

FINAL

EAST PASTURE ORDNANCE INVESTIGATION REPORT



Prepared for:

DEPARTMENT OF THE ARMY

CAMP STANLEY STORAGE ACTIVITY

BOERNE, TEXAS

APRIL 2009

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Acronyms and Abbreviations

AFCEE	Air Force Center for Environmental Excellence
AOC	Area of Concern
APHE	Armor-piercing high explosives
ATV	All-terrain vehicle
bgs	Below ground surface
CSSA	Camp Stanley Storage Activity
CY	Cubic yard
EM	Electromagnetic
EOD	Explosive ordnance disposal
GPS	Global positioning system
ID	Identification
mm	Millimeter
msl	Mean sea level
mV	MilliVolt
RMU	Range Management Unit
SWMU	Solid Waste Management Unit
TO	Task Order
UXO	Unexploded ordnance
WP	White Phosphorus

SECTION 1

INTRODUCTION

1.1 SCOPE AND PURPOSE

Portions of Camp Stanley Storage Activity's (CSSA) East Pasture area have been used for training for more than 50 years, and there are no known detailed records regarding the specific location and types of munitions used during training. Due to increased training requirements, additional range facilities are being constructed in this area and additional range maintenance activities are occurring. Because a portion of these areas are part of an active range management unit (RMU), designated RMU-1, and adjacent areas are formerly used training areas there is potential for finding munitions on the ground surface and buried within the subsurface. Construction efforts were initiated in the East Pasture in early 2005, but CSSA suspended them when ordnance items and white phosphorus (WP) were encountered in the site subsurface. Parsons provided unexploded ordnance (UXO) construction support and investigation to reduce the risk associated with possible remaining munitions items. This report documents the UXO investigations and construction support actions conducted in the East Pasture between April 2005 and January 2007.

In early 2005, CSSA first identified areas in the East Pasture that were slated for future construction activities so that ordnance investigation and construction support could be completed in appropriate areas. Because construction planning in the East Pasture is on-going, the areas identified as requiring ordnance investigation and construction support evolved over the course of the project. Consequently, the work was completed in six phases (general timeframes are provided in parentheses):

- Phase 1: UXO investigation at Building 706 Long Firing Range, Building 707 Shoot House, and Building 709 Test Facility (April 2005);
- Phase 2: UXO investigation at Future Machine Gun Range (January 2006);
- Phase 3: UXO investigation and construction support at Future Road Areas, Septic Tank Area, and AOC-59 Soil Mound (March 2006);
- Phase 4: UXO investigation and construction support (July and August 2006);
- Phase 5: UXO investigation and construction support at Infirmary Area, East Pasture Main Entrance Road, Tunnel/Trench Area, and Outer Road (September – December 2006); and
- Phase 6: UXO Investigation at Building 709 Parking Area and Tunnel/Trench Area (January 2007).

The locations of the surveyed areas are shown in **Figure 1**. Work conducted during Phases 1 consisted of UXO investigations including geophysical surveys and intrusive anomaly investigations in pre-determined building footprint areas. Phase 3 UXO investigations also began with geophysical survey and intrusive anomaly investigation in a pre-determined footprint area. CSSA then requested construction support for additional areas. Phase 3 construction support activities included leveling of linear mounded areas, surface sweeps of three soil piles,

and surface sweeps of designated fence posthole locations. During Phase 4 and 5 field activities, CSSA requested additional construction support activities. Phase 4 construction support activities included tree clearance along the East Pasture main entrance road; magnetometer sweep of additional fence posthole locations, a suspected former grenade pit, tree piles, and soil mounds north of (behind) the firing berm; and UXO construction support during firebreak construction, controlled burn, soil mound leveling, and railroad track removal. Phase 4 also included UXO investigations conducted by “mag-and-flag” surveys. Phase 5 construction support activities included tree pile inspection and brush clearing and UXO investigation by “mag-and-flag” surveys. A videotaped ordnance recognition training session was prepared during Phase 5. Additional UXO investigation including a geophysical survey and intrusive anomaly investigation was conducted in pre-determined building, tunnel, and parking lot footprint areas during Phases 5 and 6. These activities are documented in this report.

By January 2007, after completion of the six phases, a total of approximately 65 acres in the East Pasture were geophysically surveyed. Anomalies were investigated in areas where future construction was planned, which consisted of a total of approximately 25 acres. In all, 2,730 anomalies were intrusively investigated within the East Pasture (not including anomalies investigated during “mag-and-flag” intrusive investigations). Thirteen UXO items were encountered during the intrusive investigations and support activities.

The East Pasture ordnance investigation project was performed by Parsons under Air Force Center for Environmental Excellence (AFCEE) Worldwide Environmental Restoration and Construction Contract FA8903-04-D-8675, Task Order (TO) 0017, AFCEE 4P A/E Contract F41624-03-D-8613, TO0179, and AFCEE 4P A/E Contract F41624-03-D-8613, TO0209.

1.1.1 Ordnance Terminology

For clarity, the terminology used in this report is presented below. The type of investigations performed by Parsons included UXO construction support and UXO investigations. Terms used are defined below:

Active Range. A military range that is currently in service and is being regularly used for range activities.

Construction Support. Support provided by qualified UXO personnel during construction activities to ensure the safety of construction personnel from the harmful effects of UXO. When a determination is made that the probability of encountering UXO is low, a UXO team will stand by in case of encounters with suspected UXO. When the probability of encountering UXO is medium to high, UXO teams are required to conduct subsurface UXO removal prior to any planned construction. This level of effort is to be determined on a case-by-case basis.

Munitions Debris. Remnants of munitions (e.g., penetrators, projectiles, shell casings, links, fins) remaining after munitions use, demilitarization or disposal. Munition debris do not contain explosives or pyrotechnics, and include practice munitions without spotting charges, inert training munitions, expended ejection munitions, or any fragments of exploded/destroyed military munitions that do not contain explosives or pyrotechnics.

Unexploded ordnance. Explosive ordnance that has been primed, fuzed, armed, or otherwise prepared for action, and that has been fired, placed, dropped, launched, projected

or placed in such a manner as to constitute a hazard to operations, installations, personnel, or material and remains unexploded either by malfunction or design or for any other cause.

UXO Investigation. Investigations conducted to identify anomalies potentially indicative of UXO or munitions debris. UXO investigation includes geophysical surveys (digital and analog/“mag-and-flag” surveys) and intrusive anomaly investigation of selected anomalies performed in support of active range operations.

The purpose of the construction support provided was to provide anomaly avoidance for construction personnel during construction or range maintenance activities. The purpose of the UXO investigation was to locate, identify, and investigate UXO and munitions debris items in future construction areas and areas where East Pasture range maintenance activities were being conducted. All UXO items identified during this investigation were removed, detonated, or otherwise destroyed by active military explosive ordnance disposal (EOD) units from either Fort Sam Houston or Lackland Air Force Base.

