m^3) = (CA x ET x EF x ED)/AT
				ET	Exposure Time	24	hours/day	(2)	
				EF	Exposure Frequency	350	days/year	EPA, 2002b	
				ED	Exposure Duration	30/24*	years	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	262,800	hours	EPA, 2009	
				AT-C	Averaging Time (Cancer)	613,200	hours	EPA, 2009	
		Child (0-6 years old)	Residence	CA	Chemical Concentration in Air	Chemical-specific	µg/m^3	See Table 9-3	Exposure Concentration (EC) (µg/m^3) = (CA x ET x EF x ED)/AT
				ET	Exposure Time	24	hours/day	(2)	
				EF	Exposure Frequency	350	days/year	EPA, 2002b	
				ED	Exposure Duration	6	years	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	52,560	hours	EPA, 2009	
				AT-C	Averaging Time (Cancer)	613,200	hours	EPA, 2009	

Notes
(1) Information regarding modeled intake development can be found in Section 9.1.1.2.3, Estimates of COPC Intake/Exposure, and Table 9-3.
(2) Professional judgment.
* Non-cancer hazard quotients for adult residents are computed based on an ED of 30 years as an adult. Cancer risks for adult residents are computed based on an ED of 30 years, assuming 6 years at the child's rate of exposure and 24 years at the adult's rate of exposure.

TABLE 4.10.CTE
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY EXPOSURE
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe: Hypothetical Future
Medium: Soil
Exposure Medium: Outdoor Air

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Inhalation	Resident	Adult	Residence	CA	Chemical Concentration in Air	Chemical-specific	$\mu g/m^3$	See Table 9-3	Exposure Concentration (EC) ($\mu g/m^3$) =
				ET	Exposure Time	16.4	hours/day	EPA, 1997b	(CA x ET x EF x ED)/AT
				EF	Exposure Frequency	350	days/year	EPA, 2002b	
				ED	Exposure Duration	9	years	EPA, 1997b	
				AT-N	Averaging Time (Non-Cancer)	78,840	hours	EPA, 2009	
				AT-C	Averaging Time (Cancer)	613,200	hours	EPA, 2009	
		Child (0-6 years old)	Residence	CA	Chemical Concentration in Air	Chemical-specific	$\mu g/m^3$	See Table 9-3	Exposure Concentration (EC) ($\mu g/m^3$) =
				ET	Exposure Time	16.4	hours/day	EPA, 1997b	(CA x ET x EF x ED)/AT
				EF	Exposure Frequency	350	days/year	EPA, 2002b	
				ED	Exposure Duration	6	years	EPA, 2002b	
				AT-N	Averaging Time (Non-Cancer)	52,560	hours	EPA, 2009	
				AT-C	Averaging Time (Cancer)	613,200	hours	EPA, 2009	

Notes
(1) Information regarding modeled intake development can be found in Section 9.1.1.2.3, Estimates of COPC Intake/Exposure, and Table 9-3.
(2) Professional judgment.

TABLE 5.1

NON-CANCER TOXICITY DATA -- ORAL/DERMAL

BASELINE HUMAN HEALTH RISK ASSESSMENT

PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Constituent of Potential Concern	Chronic/ Subchronic	Oral Reference Dose (RfD)		Oral Absorption Efficiency for Dermal	Absorbed RfD for Dermal		Primary Target Organ(s)	Combined Uncertainty/Modifying Factors	RfD	
		Value	Units		Value	Units			Source(s)	Date(s) (MM/DD/YYYY)
Metals										
Aluminum	Chronic	1E+00	mg/kg-day	1	1E+00	mg/kg-day	Neurotoxicity	100	NCEA	10/23/2006
	Subchronic	1E+00	mg/kg-day	1	1E+00	mg/kg-day	Neurological effects	30	ATSDR	09/00/2008
Antimony	Chronic	4E-04	mg/kg-day	0.15	6E-05	mg/kg-day	Longevity, blood glucose, and cholesterol	1000	IRIS	07/17/2012
	Subchronic	4E-04	mg/kg-day	0.15	6E-05	mg/kg-day	Longevity, blood glucose, and cholesterol	1000	NCEA	07/29/2008
Barium	Chronic	2E-01	mg/kg-day	0.07	1.4E-02	mg/kg-day	Nephropathy	300	IRIS	07/17/2012
	Subchronic	2E-01	mg/kg-day	0.07	1.4E-02	mg/kg-day	Kidney effects	100	ATSDR	08/00/2007
Cadmium	Chronic	1E-03	mg/kg-day	0.025	2.5E-05	mg/kg-day	Significant proteinuria	10	IRIS	07/17/2012
	Subchronic *	5E-04	mg/kg-day	0.025	1.3E-05	mg/kg-day	Musculoskeletal effects	100	ATSDR	09/00/2008
Manganese	Chronic	2.4E-02	mg/kg-day	1	2.4E-02	mg/kg-day	Central nervous system effects	1	IRIS	07/17/2012
	Subchronic	2.4E-02	mg/kg-day	1	2.4E-02	mg/kg-day	Central nervous system effects	1	HEAST	07/00/1997

Notes

Gastrointestinal absorption efficiencies are from Exhibit 4-1 in USEPA, 2004. See Section 4, "Toxicity Assessment," of the Human Health Risk Assessment text.

IRIS = Integrated Risk Information System (EPA, 2013b).

NCEA = National Center for Environmental Assessment, Provisional Peer-Reviewed Toxicity Value (EPA, 2013c).

ATSDR = Agency for Toxic Substances and Disease Registry, Minimal Risk Level (ATSDR, 2013).

HEAST = Health Effects Assessment Summary Tables (EPA, 1997).

* The subchronic RfD is from a different source than the chronic RfD. The subchronic value is lower than the chronic value and will therefore not be used in the noncancer hazard calculations.

N/A = Not Available.

TABLE 5.2

NON-CANCER TOXICITY DATA -- INHALATION

BASELINE HUMAN HEALTH RISK ASSESSMENT

PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Constituent of Potential Concern	Chronic/ Subchronic	Inhalation Reference Concentration (RfC)		Extrapolated Reference Dose (RfD)		Primary Target Organ(s)	Combined Uncertainty/Modifying Factors	RfC	
		Value	Units	Value	Units			Source(s)	Date(s) (MM/DD/YYYY)
Metals									
Aluminum	Chronic	5E-03	mg/m^3	NA	--	Psychomotor and cognitive impairment	300	NCEA	10/23/2006
Antimony	--	N/A	--	NA	--	--	--		
Barium	Chronic	5E-04	mg/m^3	NA	--	Fetotoxicity	1000	HEAST	07/00/1997
	Subchronic	5E-03	mg/m^3	NA	--	Fetotoxicity	100	HEAST	07/00/1997
Cadmium	--	N/A	--	NA	--	--	--		
Manganese	Chronic	5E-05	mg/m^3	NA	--	Neurological effects	1000	IRIS	07/17/2012

Notes

IRIS = Integrated Risk Information System (EPA, 2013b).

NCEA = National Center for Environmental Assessment, Provisional Peer-Reviewed Toxicity Value (EPA, 2013c).

CalEPA = California Environmental Protection Agency, Office of Environmental Health Hazard Assessment.

HEAST = Health Effects Assessment Summary Tables (EPA, 1997).

N/A = Not Available.

NA = Not Applicable.

TABLE 6.1

CANCER TOXICITY DATA -- ORAL/DERMAL

BASELINE HUMAN HEALTH RISK ASSESSMENT

PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Constituent of Potential Concern	Oral Cancer Slope Factor (CSF)		Oral Absorption Efficiency for Dermal	Absorbed Cancer Slope Factor for Dermal		EPA Weight of Evidence Classification / Cancer Guideline Description	Oral CSF	
	Value	Units		Value	Units		Source(s)	Date(s) (MM/DD/YYYY)
Metals								
Aluminum	N/A	--	1	N/A	--	Inadequate information	NCEA	10/23/2006
Antimony	N/A	--	0.015	N/A	--	Inadequate information	NCEA	07/29/2008
Barium	N/A	--	0.07	N/A	--	D		
Cadmium	N/A	--	0.025	N/A	--	B1		
Manganese	N/A	--	1	N/A	--	D		

Notes

Gastrointestinal absorption efficiencies are from Exhibit 4-1 in USEPA, 2004. See Section 4, "Toxicity Assessment," of the Human Health Risk Assessment text.

IRIS = Integrated Risk Information System (EPA, 2013b).

NCEA = National Center for Environmental Assessment, Provisional Peer-Reviewed Toxicity Value (EPA, 2013c).

NJDEP = New Jersey Department of Environmental Protection (Stern, 2009).

N/A = Not Available.

EPA (1986) Weight of Evidence Classifications:

A - Human carcinogen.

B1 - Probable human carcinogen - indicates that limited human data are available

B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans.

C - Possible human carcinogen.

D - Not classifiable as a human carcinogen.

E - Evidence of noncarcinogenicity.

EPA (2005b) Cancer Guidelines Descriptions:

Carcinogenic to humans.

Likely to be carcinogenic to humans.