The identification and removal of subsurface ordnance-related items is intended to reduce the risk of construction personnel encountering a UXO item on this active range. Buried metal objects were identified using geophysical equipment suitable for the geology and anticipated size and depth of items in the East Pasture. Selected magnetic anomalies, based on their size and geophysical “signature,” were investigated. Anomalies considered unlikely to be ordnance related items (nails, bolts, utilities, etc.) were not investigated.

1.1.2 Report Organization

The organization of this document generally follows the format used for numerous investigation reports previously prepared for CSSA. Section 1 provides the site-specific background and a description of the environmental setting. Section 2 describes the field investigation activities conducted. Section 3 summarizes the findings. Section 4 provides the conclusions and recommendations. References cited in this report can be found in the **Bibliography (Volume 1-1, Environmental Encyclopedia)**.

1.2 BACKGROUND AND SITE DESCRIPTION

1.2.1 CSSA

General information regarding the history and environmental setting of CSSA is provided in the CSSA Environmental Encyclopedia (**Volume 1-1, Background Information Report**). Data regarding the geology, hydrology, and physiography are also available for reference in the **Background Information Report**.

1.2.2 East Pasture

1.2.2.1 Site Location

The East Pasture constitutes the southeastern portion of CSSA. It is approximately 830 acres, measuring roughly 8,250 feet north-south and 4,400 feet east-west. The eastern and southern boundaries of the East Pasture form portions of the eastern and southern boundaries of CSSA, while the northern and western boundaries are adjacent to CSSA’s North Pasture and

Inner Cantonment boundaries, respectively. **Figure 1** shows the site location and survey areas within CSSA.

1.2.2.2 Site Description

The UXO investigation and construction support performed was conducted in the southwestern corner of the East Pasture. These areas generally consist of relatively flat, open, mowed areas or roads. The vegetation is maintained so range activities may be conducted. More densely vegetated areas (large trees and dense brush) are present north of the current firing berm. Small arms training activities are currently performed within RMU-1. Historically, other parts of the investigation area are known to have been used for munitions training. Historical aerial photographs of the East Pasture area are included in **Figure 2**.

Area of Concern (AOC)-59, which is located immediately east of the proposed Machine Gun Range location, was concurrently investigated during Phase 2 of the East Pasture UXO investigations. Findings of the AOC-59 investigation will be documented in a separate report.

1.3 SITE ENVIRONMENTAL SETTING

1.3.1 Site Soil and Topography

The predominant soil type in the investigation area is Trinity and Frio, with small portions of the investigation area lying on Brackett, Krum Complex, or Crawford and Bexar Stony soil. Bedrock outcroppings are present along road areas. The depth to bedrock in some areas is as deep as 5-6 feet. **Figure 3** shows the topography and soil types present in and around the survey area.

Trinity and Frio soil covers approximately 9 percent (352.4 acres) of CSSA. This soil type is subject to flooding, and is the main channel soil for Salado Creek and a large unnamed tributary that joins the creek in southwestern CSSA. Some areas are subject to thin sediment depositions, while other areas are scoured. Channels are poorly defined and are of small capacity. Trinity soil is composed of clayey to gravelly loam and is 3 to 5 feet deep. Frio soil is a dark gray-brown clay loam, 3 to 4 feet deep. Detailed descriptions of the other CSSA soil types are provided in the CSSA Environmental Encyclopedia (**Volume 1-1, Background Information Report, Soil and Geology**).

The investigation area contains gentle topographic relief, but lies just west of a hilly area with steep topographic relief, located in the extreme southeastern corner of CSSA and the East Pasture. The elevation of the investigation area ranges from approximately 1,170 feet above mean sea level (msl) to approximately 1,205 feet msl, sloping to the southwest.

1.3.2 Geology

The Upper Glen Rose Limestone member is the uppermost geologic stratum in the investigation area (**Figure 4, Geologic Setting**). The Upper Glen Rose consists of beds of blue shale, limestone, and marly limestone, with occasional gypsum beds. Generally, it outcrops in stream valleys and at the ground surface where the soil is poorly developed or eroded. Where present at CSSA, the thickness of the Upper Glen Rose varies up to 150 feet. The geologic strata dip approximately 10 to 12 degrees to the south-southeast at CSSA.

The southern portion of the investigation area consists of the Upper Glen Rose, but the Lower Glen Rose Limestone member is exposed on the northern side of the faulting that transects the investigation area. The thickness of the Lower Glen Rose averages 320 feet and is a massive, fossiliferous, vuggy limestone that grades upwards into thin beds of limestone, marl, and shale. The Lower Glen Rose is underlain by the Bexar Shale facies of the Hensell Sand (averaging 60 feet thick). Additional information on structural geology at CSSA can be found in the Environmental Encyclopedia (**Volume 5-1, Hydrogeologic Conceptual Site Model**).

1.3.3 Hydrology

In general, the uppermost hydrologic layer at CSSA is the unconfined Upper Trinity aquifer, which consists of the Upper Glen Rose Limestone. Locally at CSSA, low-yielding perched zones of groundwater can exist in the Upper Glen Rose. Transmissivity values are not available for the Upper Glen Rose.

The nearest surface water features to the investigation area are intermittent tributaries of Salado Creek. One of the tributaries runs east-west and the other runs north-south. Both tributaries cross portions of the investigation area (**Figure 3, Soil and Topography Map**). The tributaries of Salado Creek generally run north-south. The firing berm on the north end of the East Pasture range area channels surface water flow to the west from topographically high areas to the east.

1.3.4 Cultural Resources

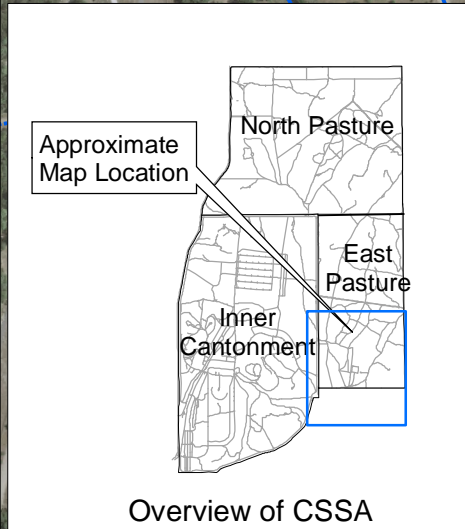
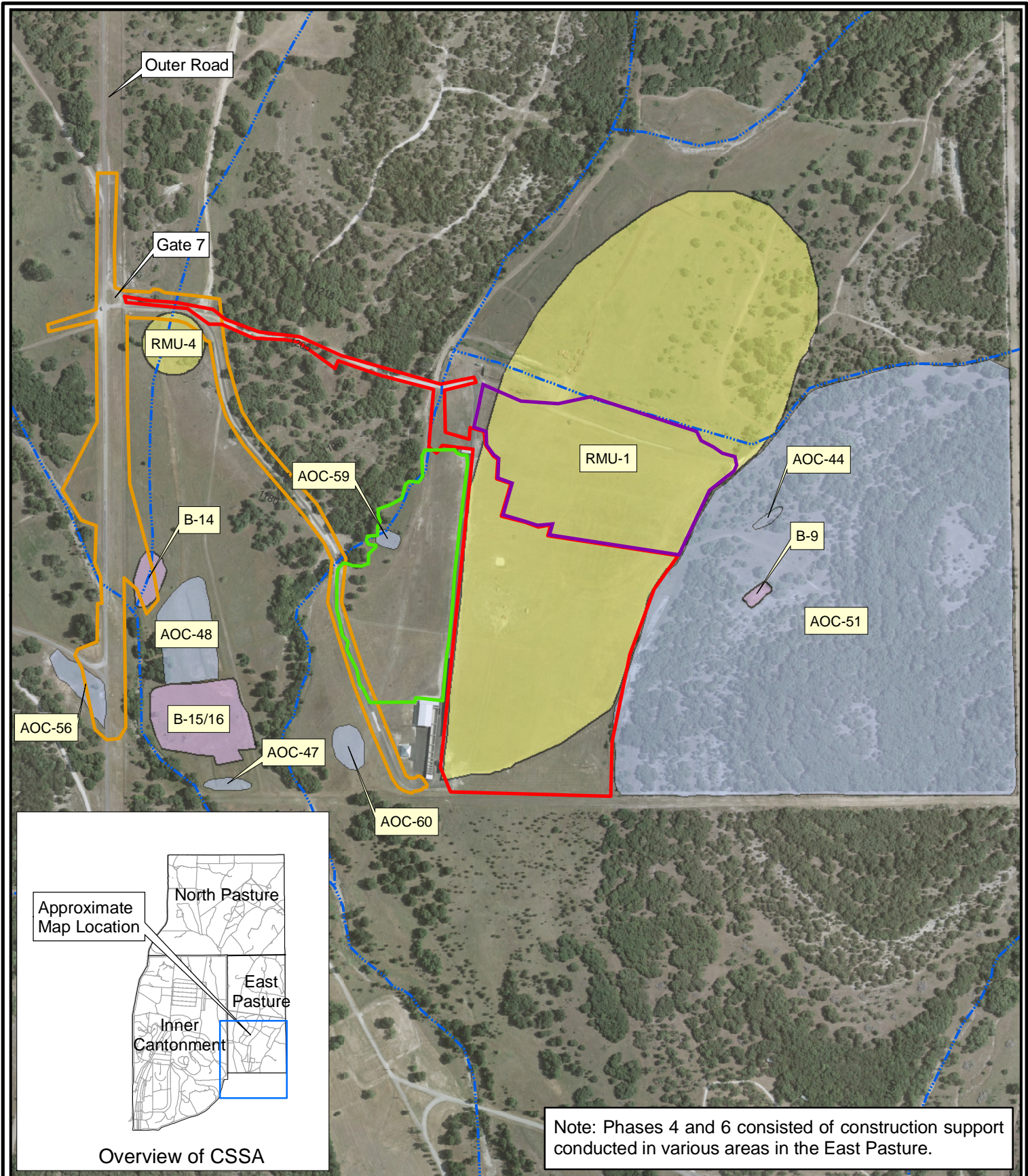
Cultural resources are prehistoric and historic sites, structures, districts, artifacts, or any other physical evidence of human activity considered important to a culture, subculture, or community for scientific, traditional, or religious purposes.

An old target range built in 1907 (site number 41BX1188) is located within the survey area, and World War I “zigzag” trenches and foxholes (site number 41BX1189) are located north of the investigation area (**Figure 5, Potential Sites Eligible for National Register of Historic Places**). These sites are potentially eligible for listing in the National Register of Historic Places, per the Archaeological Survey of CSSA dated March 1998. Additional information regarding these sites is provided in the East Pasture Munitions Test Facilities Environmental Review. No excavation was conducted within either of the potentially eligible sites.

1.4 PREVIOUS INVESTIGATIONS

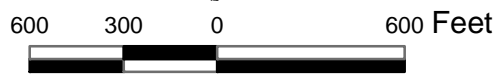
No previous investigations have been performed within the investigation area. As shown in **Figure 1**, the investigation area is surrounded by various solid waste management units (SWMU) and AOCs. SWMU B-9 (closed), AOC-51, and AOC-44 (delisted) lie to the east of the investigation area, while AOC-59, AOC-60 (delisted), AOC-48 (delisted), AOC-47 (closed), SWMU B-15/16, and SWMU B-14 (delisted) lie to the west of the investigation area.

AOC-59 was investigated during the East Pasture Ordnance Investigation, and the results, documented in a separate report, indicate no contamination or waste present at the site. AOC-51 is located in the southeast corner of CSSA, in the east pasture. AOC-51 covers approximately 72 acres, and it surrounds SWMU B-9 and AOC-44. UXO items were observed at the site during cedar clearing activities in the spring of 1997.



Note: Phases 4 and 6 consisted of construction support conducted in various areas in the East Pasture.