Suggestive evidence of carcinogenic potential.

Inadequate information to assess carcinogenic potential.

Not likely to be carcinogenic to humans.

TABLE 6.2

CANCER TOXICITY DATA -- INHALATION

BASELINE HUMAN HEALTH RISK ASSESSMENT

PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Chemical of Potential Concern	Unit Risk Factor (URF)		Inhalation Cancer Slope Factor (CSF)		EPA Weight of Evidence Classification / Cancer Guideline Description	URF : Inhalation CSF	
	Value	Units	Value	Units		Source	Date (MM/DD/YYYY)
Metals							
Aluminum	N/A		NA	--	Inadequate information	NCEA	10/23/2006
Antimony	N/A		NA	--	Inadequate information	NCEA	07/29/2008
Barium	N/A		NA	--	D		
Cadmium	1.8E-03	$(\mu g/m^3)^{-1}$	NA	--	B1	IRIS	07/17/2012
Manganese	N/A		NA	--	D		

Notes

IRIS = Integrated Risk Information System (EPA, 2013b).

NCEA = National Center for Environmental Assessment, Provisional Peer-Reviewed Toxicity Value (EPA, 2013c).

CalEPA = California Environmental Protection Agency, Office of Environmental Health Hazard Assessment.

N/A = Not Available.

NA = Not Applicable.

EPA (1986) Weight of Evidence Classifications:

A - Human carcinogen.

B1 - Probable human carcinogen - indicates that limited human data are available.

B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans.

C - Possible human carcinogen.

D - Not classifiable as a human carcinogen.

E - Evidence of noncarcinogenicity.

EPA (2005b) Cancer Guidelines Descriptions:

Carcinogenic to humans.

Likely to be carcinogenic to humans.

Suggestive evidence of carcinogenic potential.

Inadequate information to assess carcinogenic potential.

Not likely to be carcinogenic to humans.

TABLE 7.1.RME
CALCULATION OF CANCER RISKS AND NON-CANCER HAZARDS
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Current/Future
Exposure Unit:	Former Operational Areas
Receptor Population:	Outdoor Site Worker
Receptor Age:	Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake / Exposure Concentration		Cancer Slope Factor / Unit Risk		Cancer Risk	Intake / Exposure Concentration		Reference Dose / Reference Concentration		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	Workplace at FOA MRS	Ingestion	Aluminum	1.4E+04	mg/kg	4.5E-03	mg/kg-day	NA	--	NA	1.3E-02	mg/kg-day	1.0E+00	mg/kg-day	1E-02
				Antimony	8.8E-01	mg/kg	2.8E-07	mg/kg-day	NA	--	NA	7.7E-07	mg/kg-day	4.0E-04	mg/kg-day	2E-03
				Barium	3.5E+02	mg/kg	1.1E-04	mg/kg-day	NA	--	NA	3.1E-04	mg/kg-day	2.0E-01	mg/kg-day	2E-03
				Cadmium	1.9E+00	mg/kg	5.8E-07	mg/kg-day	NA	--	NA	1.6E-06	mg/kg-day	1.0E-03	mg/kg-day	2E-03
				Manganese	5.2E+03	mg/kg	1.6E-03	mg/kg-day	NA	--	NA	4.5E-03	mg/kg-day	2.4E-02	mg/kg-day	2E-01
			Exposure Route Total								NA					2E-01
			Dermal Contact	Aluminum	1.4E+04	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	1.0E+00	mg/kg-day	--
				Antimony	8.8E-01	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	6.0E-05	mg/kg-day	--
				Barium	3.5E+02	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	1.4E-02	mg/kg-day	--
				Cadmium	1.9E+00	mg/kg	3.9E-09	mg/kg-day	NA	--	NA	1.1E-08	mg/kg-day	2.5E-05	mg/kg-day	4E-04
				Manganese	5.2E+03	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	2.4E-02	mg/kg-day	--
			Exposure Route Total								NA					4E-04
			Inhalation	Aluminum	3.4E-02	$\mu g/m^3$	2.5E-03	$\mu g/m^3$	NA	--	NA	7.0E-03	$\mu g/m^3$	5.0E+00	$\mu g/m^3$	1E-03
				Antimony	2.1E-06	$\mu g/m^3$	1.5E-07	$\mu g/m^3$	NA	--	NA	4.3E-07	$\mu g/m^3$	NA	--	NA
				Barium	8.3E-04	$\mu g/m^3$	6.1E-05	$\mu g/m^3$	NA	--	NA	1.7E-04	$\mu g/m^3$	5.0E-01	$\mu g/m^3$	3E-04
				Cadmium	4.4E-06	$\mu g/m^3$	3.2E-07	$\mu g/m^3$	1.8E-03	$(\mu g/m^3)^{-1}$	6E-10	9.1E-07	$\mu g/m^3$	NA	$\mu g/m^3$	NA
				Manganese	1.2E-02	$\mu g/m^3$	9.0E-04	$\mu g/m^3$	NA	--	NA	2.5E-03	$\mu g/m^3$	5.0E-02	$\mu g/m^3$	5E-02
			Exposure Route Total								6E-10					5E-02
		Exposure Point Total									6E-10					3E-01
Total of Receptor Risks Across Medium											6E-10					3E-01

Notes
NA = Not Available
N/A = Not Applicable

TABLE 7.2.RME
CALCULATION OF CANCER RISKS AND NON-CANCER HAZARDS
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Current/Future
Exposure Unit:	Former Operational Areas
Receptor Population:	Construction/Utility Worker
Receptor Age:	Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake / Exposure Concentration		Cancer Slope Factor / Unit Risk		Cancer Risk	Intake / Exposure Concentration		Reference Dose / Reference Concentration		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	Excavation at FOA MRS	Ingestion	Aluminum	1.4E+04	mg/kg	3.3E-04	mg/kg-day	NA	--	NA	2.3E-02	mg/kg-day	1.0E+00	mg/kg-day	2E-02
				Antimony	8.8E-01	mg/kg	2.0E-08	mg/kg-day	NA	--	NA	1.4E-06	mg/kg-day	4.0E-04	mg/kg-day	4E-03
				Barium	3.5E+02	mg/kg	8.1E-06	mg/kg-day	NA	--	NA	5.7E-04	mg/kg-day	2.0E-01	mg/kg-day	3E-03
				Cadmium	1.9E+00	mg/kg	4.3E-08	mg/kg-day	NA	--	NA	3.0E-06	mg/kg-day	1.0E-03	mg/kg-day	3E-03
				Manganese	5.2E+03	mg/kg	1.2E-04	mg/kg-day	NA	--	NA	8.3E-03	mg/kg-day	2.4E-02	mg/kg-day	3E-01
			Exposure Route Total								NA					4E-01
			Dermal Contact	Aluminum	1.4E+04	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	1.0E+00	mg/kg-day	--
				Antimony	8.8E-01	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	6.0E-05	mg/kg-day	--
				Barium	3.5E+02	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	1.4E-02	mg/kg-day	--
				Cadmium	1.9E+00	mg/kg	1.3E-10	mg/kg-day	NA	--	NA	9.0E-09	mg/kg-day	2.5E-05	mg/kg-day	4E-04
				Manganese	5.2E+03	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	2.4E-02	mg/kg-day	--
			Exposure Route Total								NA					4E-04
			Inhalation	Aluminum	3.4E-02	$\mu g/m^3$	5.6E-05	$\mu g/m^3$	NA	--	NA	3.9E-03	$\mu g/m^3$	5.0E+00	$\mu g/m^3$	8E-04
				Antimony	2.1E-06	$\mu g/m^3$	3.4E-09	$\mu g/m^3$	NA	--	NA	2.4E-07	$\mu g/m^3$	NA	--	NA
				Barium	8.3E-04	$\mu g/m^3$	1.4E-06	$\mu g/m^3$	NA	--	NA	9.5E-05	$\mu g/m^3$	5.0E+00	$\mu g/m^3$	2E-05
				Cadmium	4.4E-06	$\mu g/m^3$	7.2E-09	$\mu g/m^3$	1.8E-03	$(\mu g/m^3)^{-1}$	1E-11	5.0E-07	$\mu g/m^3$	NA	$\mu g/m^3$	NA
				Manganese	1.2E-02	$\mu g/m^3$	2.0E-05	$\mu g/m^3$	NA	--	NA	1.4E-03	$\mu g/m^3$	5.0E-02	$\mu g/m^3$	3E-02
			Exposure Route Total								1E-11					3E-02
		Exposure Point Total									1E-11					4E-01
Total of Receptor Risks Across Medium											1E-11					4E-01