Aerial Photo Date: 2003



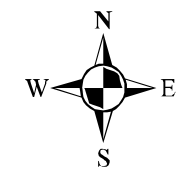
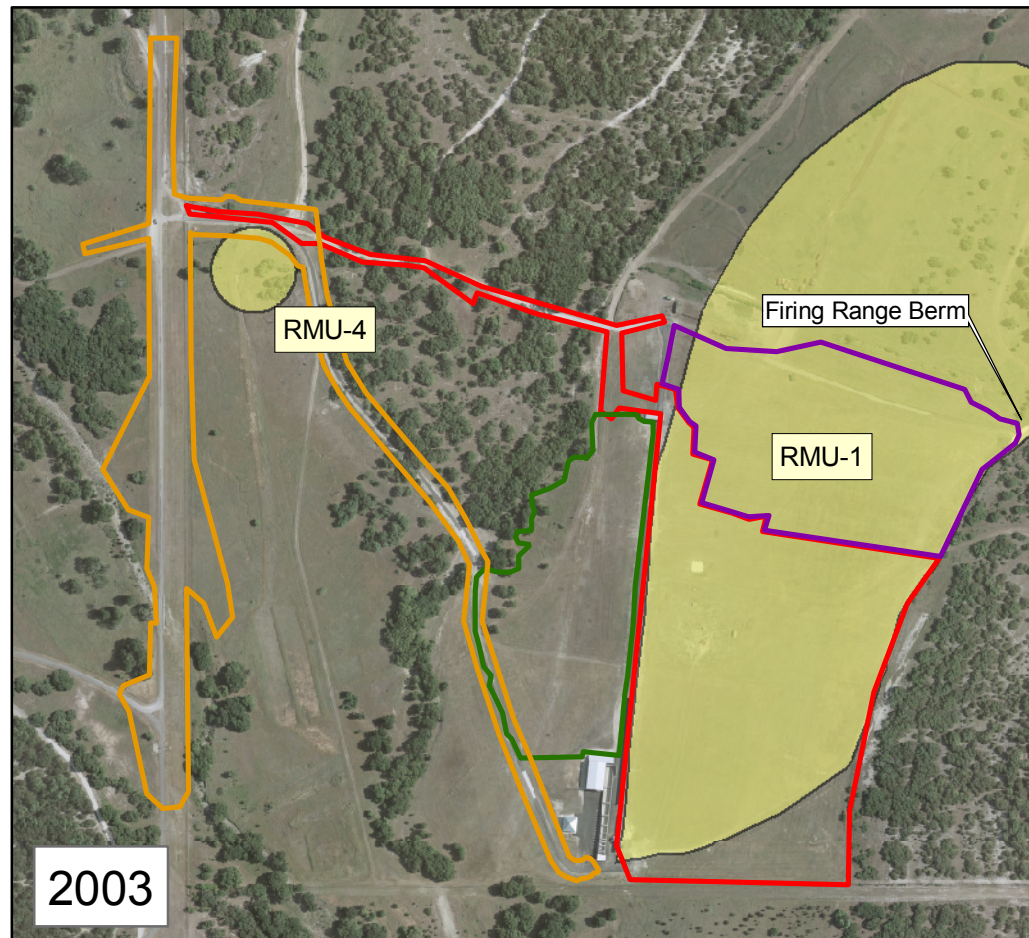
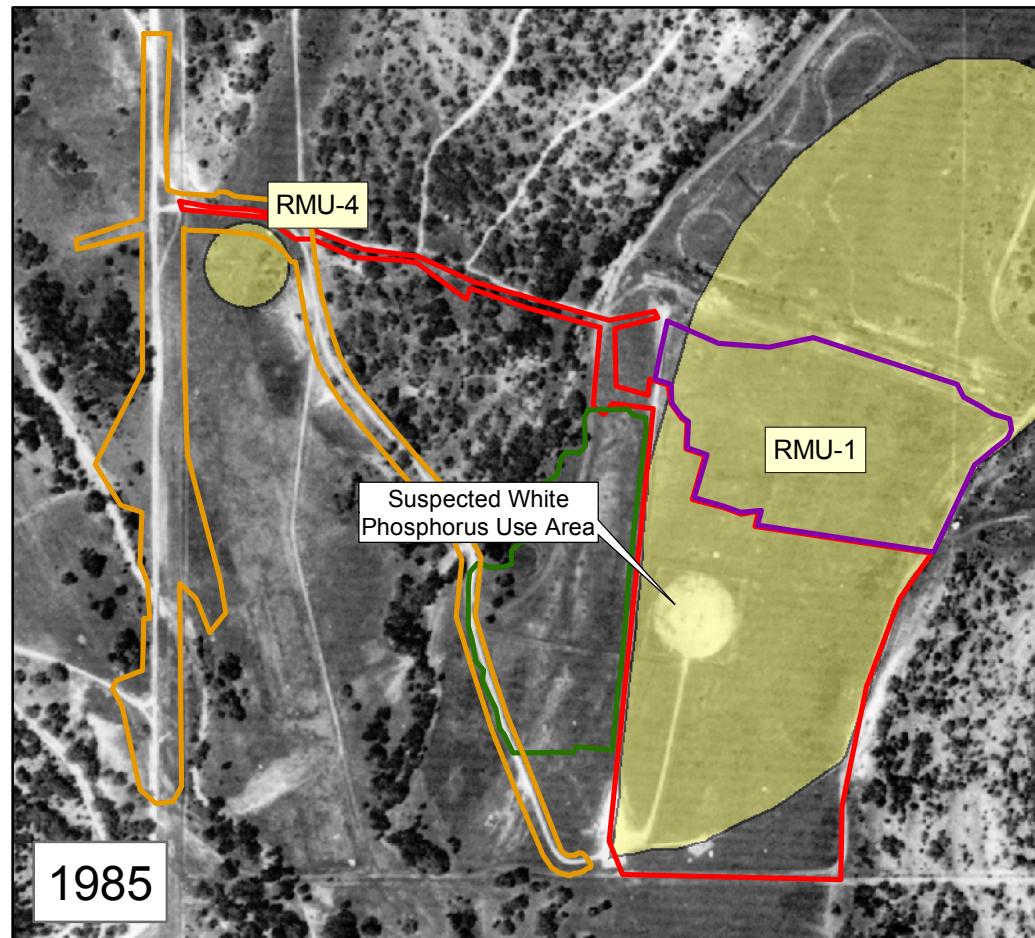
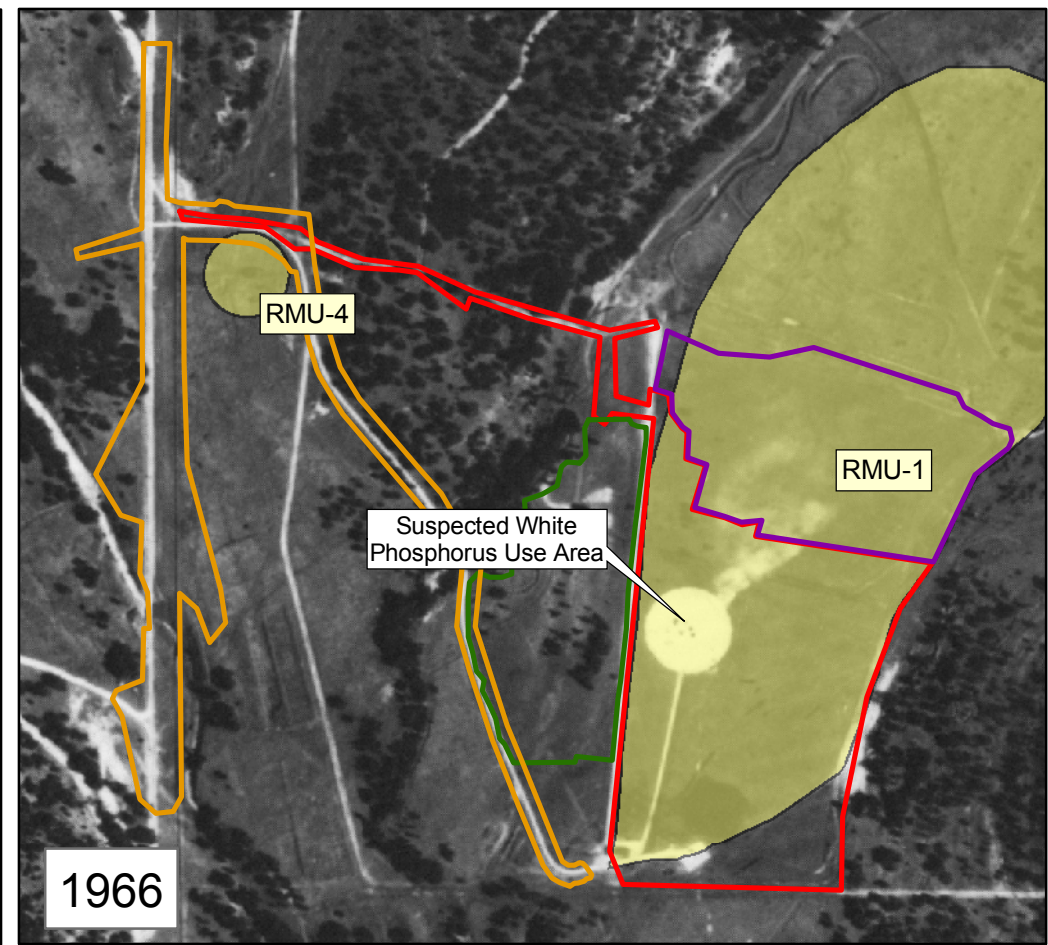
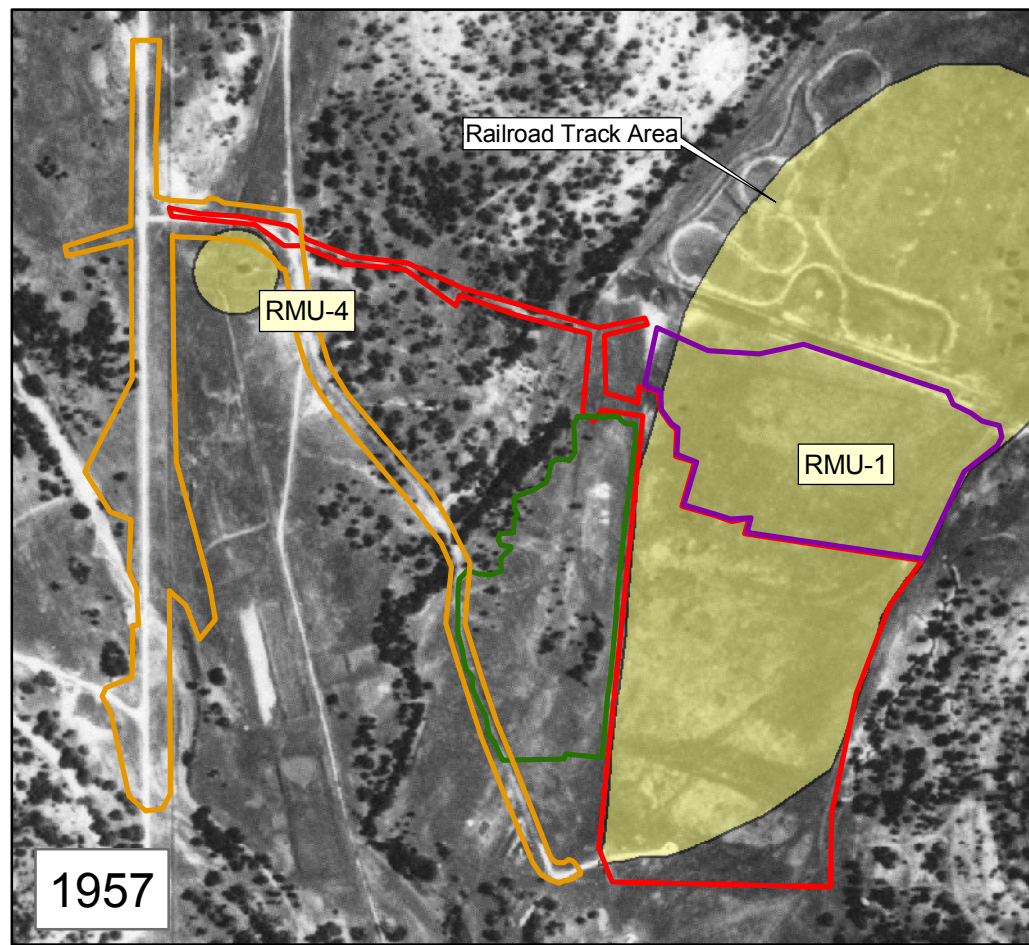
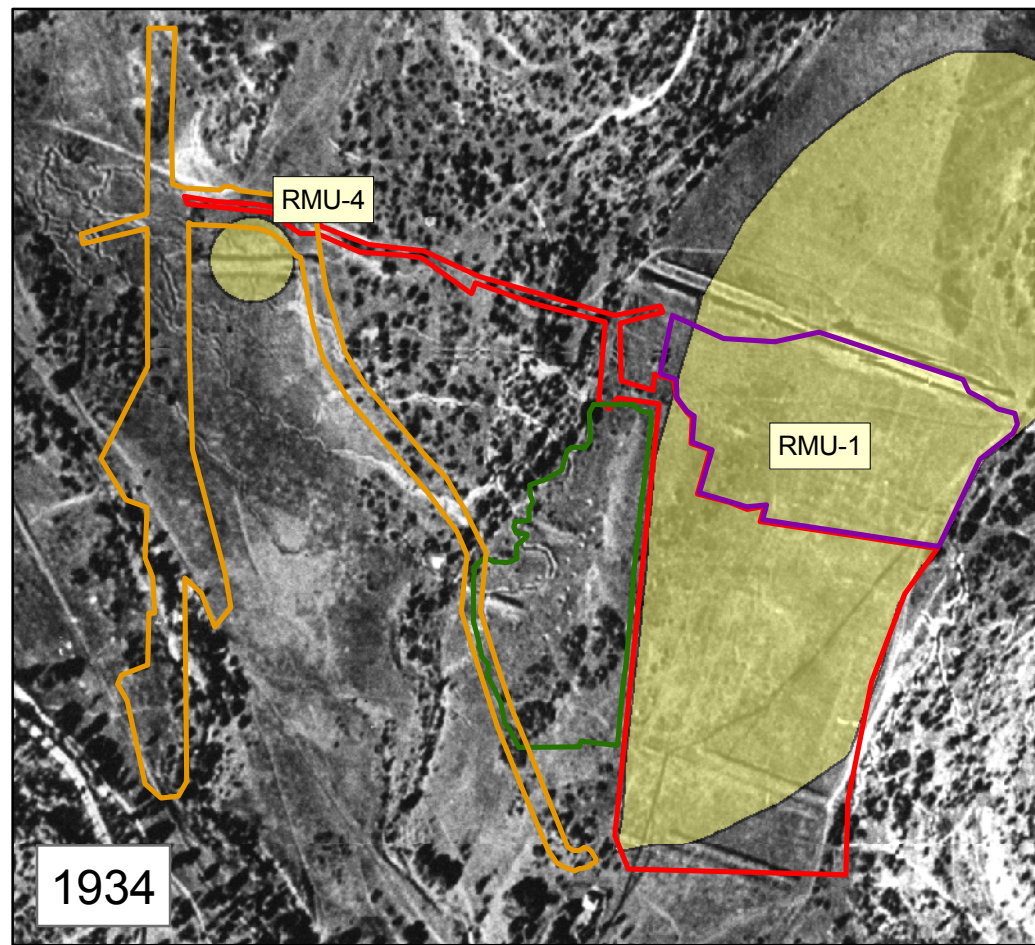
- Creeks (Dashed where intermittent)
- AOCs
- RMUs
- SWMUs
- Phase 1 Survey Area
- Phase 2 Survey Area
- Phase 3 Survey Area
- Phase 5 Survey Area