Notes
NA = Not Available
N/A = Not Applicable

TABLE 7.3.RME
CALCULATION OF CANCER RISKS AND NON-CANCER HAZARDS
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Current/Future
Exposure Unit:	Former Operational Areas
Receptor Population:	Recreationist
Receptor Age:	Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake / Exposure Concentration		Cancer Slope Factor / Unit Risk		Cancer Risk	Intake / Exposure Concentration		Reference Dose / Reference Concentration		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	Undeveloped or Recreational Areas at FOA MRS	Ingestion	Aluminum	1.4E+04	mg/kg	1.2E-03	mg/kg-day	NA	--	NA	2.8E-03	mg/kg-day	1.0E+00	mg/kg-day	3E-03
				Antimony	8.8E-01	mg/kg	7.4E-08	mg/kg-day	NA	--	NA	1.7E-07	mg/kg-day	4.0E-04	mg/kg-day	4E-04
				Barium	3.5E+02	mg/kg	2.9E-05	mg/kg-day	NA	--	NA	6.8E-05	mg/kg-day	2.0E-01	mg/kg-day	3E-04
				Cadmium	1.9E+00	mg/kg	1.6E-07	mg/kg-day	NA	--	NA	3.6E-07	mg/kg-day	1.0E-03	mg/kg-day	4E-04
				Manganese	5.2E+03	mg/kg	4.3E-04	mg/kg-day	NA	--	NA	1.0E-03	mg/kg-day	2.4E-02	mg/kg-day	4E-02
			Exposure Route Total								NA					5E-02
			Dermal Contact	Aluminum	1.4E+04	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	1.0E+00	mg/kg-day	--
				Antimony	8.8E-01	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	6.0E-05	mg/kg-day	--
				Barium	3.5E+02	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	1.4E-02	mg/kg-day	--
				Cadmium	1.9E+00	mg/kg	6.2E-10	mg/kg-day	NA	--	NA	1.5E-09	mg/kg-day	2.5E-05	mg/kg-day	6E-05
				Manganese	5.2E+03	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	2.4E-02	mg/kg-day	--
			Exposure Route Total								NA					6E-05
			Inhalation	Aluminum	3.4E-02	$\mu g/m^3$	3.3E-04	$\mu g/m^3$	NA	--	NA	7.8E-04	$\mu g/m^3$	5.0E+00	$\mu g/m^3$	2E-04
				Antimony	2.1E-06	$\mu g/m^3$	2.0E-08	$\mu g/m^3$	NA	--	NA	4.8E-08	$\mu g/m^3$	NA	--	NA
				Barium	8.3E-04	$\mu g/m^3$	8.1E-06	$\mu g/m^3$	NA	--	NA	1.9E-05	$\mu g/m^3$	5.0E-01	$\mu g/m^3$	4E-05
				Cadmium	4.4E-06	$\mu g/m^3$	4.3E-08	$\mu g/m^3$	1.8E-03	$(\mu g/m^3)^{-1}$	9E-11	1.0E-07	$\mu g/m^3$	NA	$\mu g/m^3$	NA
				Manganese	1.2E-02	$\mu g/m^3$	1.2E-04	$\mu g/m^3$	NA	--	NA	2.8E-04	$\mu g/m^3$	5.0E-02	$\mu g/m^3$	6E-03
			Exposure Route Total								9E-11					6E-03
		Exposure Point Total									9E-11					5E-02
Total of Receptor Risks Across Medium											9E-11					5E-02

Notes
NA = Not Available
N/A = Not Applicable

TABLE 7.4.RME
CALCULATION OF CANCER RISKS AND NON-CANCER HAZARDS
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Current/Future
Exposure Unit:	Former Operational Areas
Receptor Population:	Recreationist
Receptor Age:	Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake / Exposure Concentration		Cancer Slope Factor / Unit Risk		Cancer Risk	Intake / Exposure Concentration		Reference Dose / Reference Concentration		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	Undeveloped or Recreational Areas at FOA MRS	Ingestion	Aluminum	1.4E+04	mg/kg	2.2E-03	mg/kg-day	NA	--	NA	2.6E-02	mg/kg-day	1.0E+00	mg/kg-day	3E-02
				Antimony	8.8E-01	mg/kg	1.4E-07	mg/kg-day	NA	--	NA	1.6E-06	mg/kg-day	4.0E-04	mg/kg-day	4E-03
				Barium	3.5E+02	mg/kg	5.5E-05	mg/kg-day	NA	--	NA	6.4E-04	mg/kg-day	2.0E-01	mg/kg-day	3E-03
				Cadmium	1.9E+00	mg/kg	2.9E-07	mg/kg-day	NA	--	NA	3.4E-06	mg/kg-day	1.0E-03	mg/kg-day	3E-03
				Manganese	5.2E+03	mg/kg	8.1E-04	mg/kg-day	NA	--	NA	9.4E-03	mg/kg-day	2.4E-02	mg/kg-day	4E-01
			Exposure Route Total								NA					4E-01
			Dermal Contact	Aluminum	1.4E+04	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	1.0E+00	mg/kg-day	--
				Antimony	8.8E-01	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	6.0E-05	mg/kg-day	--
				Barium	3.5E+02	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	1.4E-02	mg/kg-day	--
				Cadmium	1.9E+00	mg/kg	5.8E-10	mg/kg-day	NA	--	NA	9.5E-09	mg/kg-day	2.5E-05	mg/kg-day	4E-04
				Manganese	5.2E+03	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	2.4E-02	mg/kg-day	--
			Exposure Route Total								NA					4E-04
			Inhalation	Aluminum	3.4E-02	$\mu g/m^3$	6.7E-05	$\mu g/m^3$	NA	--	NA	7.8E-04	$\mu g/m^3$	5.0E+00	$\mu g/m^3$	2E-04
				Antimony	2.1E-06	$\mu g/m^3$	4.1E-09	$\mu g/m^3$	NA	--	NA	4.8E-08	$\mu g/m^3$	NA	--	NA
				Barium	8.3E-04	$\mu g/m^3$	1.6E-06	$\mu g/m^3$	NA	--	NA	1.9E-05	$\mu g/m^3$	5.0E-01	$\mu g/m^3$	4E-05
				Cadmium	4.4E-06	$\mu g/m^3$	8.6E-09	$\mu g/m^3$	1.8E-03	$(\mu g/m^3)^{-1}$	2E-11	1.0E-07	$\mu g/m^3$	NA	$\mu g/m^3$	NA
				Manganese	1.2E-02	$\mu g/m^3$	2.4E-05	$\mu g/m^3$	NA	--	NA	2.8E-04	$\mu g/m^3$	5.0E-02	$\mu g/m^3$	6E-03
			Exposure Route Total								2E-11					6E-03
		Exposure Point Total									2E-11					4E-01
Total of Receptor Risks Across Medium											2E-11					4E-01

Notes
NA = Not Available
N/A = Not Applicable

TABLE 7.5.RME
CALCULATION OF CANCER RISKS AND NON-CANCER HAZARDS
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Future
Exposure Unit:	Former Operational Areas
Receptor Population:	Construction Worker
Receptor Age:	Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake / Exposure Concentration		Cancer Slope Factor / Unit Risk		Cancer Risk	Intake / Exposure Concentration		Reference Dose / Reference Concentration		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	Construction Site at FOA MRS	Ingestion	Aluminum	1.4E+04	mg/kg	6.0E-04	mg/kg-day	NA	--	NA	4.2E-02	mg/kg-day	1.0E+00	mg/kg-day	4E-02
				Antimony	8.8E-01	mg/kg	3.7E-08	mg/kg-day	NA	--	NA	2.6E-06	mg/kg-day	4.0E-04	mg/kg-day	6E-03
				Barium	3.5E+02	mg/kg	1.5E-05	mg/kg-day	NA	--	NA	1.0E-03	mg/kg-day	2.0E-01	mg/kg-day	5E-03
				Cadmium	1.9E+00	mg/kg	7.7E-08	mg/kg-day	NA	--	NA	5.4E-06	mg/kg-day	1.0E-03	mg/kg-day	5E-03
				Manganese	5.2E+03	mg/kg	2.1E-04	mg/kg-day	NA	--	NA	1.5E-02	mg/kg-day	2.4E-02	mg/kg-day	6E-01
			Exposure Route Total								NA					7E-01
			Dermal Contact	Aluminum	1.4E+04	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	1.0E+00	mg/kg-day	--
				Antimony	8.8E-01	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	6.0E-05	mg/kg-day	--
				Barium	3.5E+02	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	1.4E-02	mg/kg-day	--
				Cadmium	1.9E+00	mg/kg	2.3E-10	mg/kg-day	NA	--	NA	1.6E-08	mg/kg-day	2.5E-05	mg/kg-day	6E-04
				Manganese	5.2E+03	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	2.4E-02	mg/kg-day	--
			Exposure Route Total								NA					6E-04
			Inhalation	Aluminum	6.4E+00	$\mu g/m^3$	1.9E-02	$\mu g/m^3$	NA	--	NA	1.3E+00	$\mu g/m^3$	5.0E+00	$\mu g/m^3$	3E-01
				Antimony	3.9E-04	$\mu g/m^3$	1.2E-06	$\mu g/m^3$	NA	--	NA	8.1E-05	$\mu g/m^3$	NA	--	NA
				Barium	1.6E-01	$\mu g/m^3$	4.6E-04	$\mu g/m^3$	NA	--	NA	3.2E-02	$\mu g/m^3$	5.0E+00	$\mu g/m^3$	6E-03
				Cadmium	8.3E-04	$\mu g/m^3$	2.4E-06	$\mu g/m^3$	1.8E-03	$(\mu g/m^3)^{-1}$	4E-09	1.7E-04	$\mu g/m^3$	NA	$\mu g/m^3$	NA
				Manganese	2.3E+00	$\mu g/m^3$	6.8E-03	$\mu g/m^3$	NA	--	NA	4.8E-01	$\mu g/m^3$	5.0E-02	$\mu g/m^3$	1E+01
			Exposure Route Total								4E-09					1E+01
		Exposure Point Total									4E-09					1E+01
Total of Receptor Risks Across Medium											4E-09					1E+01