Figure 1

Site Location Map

Camp Stanley Storage Activity

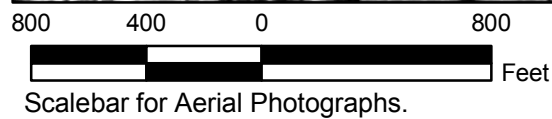
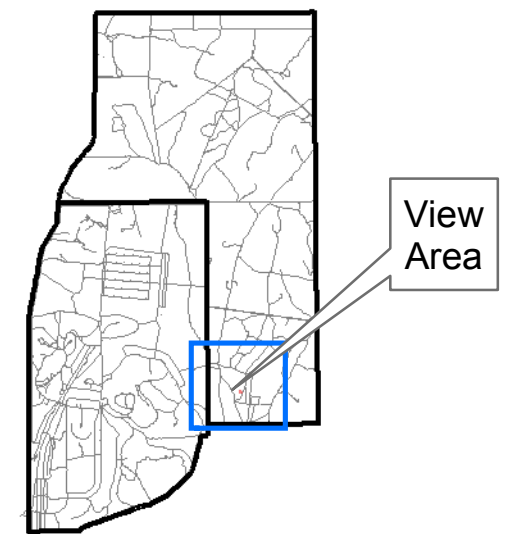
Parsons



Legend

- Phase 5
- Phase 3
- Phase 2
- Phase 1
- RMU

CSSA Reference Map

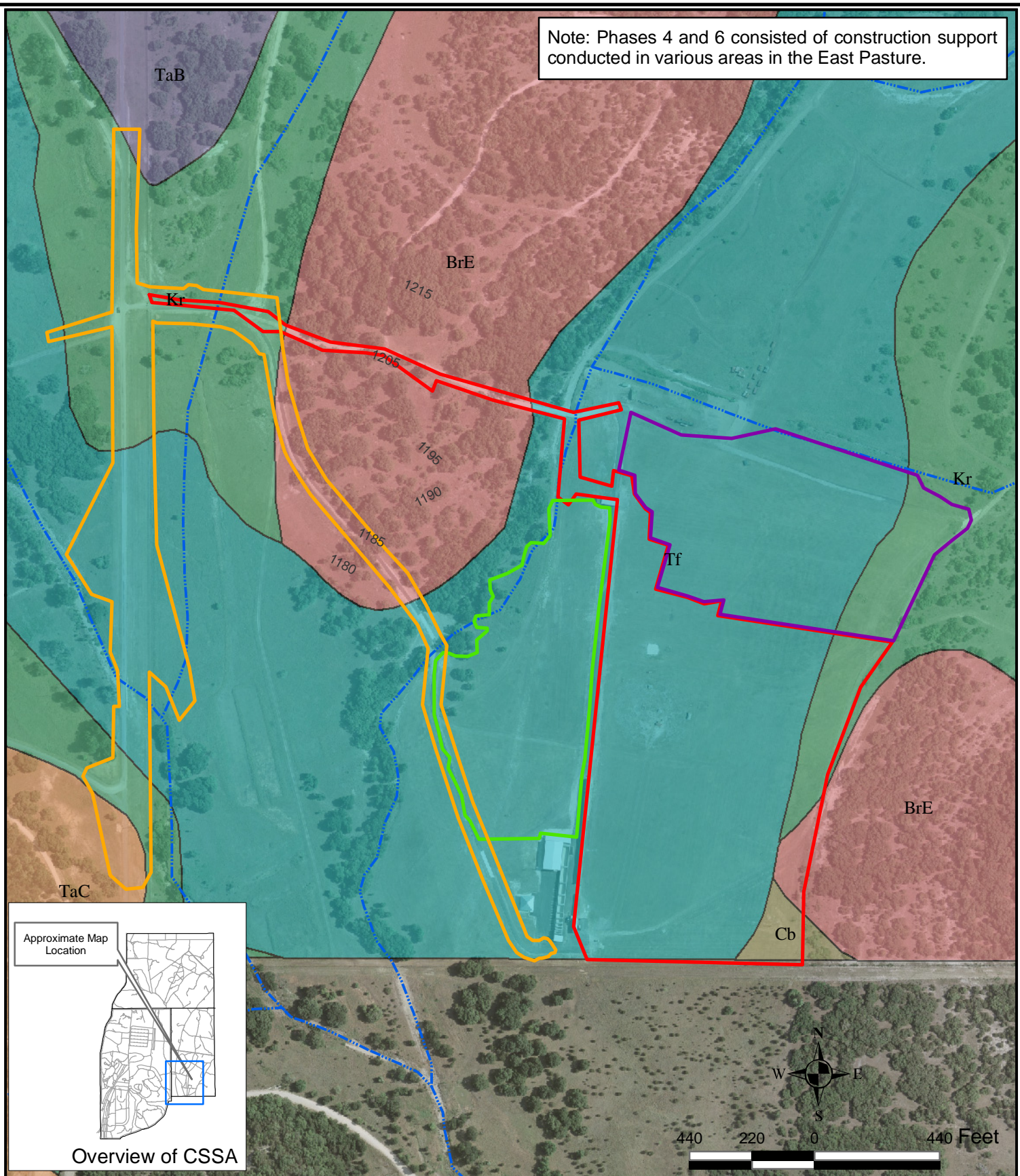


Note: Phases 4 and 6 consisted of construction support conducted in various areas in the East Pasture.

Figure 2
East Pasture
Aerial Photographs
Camp Stanley Storage Activity

PARSONS

Note: Phases 4 and 6 consisted of construction support conducted in various areas in the East Pasture.



- Soil Types Found at CSSA**
- BrE Brackett Soils, 12-30% Slopes
 - BrF Brackett-Tarrant Association, Hilly
 - Cb Crawford & Bexar, Stony Soils
 - Kr Krum Complex
 - LvB Lewisville, Silty Clay 1-3% Slopes
 - TaB Tarrant Association, Gently Undulating
 - TaC Tarrant Association, Rolling
 - Tf Trinity & Frio Soils, Frequently Flooded
- Phase 1 Survey Area
 - Phase 2 Survey Area
 - Phase 3 Survey Area
 - Phase 5 Survey Area
 - Creeks (Dashed where intermittent)
- Note: Surface Topographic Information from 2003 LIDAR Survey. Aerial Photo Date: 2003
 Soil Information Digitized by Parsons from USDA Soil Conservation Service, Bexar Cnty Soil Survey, 1991.

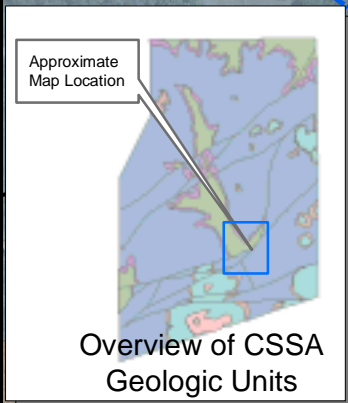
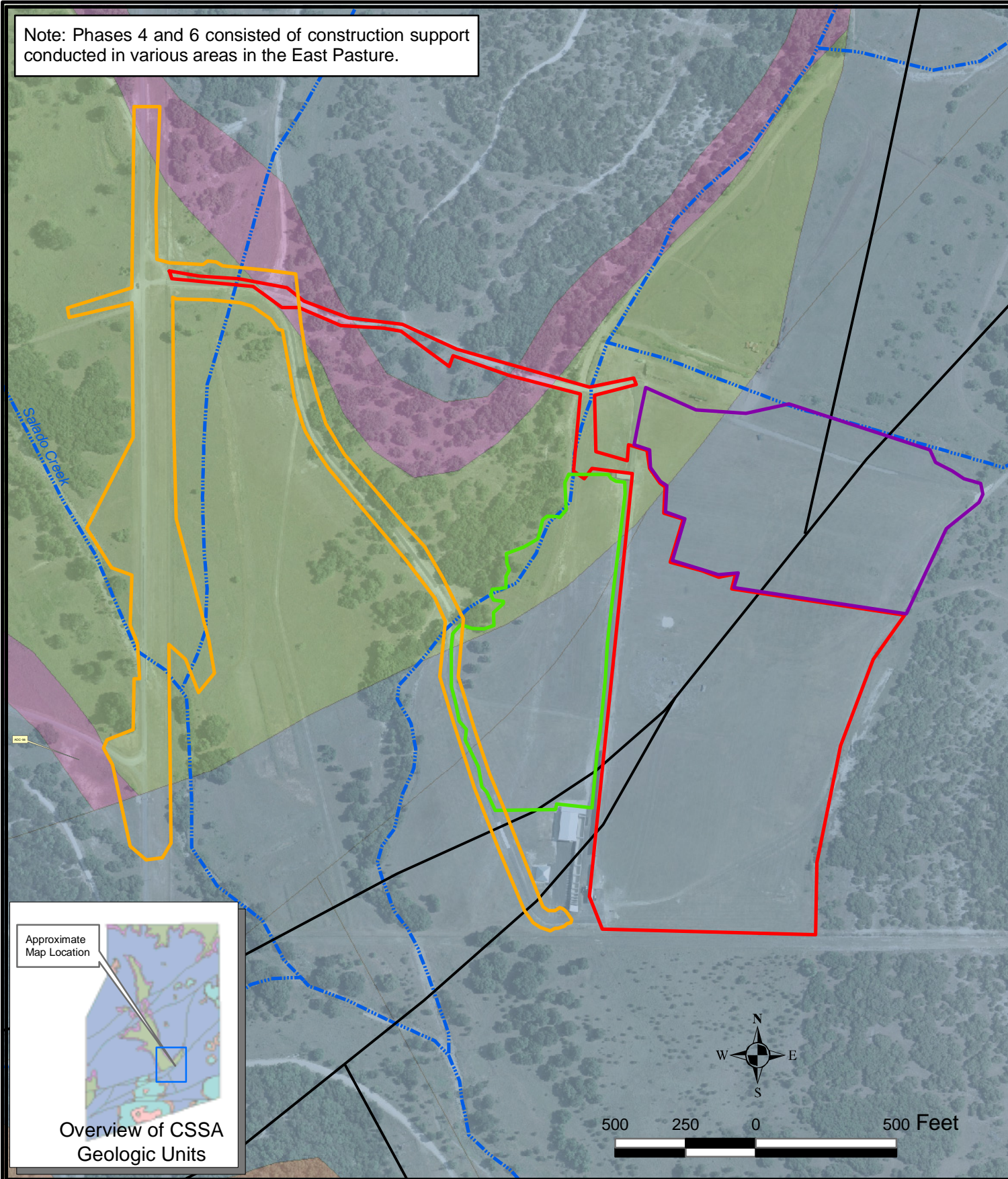
Figure 3

Soils and Topography Map














Camp Stanley Storage Activity

Parsons

Note: Phases 4 and 6 consisted of construction support conducted in various areas in the East Pasture.



Geology (USGS, 2003)

- | | | | |
|--|---|---|------------------------------------|
|  | Edwards Group (basal nodular member) |  | Phase 1 Survey Area |
|  | Upper Glen Rose Limestone member (interval A) |  | Phase 2 Survey Area |
|  | Upper Glen Rose Limestone member (interval B) |  | Phase 3 Survey Area |
|  | Upper Glen Rose Limestone member (interval C) |  | Phase 5 Survey Area |
|  | Upper Glen Rose Limestone member (interval D) |  | Creeks (Dashed where intermittent) |
|  | Upper Glen Rose Limestone member (interval E) |  | Fault Lines |
|  | Lower Glen Rose Limestone member | | |