Notes
NA = Not Available
N/A = Not Applicable

TABLE 7.5.CTE
CALCULATION OF CANCER RISKS AND NON-CANCER HAZARDS
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Future
Exposure Unit:	Former Operational Areas
Receptor Population:	Construction Worker
Receptor Age:	Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake / Exposure Concentration		Cancer Slope Factor / Unit Risk		Cancer Risk	Intake / Exposure Concentration		Reference Dose / Reference Concentration		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	Construction Site at FOA MRS	Ingestion	Aluminum	1.4E+04	mg/kg	3.0E-04	mg/kg-day	NA	--	NA	2.1E-02	mg/kg-day	1.0E+00	mg/kg-day	2E-02
				Antimony	8.8E-01	mg/kg	1.8E-08	mg/kg-day	NA	--	NA	1.3E-06	mg/kg-day	4.0E-04	mg/kg-day	3E-03
				Barium	3.5E+02	mg/kg	7.2E-06	mg/kg-day	NA	--	NA	5.1E-04	mg/kg-day	2.0E-01	mg/kg-day	3E-03
				Cadmium	1.9E+00	mg/kg	3.8E-08	mg/kg-day	NA	--	NA	2.7E-06	mg/kg-day	1.0E-03	mg/kg-day	3E-03
				Manganese	5.2E+03	mg/kg	1.1E-04	mg/kg-day	NA	--	NA	7.5E-03	mg/kg-day	2.4E-02	mg/kg-day	3E-01
			Exposure Route Total								NA					3E-01
			Dermal Contact	Aluminum	1.4E+04	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	1.0E+00	mg/kg-day	--
				Antimony	8.8E-01	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	6.0E-05	mg/kg-day	--
				Barium	3.5E+02	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	1.4E-02	mg/kg-day	--
				Cadmium	1.9E+00	mg/kg	3.8E-11	mg/kg-day	NA	--	NA	2.7E-09	mg/kg-day	2.5E-05	mg/kg-day	1E-04
				Manganese	5.2E+03	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	2.4E-02	mg/kg-day	--
			Exposure Route Total								NA					1E-04
			Inhalation	Aluminum	6.4E+00	$\mu g/m^3$	9.4E-03	$\mu g/m^3$	NA	--	NA	6.6E-01	$\mu g/m^3$	5.0E+00	$\mu g/m^3$	1E-01
				Antimony	3.9E-04	$\mu g/m^3$	5.8E-07	$\mu g/m^3$	NA	--	NA	4.0E-05	$\mu g/m^3$	NA	--	NA
				Barium	1.6E-01	$\mu g/m^3$	2.3E-04	$\mu g/m^3$	NA	--	NA	1.6E-02	$\mu g/m^3$	5.0E+00	$\mu g/m^3$	3E-03
				Cadmium	8.3E-04	$\mu g/m^3$	1.2E-06	$\mu g/m^3$	1.8E-03	$(\mu g/m^3)^{-1}$	2E-09	8.5E-05	$\mu g/m^3$	NA	$\mu g/m^3$	NA
				Manganese	2.3E+00	$\mu g/m^3$	3.4E-03	$\mu g/m^3$	NA	--	NA	2.4E-01	$\mu g/m^3$	5.0E-02	$\mu g/m^3$	5E+00
			Exposure Route Total								2E-09					5E+00
		Exposure Point Total									2E-09					5E+00
Total of Receptor Risks Across Medium											2E-09					5E+00

Notes
NA = Not Available
N/A = Not Applicable

TABLE 7.6.RME
CALCULATION OF CANCER RISKS AND NON-CANCER HAZARDS
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Future
Exposure Unit:	Former Operational Areas
Receptor Population:	Resident
Receptor Age:	Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake / Exposure Concentration		Cancer Slope Factor / Unit Risk		Cancer Risk	Intake / Exposure Concentration		Reference Dose / Reference Concentration		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	Residence	Ingestion	Aluminum	1.4E+04	mg/kg	8.4E-03	mg/kg-day	NA	--	NA	2.0E-02	mg/kg-day	1.0E+00	mg/kg-day	2E-02
				Antimony	8.8E-01	mg/kg	5.2E-07	mg/kg-day	NA	--	NA	1.2E-06	mg/kg-day	4.0E-04	mg/kg-day	3E-03
				Barium	3.5E+02	mg/kg	2.1E-04	mg/kg-day	NA	--	NA	4.8E-04	mg/kg-day	2.0E-01	mg/kg-day	2E-03
				Cadmium	1.9E+00	mg/kg	1.1E-06	mg/kg-day	NA	--	NA	2.5E-06	mg/kg-day	1.0E-03	mg/kg-day	3E-03
				Manganese	5.2E+03	mg/kg	3.0E-03	mg/kg-day	NA	--	NA	7.1E-03	mg/kg-day	2.4E-02	mg/kg-day	3E-01
			Exposure Route Total								NA					3E-01
			Dermal Contact	Aluminum	1.4E+04	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	1.0E+00	mg/kg-day	--
				Antimony	8.8E-01	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	6.0E-05	mg/kg-day	--
				Barium	3.5E+02	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	1.4E-02	mg/kg-day	--
				Cadmium	1.9E+00	mg/kg	4.4E-09	mg/kg-day	NA	--	NA	1.0E-08	mg/kg-day	2.5E-05	mg/kg-day	4E-04
				Manganese	5.2E+03	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	2.4E-02	mg/kg-day	--
			Exposure Route Total								NA					4E-04
			Inhalation	Aluminum	3.4E-02	$\mu g/m^3$	1.4E-02	$\mu g/m^3$	NA	--	NA	3.3E-02	$\mu g/m^3$	5.0E+00	$\mu g/m^3$	7E-03
				Antimony	2.1E-06	$\mu g/m^3$	8.6E-07	$\mu g/m^3$	NA	--	NA	2.0E-06	$\mu g/m^3$	NA	--	NA
				Barium	8.3E-04	$\mu g/m^3$	3.4E-04	$\mu g/m^3$	NA	--	NA	8.0E-04	$\mu g/m^3$	5.0E-01	$\mu g/m^3$	2E-03
				Cadmium	4.4E-06	$\mu g/m^3$	1.8E-06	$\mu g/m^3$	1.8E-03	$(\mu g/m^3)^{-1}$	4E-09	4.2E-06	$\mu g/m^3$	NA	$\mu g/m^3$	NA
				Manganese	1.2E-02	$\mu g/m^3$	5.0E-03	$\mu g/m^3$	NA	--	NA	1.2E-02	$\mu g/m^3$	5.0E-02	$\mu g/m^3$	2E-01
			Exposure Route Total								4E-09					2E-01
		Exposure Point Total									4E-09					6E-01
Total of Receptor Risks Across Medium											4E-09					6E-01

Notes
NA = Not Available
N/A = Not Applicable

TABLE 7.7.RME
CALCULATION OF CANCER RISKS AND NON-CANCER HAZARDS
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Future
Exposure Unit:	Former Operational Areas
Receptor Population:	Resident
Receptor Age:	Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake / Exposure Concentration		Cancer Slope Factor / Unit Risk		Cancer Risk	Intake / Exposure Concentration		Reference Dose / Reference Concentration		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	Residence	Ingestion	Aluminum	1.4E+04	mg/kg	1.6E-02	mg/kg-day	NA	--	NA	1.8E-01	mg/kg-day	1.0E+00	mg/kg-day	2E-01
				Antimony	8.8E-01	mg/kg	9.6E-07	mg/kg-day	NA	--	NA	1.1E-05	mg/kg-day	4.0E-04	mg/kg-day	3E-02
				Barium	3.5E+02	mg/kg	3.8E-04	mg/kg-day	NA	--	NA	4.5E-03	mg/kg-day	2.0E-01	mg/kg-day	2E-02
				Cadmium	1.9E+00	mg/kg	2.0E-06	mg/kg-day	NA	--	NA	2.4E-05	mg/kg-day	1.0E-03	mg/kg-day	2E-02
				Manganese	5.2E+03	mg/kg	5.7E-03	mg/kg-day	NA	--	NA	6.6E-02	mg/kg-day	2.4E-02	mg/kg-day	3E+00
			Exposure Route Total								NA					3E+00
			Dermal Contact	Aluminum	1.4E+04	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	1.0E+00	mg/kg-day	--
				Antimony	8.8E-01	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	6.0E-05	mg/kg-day	--
				Barium	3.5E+02	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	1.4E-02	mg/kg-day	--
				Cadmium	1.9E+00	mg/kg	5.7E-09	mg/kg-day	NA	--	NA	6.7E-08	mg/kg-day	2.5E-05	mg/kg-day	3E-03
				Manganese	5.2E+03	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	2.4E-02	mg/kg-day	--
			Exposure Route Total								NA					3E-03
			Inhalation	Aluminum	3.4E-02	$\mu g/m^3$	2.8E-03	$\mu g/m^3$	NA	--	NA	3.3E-02	$\mu g/m^3$	5.0E+00	$\mu g/m^3$	7E-03
				Antimony	2.1E-06	$\mu g/m^3$	1.7E-07	$\mu g/m^3$	NA	--	NA	2.0E-06	$\mu g/m^3$	NA	--	NA
				Barium	8.3E-04	$\mu g/m^3$	6.8E-05	$\mu g/m^3$	NA	--	NA	8.0E-04	$\mu g/m^3$	5.0E-01	$\mu g/m^3$	2E-03
				Cadmium	4.4E-06	$\mu g/m^3$	3.6E-07	$\mu g/m^3$	1.8E-03	$(\mu g/m^3)^{-1}$	7E-10	4.2E-06	$\mu g/m^3$	NA	$\mu g/m^3$	NA
				Manganese	1.2E-02	$\mu g/m^3$	1.0E-03	$\mu g/m^3$	NA	--	NA	1.2E-02	$\mu g/m^3$	5.0E-02	$\mu g/m^3$	2E-01
			Exposure Route Total								7E-10					2E-01
		Exposure Point Total									7E-10					3E+00
Total of Receptor Risks Across Medium											7E-10					3E+00

Notes
NA = Not Available
N/A = Not Applicable

TABLE 7.7.CTE
CALCULATION OF CANCER RISKS AND NON-CANCER HAZARDS
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Future
Exposure Unit:	Former Operational Areas
Receptor Population:	Resident
Receptor Age:	Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake / Exposure Concentration		Cancer Slope Factor / Unit Risk		Cancer Risk	Intake / Exposure Concentration		Reference Dose / Reference Concentration		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	Residence	Ingestion	Aluminum	1.4E+04	mg/kg	1.6E-02	mg/kg-day	NA	--	NA	1.8E-01	mg/kg-day	1.0E+00	mg/kg-day	2E-01
				Antimony	8.8E-01	mg/kg	9.6E-07	mg/kg-day	NA	--	NA	1.1E-05	mg/kg-day	4.0E-04	mg/kg-day	3E-02
				Barium	3.5E+02	mg/kg	3.8E-04	mg/kg-day	NA	--	NA	4.5E-03	mg/kg-day	2.0E-01	mg/kg-day	2E-02
				Cadmium	1.9E+00	mg/kg	2.0E-06	mg/kg-day	NA	--	NA	2.4E-05	mg/kg-day	1.0E-03	mg/kg-day	2E-02
				Manganese	5.2E+03	mg/kg	5.7E-03	mg/kg-day	NA	--	NA	6.6E-02	mg/kg-day	2.4E-02	mg/kg-day	3E+00
			Exposure Route Total								NA					3E+00
			Dermal Contact	Aluminum	1.4E+04	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	1.0E+00	mg/kg-day	--
				Antimony	8.8E-01	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	6.0E-05	mg/kg-day	--
				Barium	3.5E+02	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	1.4E-02	mg/kg-day	--
				Cadmium	1.9E+00	mg/kg	5.7E-09	mg/kg-day	NA	--	NA	6.7E-08	mg/kg-day	2.5E-05	mg/kg-day	3E-03
				Manganese	5.2E+03	mg/kg	N/A	mg/kg-day	NA	--	--	N/A	mg/kg-day	2.4E-02	mg/kg-day	--
			Exposure Route Total								NA					3E-03
			Inhalation	Aluminum	3.4E-02	$\mu g/m^3$	1.9E-03	$\mu g/m^3$	NA	--	NA	2.2E-02	$\mu g/m^3$	5.0E+00	$\mu g/m^3$	4E-03
				Antimony	2.1E-06	$\mu g/m^3$	1.2E-07	$\mu g/m^3$	NA	--	NA	1.4E-06	$\mu g/m^3$	NA	--	NA
				Barium	8.3E-04	$\mu g/m^3$	4.7E-05	$\mu g/m^3$	NA	--	NA	5.4E-04	$\mu g/m^3$	5.0E-01	$\mu g/m^3$	1E-03
				Cadmium	4.4E-06	$\mu g/m^3$	2.5E-07	$\mu g/m^3$	1.8E-03	$(\mu g/m^3)^{-1}$	4E-10	2.9E-06	$\mu g/m^3$	NA	$\mu g/m^3$	NA
				Manganese	1.2E-02	$\mu g/m^3$	6.9E-04	$\mu g/m^3$	NA	--	NA	8.0E-03	$\mu g/m^3$	5.0E-02	$\mu g/m^3$	2E-01
			Exposure Route Total								4E-10					2E-01
		Exposure Point Total									4E-10					3E+00
Total of Receptor Risks Across Medium											4E-10					3E+00

Notes
NA = Not Available
N/A = Not Applicable

TABLE 9.1.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Current/Future
Exposure Unit:	Former Operational Areas
Receptor Population:	Outdoor Site Worker
Receptor Age:	Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Workplace at FOA MRS	Aluminum	NA	NA	N/A	--	Neurological	1E-02	1E-03	N/A	1E-02
			Antimony	NA	NA	N/A	--	Blood	2E-03	NA	N/A	2E-03
			Barium	NA	NA	N/A	--	Kidney	2E-03	3E-04	N/A	2E-03
			Cadmium	NA	6E-10	NA	6E-10	Kidney; Respiratory; Musculoskeletal	2E-03	NA	4E-04	2E-03
			Manganese	NA	NA	N/A	--	Neurological	2E-01	5E-02	N/A	2E-01
			Chemical Total	--	6E-10	--	6E-10		2E-01	5E-02	4E-04	3E-01
		Exposure Point Total					6E-10					3E-01
	Exposure Medium Total						6E-10					3E-01
Receptor Total						Receptor Risk Total	6E-10				Receptor HI Total	3E-01

Notes

NA = Not Available

N/A = Not Applicable

TABLE 9.2.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Current/Future
Exposure Unit:	Former Operational Areas
Receptor Population:	Construction/Utility Worker
Receptor Age:	Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Excavation at FOA MRS	Aluminum	NA	NA	N/A	--	Neurological	2E-02	8E-04	N/A	2E-02
			Antimony	NA	NA	N/A	--	Blood	4E-03	NA	N/A	4E-03
			Barium	NA	NA	N/A	--	Kidney	3E-03	2E-05	N/A	3E-03
			Cadmium	NA	1E-11	NA	1E-11	Kidney; Respiratory; Musculoskeletal	3E-03	NA	4E-04	3E-03
			Manganese	NA	NA	N/A	--	Neurological	3E-01	3E-02	N/A	4E-01
			Chemical Total	--	1E-11	--	1E-11		4E-01	3E-02	4E-04	4E-01
		Exposure Point Total					1E-11					4E-01
	Exposure Medium Total						1E-11					4E-01
Receptor Total						Receptor Risk Total	1E-11				Receptor HI Total	4E-01

Notes

NA = Not Available

N/A = Not Applicable

TABLE 9.3.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Current/Future
Exposure Unit:	Former Operational Areas
Receptor Population:	Recreationist
Receptor Age:	Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Undeveloped or Recreational Areas at FOA MRS	Aluminum	NA	NA	N/A	--	Neurological	3E-03	2E-04	N/A	3E-03
			Antimony	NA	NA	N/A	--	Blood	4E-04	NA	N/A	4E-04
			Barium	NA	NA	N/A	--	Kidney	3E-04	4E-05	N/A	4E-04
			Cadmium	NA	9E-11	NA	9E-11	Kidney; Respiratory; Musculoskeletal	4E-04	NA	6E-05	4E-04
			Manganese	NA	NA	N/A	--	Neurological	4E-02	6E-03	N/A	5E-02
			Chemical Total	--	9E-11	--	9E-11		5E-02	6E-03	6E-05	5E-02
		Exposure Point Total					9E-11					5E-02
	Exposure Medium Total						9E-11					5E-02
Receptor Total						Receptor Risk Total	9E-11				Receptor HI Total	5E-02

Notes

NA = Not Available

N/A = Not Applicable

TABLE 9.4.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Current/Future
Exposure Unit:	Former Operational Areas
Receptor Population:	Recreationist
Receptor Age:	Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Undeveloped or Recreational Areas at FOA MRS	Aluminum	NA	NA	N/A	--	Neurological	3E-02	2E-04	N/A	3E-02
			Antimony	NA	NA	N/A	--	Blood	4E-03	NA	N/A	4E-03
			Barium	NA	NA	N/A	--	Kidney	3E-03	4E-05	N/A	3E-03
			Cadmium	NA	2E-11	NA	2E-11	Kidney; Respiratory; Musculoskeletal	3E-03	NA	4E-04	4E-03
			Manganese	NA	NA	N/A	--	Neurological	4E-01	6E-03	N/A	4E-01
			Chemical Total	--	2E-11	--	2E-11		4E-01	6E-03	4E-04	4E-01
		Exposure Point Total					2E-11					4E-01
	Exposure Medium Total						2E-11					4E-01
Receptor Total						Receptor Risk Total	2E-11				Receptor HI Total	4E-01

Notes

NA = Not Available

N/A = Not Applicable

TABLE 9.5.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Future
Exposure Unit:	Former Operational Areas
Receptor Population:	Construction Worker
Receptor Age:	Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Construction Site at FOA MRS	Aluminum	NA	NA	N/A	--	Neurological	4E-02	3E-01	N/A	3E-01
			Antimony	NA	NA	N/A	--	Blood	6E-03	NA	N/A	6E-03
			Barium	NA	NA	N/A	--	Kidney	5E-03	6E-03	N/A	1E-02
			Cadmium	NA	4E-09	NA	4E-09	Kidney; Respiratory; Musculoskeletal	5E-03	NA	6E-04	6E-03
			Manganese	NA	NA	N/A	--	Neurological	6E-01	1E+01	N/A	1E+01
			Chemical Total	--	4E-09	--	4E-09		7E-01	1E+01	6E-04	1E+01
		Exposure Point Total					4E-09					1E+01
	Exposure Medium Total						4E-09					1E+01
Receptor Total						Receptor Risk Total	4E-09				Receptor HI Total	1E+01

Notes
NA = Not Available
N/A = Not Applicable

Blood HI Across All Media =	6E-03
Kidney HI Across All Media =	2E-02
Neurological HI Across All Media =	1E+01
Respiratory, Lung HI Across All Media =	6E-03
Musculoskeletal Across All Media =	6E-03

TABLE 9.5.CTE
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Future
Exposure Unit:	Former Operational Areas
Receptor Population:	Construction Worker
Receptor Age:	Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Construction Site at FOA MRS	Aluminum	NA	NA	N/A	--	Neurological	2E-02	1E-01	N/A	2E-01
			Antimony	NA	NA	N/A	--	Blood	3E-03	NA	N/A	3E-03
			Barium	NA	NA	N/A	--	Kidney	3E-03	3E-03	N/A	6E-03
			Cadmium	NA	2E-09	NA	2E-09	Kidney; Respiratory; Musculoskeletal	3E-03	NA	1E-04	3E-03
			Manganese	NA	NA	N/A	--	Neurological	3E-01	5E+00	N/A	5E+00
			Chemical Total	--	2E-09	--	2E-09		3E-01	5E+00	1E-04	5E+00
		Exposure Point Total					2E-09					5E+00
	Exposure Medium Total						2E-09					5E+00
Receptor Total						Receptor Risk Total	2E-09				Receptor HI Total	5E+00

Notes
NA = Not Available
N/A = Not Applicable

Blood HI Across All Media =	3E-03
Kidney HI Across All Media =	9E-03
Neurological HI Across All Media =	5E+00
Respiratory, Lung HI Across All Media =	3E-03
Musculoskeletal Across All Media =	3E-03

TABLE 9.6.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Future
Exposure Unit:	Former Operational Areas
Receptor Population:	Resident
Receptor Age:	Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Residence	Aluminum	NA	NA	N/A	--	Neurological	2E-02	7E-03	N/A	3E-02
			Antimony	NA	NA	N/A	--	Blood	3E-03	NA	N/A	3E-03
			Barium	NA	NA	N/A	--	Kidney	2E-03	2E-03	N/A	4E-03
			Cadmium	NA	4E-09	NA	4E-09	Kidney; Respiratory; Musculoskeletal	3E-03	NA	4E-04	3E-03
			Manganese	NA	NA	N/A	--	Neurological	3E-01	2E-01	N/A	5E-01
			Chemical Total	--	4E-09	--	4E-09		3E-01	2E-01	4E-04	6E-01
		Exposure Point Total					4E-09					6E-01
	Exposure Medium Total						4E-09					6E-01
Receptor Total						Receptor Risk Total	4E-09				Receptor HI Total	6E-01

Notes

NA = Not Available

N/A = Not Applicable

TABLE 9.7.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Future
Exposure Unit:	Former Operational Areas
Receptor Population:	Resident
Receptor Age:	Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Residence	Aluminum	NA	NA	N/A	--	Neurological	2E-01	7E-03	N/A	2E-01
			Antimony	NA	NA	N/A	--	Blood	3E-02	NA	N/A	3E-02
			Barium	NA	NA	N/A	--	Kidney	2E-02	2E-03	N/A	2E-02
			Cadmium	NA	7E-10	NA	7E-10	Kidney; Respiratory; Musculoskeletal	2E-02	NA	3E-03	3E-02
			Manganese	NA	NA	N/A	--	Neurological	3E+00	2E-01	N/A	3E+00
			Chemical Total	--	7E-10	--	7E-10		3E+00	2E-01	3E-03	3E+00
		Exposure Point Total					7E-10					3E+00
	Exposure Medium Total						7E-10					3E+00
Receptor Total						Receptor Risk Total	7E-10				Receptor HI Total	3E+00

Notes

NA = Not Available

N/A = Not Applicable

Blood HI Across All Media =	3E-02
Kidney HI Across All Media =	5E-02
Neurological HI Across All Media =	3E+00
Respiratory, Lung HI Across All Media =	3E-02
Musculoskeletal Across All Media =	3E-02

TABLE 9.7.CTE
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Future
Exposure Unit:	Former Operational Areas
Receptor Population:	Resident
Receptor Age:	Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Residence	Aluminum	NA	NA	N/A	--	Neurological	2E-01	4E-03	N/A	2E-01
			Antimony	NA	NA	N/A	--	Blood	3E-02	NA	N/A	3E-02
			Barium	NA	NA	N/A	--	Kidney	2E-02	1E-03	N/A	2E-02
			Cadmium	NA	4E-10	NA	4E-10	Kidney; Respiratory; Musculoskeletal	2E-02	NA	3E-03	3E-02
			Manganese	NA	NA	N/A	--	Neurological	3E+00	2E-01	N/A	3E+00
			Chemical Total	--	4E-10	--	4E-10		3E+00	2E-01	3E-03	3E+00
		Exposure Point Total					4E-10					3E+00
	Exposure Medium Total						4E-10					3E+00
Receptor Total						Receptor Risk Total	4E-10				Receptor HI Total	3E+00

Notes

NA = Not Available

N/A = Not Applicable

Blood HI Across All Media =	3E-02
Kidney HI Across All Media =	5E-02
Neurological HI Across All Media =	3E+00
Respiratory, Lung HI Across All Media =	3E-02
Musculoskeletal Across All Media =	3E-02

TABLE 10.5.RME
RISK SUMMARY
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Future
Exposure Unit:	Former Operational Areas
Receptor Population:	Construction Worker
Receptor Age:	Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Construction Site at FOA MRS	Manganese					Neurological	6E-01	1E+01	N/A	1E+01
			Chemical Total						6E-01	1E+01	--	1E+01
		Exposure Point Total										1E+01
	Exposure Medium Total											1E+01
Receptor Total							Receptor Risk Total				Receptor HI Total	1E+01

Notes

N/A = Not Applicable

Neurological HI Across All Media = 1E+01

TABLE 10.5.CTE
RISK SUMMARY
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Future
Exposure Unit:	Former Operational Areas
Receptor Population:	Construction Worker
Receptor Age:	Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Construction Site at FOA MRS	Manganese					Neurological	3E-01	5E+00	N/A	5E+00
			Chemical Total						3E-01	5E+00	--	5E+00
		Exposure Point Total										5E+00
	Exposure Medium Total											5E+00
Receptor Total							Receptor Risk Total				Receptor HI Total	5E+00

Neurological HI Across All Media = 5E+00

Notes

N/A = Not Applicable

TABLE 10.7.RME
RISK SUMMARY
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Future
Exposure Unit:	Former Operational Areas
Receptor Population:	Resident
Receptor Age:	Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Residence	Manganese					Neurological	3E+00	2E-01	N/A	3E+00
			Chemical Total						3E+00	2E-01	--	3E+00
		Exposure Point Total										3E+00
	Exposure Medium Total											3E+00
Receptor Total							Receptor Risk Total				Receptor HI Total	3E+00

Notes

N/A = Not Applicable

Neurological HI Across All Media = 3E+00

TABLE 10.7.CTE
RISK SUMMARY
BASELINE HUMAN HEALTH RISK ASSESSMENT
PICATINNY ARSENAL REMEDIAL INVESTIGATION REPORT, PICATINNY ARSENAL, NEW JERSEY

Scenario Timeframe:	Future
Exposure Unit:	Former Operational Areas
Receptor Population:	Resident
Receptor Age:	Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Residence	Manganese					Neurological	3E+00	2E-01	N/A	3E+00
			Chemical Total						3E+00	2E-01	--	3E+00
		Exposure Point Total										3E+00
	Exposure Medium Total											3E+00
Receptor Total							Receptor Risk Total				Receptor HI Total	3E+00

Notes

N/A = Not Applicable

Neurological HI Across All Media = 3E+00

APPENDIX Q

ProUCL Output
Former Operational Areas MRS

Aluminum

General Statistics - Data units are mg/kg.

Number of Valid Observations	90	Number of Distinct Observations	55
Raw Statistics		Log-transformed Statistics	
Minimum	2900	Minimum of Log Data	7.972
Maximum	38500	Maximum of Log Data	10.56
Mean	13019	Mean of log Data	9.319
Geometric Mean	11143	SD of log Data	0.562
Median	11000		
SD	7635		
Std. Error of Mean	804.8		
Coefficient of Variation	0.586		
Skewness	1.301		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.149	Lilliefors Test Statistic	0.043
Lilliefors Critical Value	0.0934	Lilliefors Critical Value	0.0934
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	14357	95% H-UCL	14603
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	16618
95% Adjusted-CLT UCL (Chen-1995)	14461	97.5% Chebyshev (MVUE) UCL	18173
95% Modified-t UCL (Johnson-1978)	14375	99% Chebyshev (MVUE) UCL	21228
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	3.266	Data appear Gamma Distributed at 5% Significance Level	
Theta Star	3987		
MLE of Mean	13019		
MLE of Standard Deviation	7204		
nu star	587.8		
Approximate Chi Square Value (.05)	532.6	Nonparametric Statistics	
Adjusted Level of Significance	0.0473	95% CLT UCL	14343
Adjusted Chi Square Value	531.7	95% Jackknife UCL	14357
		95% Standard Bootstrap UCL	14306
Anderson-Darling Test Statistic	0.585	95% Bootstrap-t UCL	14451
Anderson-Darling 5% Critical Value	0.758	95% Hall's Bootstrap UCL	14468
Kolmogorov-Smirnov Test Statistic	0.076	95% Percentile Bootstrap UCL	14399
Kolmogorov-Smirnov 5% Critical Value	0.0947	95% BCA Bootstrap UCL	14447
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	16527
		97.5% Chebyshev(Mean, Sd) UCL	18045
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	21027
95% Approximate Gamma UCL (Use when n >= 40)	14369		
95% Adjusted Gamma UCL (Use when n < 40)	14392		
Potential UCL to Use		Use 95% Approximate Gamma UCL	14369

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Antimony

General Statistics - Data units are mg/kg.

Number of Valid Data	90	Number of Detected Data	28
Number of Distinct Detected Data	24	Number of Non-Detect Data	62
		Percent Non-Detects	68.89%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.48	Minimum Detected	-0.734
Maximum Detected	4.5	Maximum Detected	1.504
Mean of Detected	1.076	Mean of Detected	-0.0543
SD of Detected	0.761	SD of Detected	0.452
Minimum Non-Detect	0.59	Minimum Non-Detect	-0.528
Maximum Non-Detect	82	Maximum Non-Detect	4.407

Note: Data have multiple DLs - Use of KM Method is recommende		Number treated as Non-Detect	90
For all methods (except KM, DL/2, and ROS Methods),		Number treated as Detected	0
Observations < Largest ND are treated as NDs		Single DL Non-Detect Percentage	100.00%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.582	Shapiro Wilk Test Statistic	0.867
5% Shapiro Wilk Critical Value	0.924	5% Shapiro Wilk Critical Value	0.924
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1.422	Mean	-0.239
SD	4.307	SD	0.8
95% DL/2 (t) UCL	2.177	95% H-Stat (DL/2) UCL	1.292

Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE method failed to converge properly		Mean in Log Scale	-0.429
		SD in Log Scale	0.391
		Mean in Original Scale	0.721
		SD in Original Scale	0.492
		95% t UCL	0.807
		95% Percentile Bootstrap UCL	0.811
		95% BCA Bootstrap UCL	0.855
		95% H-UCL	0.757

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	3.674	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.293		
nu star	205.8		

A-D Test Statistic	1.883	Nonparametric Statistics	
5% A-D Critical Value	0.75	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.75	Mean	0.781
5% K-S Critical Value	0.166	SD	0.499
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.0595
		95% KM (t) UCL	0.88
Assuming Gamma Distribution		95% KM (z) UCL	0.879
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	0.882
Minimum	1.00E-06	95% KM (bootstrap t) UCL	0.926
Maximum	4.5	95% KM (BCA) UCL	0.903
Mean	0.712	95% KM (Percentile Bootstrap) UCL	0.903
Median	0.722	95% KM (Chebyshev) UCL	1.04
SD	0.54	97.5% KM (Chebyshev) UCL	1.152
k star	0.929	99% KM (Chebyshev) UCL	1.373
Theta star	0.767		
Nu star	167.2	Potential UCLs to Use	
AppChi2	138.3	95% KM (t) UCL	0.88
95% Gamma Approximate UCL (Use when n >= 40)	0.861	95% KM (% Bootstrap) UCL	0.903
95% Adjusted Gamma UCL (Use when n < 40)	0.864		

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Barium

General Statistics - Data units are mg/kg.

Number of Valid Observations	90	Number of Distinct Observations	61
Raw Statistics		Log-transformed Statistics	
Minimum	11	Minimum of Log Data	2.398
Maximum	1900	Maximum of Log Data	7.55
Mean	179.2	Mean of log Data	4.214
Geometric Mean	67.66	SD of log Data	1.19
Median	51		
SD	370.9		
Std. Error of Mean	39.09		
Coefficient of Variation	2.069		
Skewness	3.331		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.375	Lilliefors Test Statistic	0.162
Lilliefors Critical Value	0.0934	Lilliefors Critical Value	0.0934
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	244.2	95% H-UCL	186.7
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	229.2
95% Adjusted-CLT UCL (Chen-1995)	258.2	97.5% Chebyshev (MVUE) UCL	269.7
95% Modified-t UCL (Johnson-1978)	246.5	99% Chebyshev (MVUE) UCL	349.3
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.616	Data do not follow a Discernable Distribution (0.05)	
Theta Star	290.8		
MLE of Mean	179.2		
MLE of Standard Deviation	228.3		
nu star	110.9		
Approximate Chi Square Value (.05)	87.61	Nonparametric Statistics	
Adjusted Level of Significance	0.0473	95% CLT UCL	243.5
Adjusted Chi Square Value	87.27	95% Jackknife UCL	244.2
		95% Standard Bootstrap UCL	242.8
Anderson-Darling Test Statistic	9.096	95% Bootstrap-t UCL	264.3
Anderson-Darling 5% Critical Value	0.806	95% Hall's Bootstrap UCL	250.2
Kolmogorov-Smirnov Test Statistic	0.262	95% Percentile Bootstrap UCL	245.1
Kolmogorov-Smirnov 5% Critical Value	0.0987	95% BCA Bootstrap UCL	260.8
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	349.6
		97.5% Chebyshev(Mean, Sd) UCL	423.4
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	568.2
95% Approximate Gamma UCL (Use when n >= 40)	226.9		
95% Adjusted Gamma UCL (Use when n < 40)	227.8		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	349.6

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Cadmium

General Statistics - Data units are mg/kg.

Number of Valid Data	90	Number of Detected Data	80
Number of Distinct Detected Data	57	Number of Non-Detect Data	10
		Percent Non-Detects	11.11%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.05	Minimum Detected	-2.996
Maximum Detected	19	Maximum Detected	2.944
Mean of Detected	0.911	Mean of Detected	-1.115
SD of Detected	2.383	SD of Detected	1.248
Minimum Non-Detect	0.097	Minimum Non-Detect	-2.333
Maximum Non-Detect	0.55	Maximum Non-Detect	-0.598

Note: Data have multiple DLs - Use of KM Method is recommende		Number treated as Non-Detect	67
For all methods (except KM, DL/2, and ROS Methods),		Number treated as Detected	23
Observations < Largest ND are treated as NDs		Single DL Non-Detect Percentage	74.44%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.359	Lilliefors Test Statistic	0.102
5% Lilliefors Critical Value	0.0991	5% Lilliefors Critical Value	0.0991
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.819	Mean	-1.286
SD	2.26	SD	1.282
95% DL/2 (t) UCL	1.215	95% H-Stat (DL/2) UCL	0.887

Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-1.278
		SD in Log Scale	1.27
		Mean in Original Scale	0.819
		SD in Original Scale	2.26
		95% t UCL	1.215
		95% Percentile Bootstrap UCL	1.255
		95% BCA Bootstrap UCL	1.514
		95% H-UCL	0.876

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.589	Data do not follow a Discernable Distribution (0.05)
Theta Star	1.546	
nu star	94.32	

		Nonparametric Statistics	
A-D Test Statistic	5.092	Kaplan-Meier (KM) Method	
5% A-D Critical Value	0.808		
K-S Test Statistic	0.808	Mean	0.821
5% K-S Critical Value	0.105	SD	2.247
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.238
		95% KM (t) UCL	1.217
Assuming Gamma Distribution		95% KM (z) UCL	1.213
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	1.217
Minimum	1.00E-06	95% KM (bootstrap t) UCL	1.81
Maximum	19	95% KM (BCA) UCL	1.31
Mean	0.81	95% KM (Percentile Bootstrap) UCL	1.257
Median	0.21	95% KM (Chebyshev) UCL	1.86
SD	2.263	97.5% KM (Chebyshev) UCL	2.309
k star	0.296	99% KM (Chebyshev) UCL	3.192
Theta star	2.741		
Nu star	53.2	Potential UCLs to Use	
AppChi2	37.44	95% KM (Chebyshev) UCL	1.86
95% Gamma Approximate UCL (Use when n >= 40)	1.151		
95% Adjusted Gamma UCL (Use when n < 40)	1.158		

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Copper

General Statistics - Data units are mg/kg.

Number of Valid Observations	90	Number of Distinct Observations	47
Raw Statistics		Log-transformed Statistics	
Minimum	5.2	Minimum of Log Data	1.649
Maximum	130	Maximum of Log Data	4.868
Mean	25.25	Mean of log Data	2.973
Geometric Mean	19.56	SD of log Data	0.685
Median	17		
SD	21.57		
Std. Error of Mean	2.273		
Coefficient of Variation	0.854		
Skewness	2.387		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.214	Lilliefors Test Statistic	0.126
Lilliefors Critical Value	0.0934	Lilliefors Critical Value	0.0934
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	29.03	95% H-UCL	28.58
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	33.17
95% Adjusted-CLT UCL (Chen-1995)	29.61	97.5% Chebyshev (MVUE) UCL	36.86
95% Modified-t UCL (Johnson-1978)	29.13	99% Chebyshev (MVUE) UCL	44.11
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.044	Data do not follow a Discernable Distribution (0.05)	
Theta Star	12.35		
MLE of Mean	25.25		
MLE of Standard Deviation	17.66		
nu star	368		
Approximate Chi Square Value (.05)	324.5	Nonparametric Statistics	
Adjusted Level of Significance	0.0473	95% CLT UCL	28.99
Adjusted Chi Square Value	323.9	95% Jackknife UCL	29.03
		95% Standard Bootstrap UCL	29.06
Anderson-Darling Test Statistic	2.406	95% Bootstrap-t UCL	29.86
Anderson-Darling 5% Critical Value	0.764	95% Hall's Bootstrap UCL	29.88
Kolmogorov-Smirnov Test Statistic	0.168	95% Percentile Bootstrap UCL	29.31
Kolmogorov-Smirnov 5% Critical Value	0.0954	95% BCA Bootstrap UCL	29.54
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	35.16
		97.5% Chebyshev(Mean, Sd) UCL	39.45
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	47.87
95% Approximate Gamma UCL (Use when n >= 40)	28.64		
95% Adjusted Gamma UCL (Use when n < 40)	28.69		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	35.16

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Lead

General Statistics - Data units are mg/kg.

Number of Valid Observations	90	Number of Distinct Observations	60

Raw Statistics		Log-transformed Statistics	
Minimum	10	Minimum of Log Data	2.303
Maximum	250	Maximum of Log Data	5.521
Mean	73.93	Mean of log Data	4.061
Geometric Mean	58.02	SD of log Data	0.726
Median	57		
SD	51.52		
Std. Error of Mean	5.431		
Coefficient of Variation	0.697		
Skewness	1.23		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.136	Lilliefors Test Statistic	0.0767
Lilliefors Critical Value	0.0934	Lilliefors Critical Value	0.0934
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	82.96	95% H-UCL	88.32
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	103.1
95% Adjusted-CLT UCL (Chen-1995)	83.62	97.5% Chebyshev (MVUE) UCL	115.2
95% Modified-t UCL (Johnson-1978)	83.08	99% Chebyshev (MVUE) UCL	138.9

Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.149	Data appear Gamma Distributed at 5% Significance Level	
Theta Star	34.41		
MLE of Mean	73.93		
MLE of Standard Deviation	50.43		
nu star	386.8		
Approximate Chi Square Value (.05)	342.2	Nonparametric Statistics	
Adjusted Level of Significance	0.0473	95% CLT UCL	82.87
Adjusted Chi Square Value	341.5	95% Jackknife UCL	82.96
		95% Standard Bootstrap UCL	82.99
Anderson-Darling Test Statistic	0.457	95% Bootstrap-t UCL	84.7
Anderson-Darling 5% Critical Value	0.764	95% Hall's Bootstrap UCL	83.87
Kolmogorov-Smirnov Test Statistic	0.0719	95% Percentile Bootstrap UCL	83.04
Kolmogorov-Smirnov 5% Critical Value	0.0953	95% BCA Bootstrap UCL	83.2
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	97.61
		97.5% Chebyshev(Mean, Sd) UCL	107.9
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	128
95% Approximate Gamma UCL (Use when n >= 40)	83.57		
95% Adjusted Gamma UCL (Use when n < 40)	83.73		

Potential UCL to Use	Use 95% Approximate Gamma UCL	83.57

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Manganese

General Statistics - Data units are mg/kg.

Number of Valid Observations	103	Number of Distinct Observations	79
Raw Statistics		Log-transformed Statistics	
Minimum	18	Minimum of Log Data	2.89
Maximum	37000	Maximum of Log Data	10.52
Mean	2420	Mean of log Data	5.898
Geometric Mean	364.3	SD of log Data	1.776
Median	280		
SD	6370		
Std. Error of Mean	627.6		
Coefficient of Variation	2.632		
Skewness	3.688		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.363	Lilliefors Test Statistic	0.145
Lilliefors Critical Value	0.0873	Lilliefors Critical Value	0.0873
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	3462	95% H-UCL	3002
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	3632
95% Adjusted-CLT UCL (Chen-1995)	3696	97.5% Chebyshev (MVUE) UCL	4469
95% Modified-t UCL (Johnson-1978)	3500	99% Chebyshev (MVUE) UCL	6114
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.351	Data do not follow a Discernable Distribution (0.05)	
Theta Star	6903		
MLE of Mean	2420		
MLE of Standard Deviation	4087		
nu star	72.21		
Approximate Chi Square Value (.05)	53.65	Nonparametric Statistics	
Adjusted Level of Significance	0.0477	95% CLT UCL	3452
Adjusted Chi Square Value	53.42	95% Jackknife UCL	3462
		95% Standard Bootstrap UCL	3451
Anderson-Darling Test Statistic	9.992	95% Bootstrap-t UCL	3847
Anderson-Darling 5% Critical Value	0.854	95% Hall's Bootstrap UCL	3657
Kolmogorov-Smirnov Test Statistic	0.262	95% Percentile Bootstrap UCL	3505
Kolmogorov-Smirnov 5% Critical Value	0.0956	95% BCA Bootstrap UCL	3635
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	5156
		97.5% Chebyshev(Mean, Sd) UCL	6339
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	8665
95% Approximate Gamma UCL (Use when n >= 40)	3257		
95% Adjusted Gamma UCL (Use when n < 40)	3271		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	5156

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Zinc

General Statistics - Data units are mg/kg.

Number of Valid Observations	90	Number of Distinct Observations	64
Raw Statistics		Log-transformed Statistics	
Minimum	19	Minimum of Log Data	2.944
Maximum	990	Maximum of Log Data	6.898
Mean	118.4	Mean of log Data	4.259
Geometric Mean	70.74	SD of log Data	0.885
Median	63.5		
SD	173.7		
Std. Error of Mean	18.31		
Coefficient of Variation	1.467		
Skewness	3.126		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.319	Lilliefors Test Statistic	0.134
Lilliefors Critical Value	0.0934	Lilliefors Critical Value	0.0934
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	148.9	95% H-UCL	127.8
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	152.9
95% Adjusted-CLT UCL (Chen-1995)	155	97.5% Chebyshev (MVUE) UCL	174.1
95% Modified-t UCL (Johnson-1978)	149.9	99% Chebyshev (MVUE) UCL	215.7
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.077	Data do not follow a Discernable Distribution (0.05)	
Theta Star	109.9		
MLE of Mean	118.4		
MLE of Standard Deviation	114.1		
nu star	193.9		
Approximate Chi Square Value (.05)	162.7	Nonparametric Statistics	
Adjusted Level of Significance	0.0473	95% CLT UCL	148.6
Adjusted Chi Square Value	162.3	95% Jackknife UCL	148.9
		95% Standard Bootstrap UCL	149.5
Anderson-Darling Test Statistic	6.695	95% Bootstrap-t UCL	159.2
Anderson-Darling 5% Critical Value	0.78	95% Hall's Bootstrap UCL	155.4
Kolmogorov-Smirnov Test Statistic	0.212	95% Percentile Bootstrap UCL	149.8
Kolmogorov-Smirnov 5% Critical Value	0.0968	95% BCA Bootstrap UCL	154.6
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	198.3
		97.5% Chebyshev(Mean, Sd) UCL	232.8
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	300.6
95% Approximate Gamma UCL (Use when n >= 40)	141.2		
95% Adjusted Gamma UCL (Use when n < 40)	141.6		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	198.3

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.