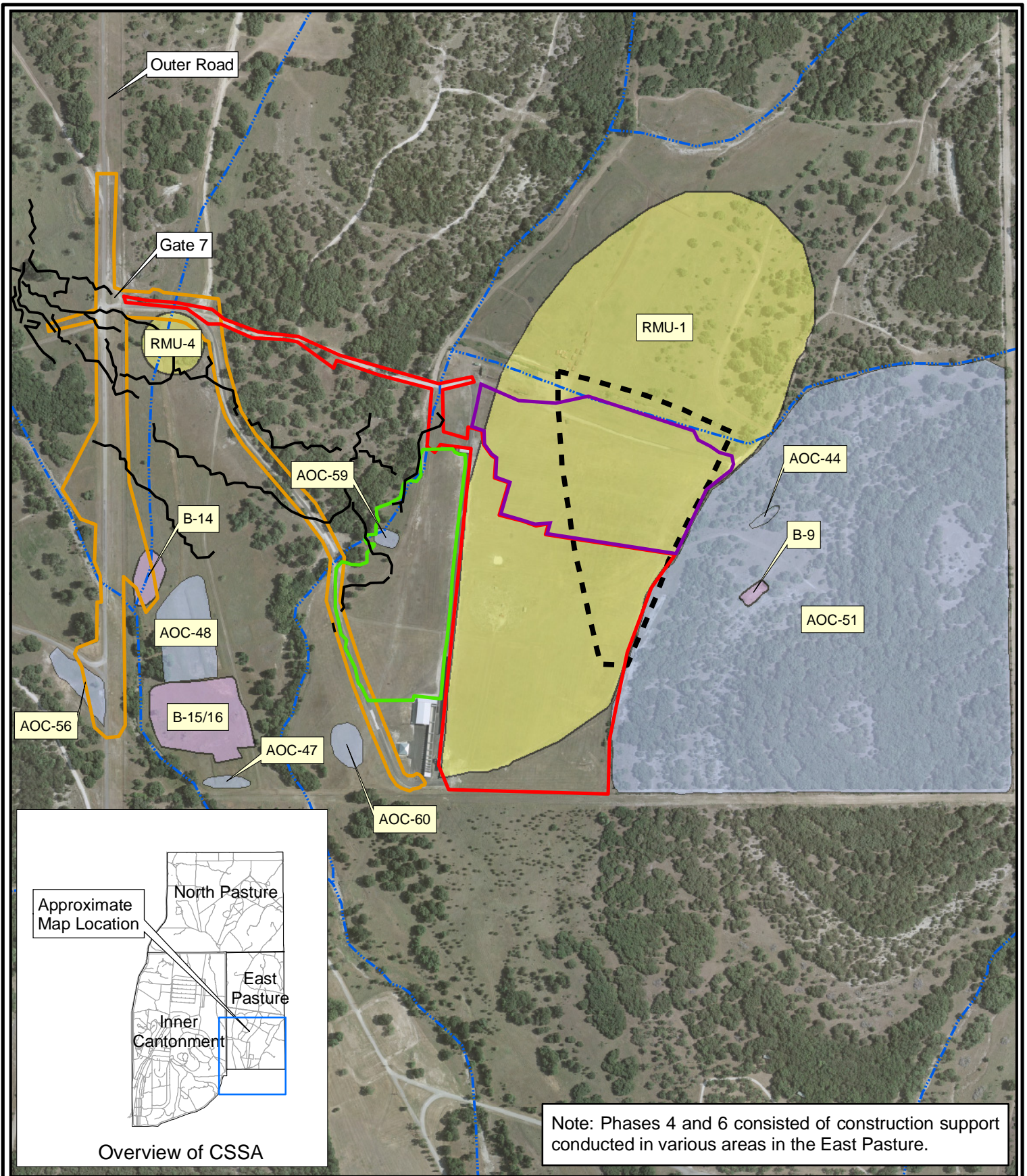
Note: Geologic units and faults were mapped by USGS, 2003. Aerial photo date: 2003.

Figure 4

Geologic Setting

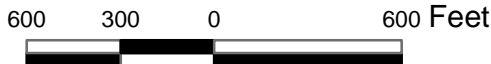
Camp Stanley Storage Activity

Parsons



Note: Phases 4 and 6 consisted of construction support conducted in various areas in the East Pasture.

Aerial Photo Date: 2003



- Creeks (Dashed where intermittent)
- AOCs
- RMUs
- SWMUs
- Phase 1 Survey Area
- Phase 2 Survey Area
- Phase 3 Survey Area
- Phase 5 Survey Area
- NRHP Zigzag Trenches
- NRHP 1907 Target Range

Figure 5
Potential Sites Eligible for National Register of Historic Places
Camp Stanley Storage Activity
 Parsons

SECTION 2

FIELD INVESTIGATION TASKS

The field investigations were conducted in six phases. Each phase included UXO investigation and/or construction support. This section provides a description of the field investigations conducted during each Phase. CSSA provided Parsons with locations for the required investigation areas during each of the project phases so that work could be completed in accordance with CSSA's future plans. The dates and a summary of each phase of the field investigations are included in Table 1.

2.1 OVERVIEW OF INVESTIGATIONS CONDUCTED DURING EACH PHASE

2.1.1 Phase 1

The initial project objectives of the East Pasture UXO investigation in 2005 were to conduct an EM-61 magnetometer geophysical survey over 25 acres of the southern portion of the East Pasture, identify and map ferrous and non-ferrous metal-bearing anomalies in the subsurface of the survey area, and investigate anomalies within 5 acres at and around the areas where future Building 706, 707, and 709 construction activities were scheduled to occur. This UXO investigation was conducted in April 2005 under TO0017.

2.1.2 Phase 2

Due to additional construction plans in the East Pasture area, the scope of the TO0017 project was expanded to include approximately 11 additional EM-61 geophysical survey acres and investigation of anomalies within two acres where construction of a Machine Gun Range was planned. This second phase was conducted in January 2006.

2.1.3 Phase 3

This work included EM-61 geophysical survey of an additional 18 acres and investigation of anomalies within four acres. Investigation of anomalies was completed in the AOC-59 soil mound area, future road areas, and an area where a septic tank was planned. Four soil samples were collected during investigation of the mound. These samples were tested for metals (CSSA 9 metals), volatile organic compounds, and semivolatile organic compounds. Results of the soil sampling are provided in the AOC-59 report. In addition, construction support was conducted during Phase 3, including a sweep for possible ordnance items in seven linear mounded areas and in the location of a planned fenceline. The sweep was performed by UXO personnel using a Schonstedt magnetometer to survey the area and to verify the complete removal of any detected anomalies. Finally, the material in three soil piles was examined to verify that it did not contain any UXO. This third phase of work was completed under TO0179 in March 2006.

2.1.4 Phase 4

Phase 4 investigations were conducted during July and August 2006. This work consisted of construction support activities, including tree clearance along the East Pasture main

entrance road (trees were removed within approximately 30 feet of both sides of road), reinspection of fenceline posthole locations, grenade pit ordnance removal by “mag-and-flag”, completion of a firebreak, oversight of a controlled burn, leveling of mound areas behind the firing berm, removal of old rail tracks behind the firing berm, and tree pile inspection.

2.1.5 Phase 5

Phase 5 of the investigation was conducted during August, September, and November 2006. This work included three geophysical surveys (covering 11 acres), one of which was conducted along Outer Road. Outer Road lies just outside the western fenceline of the East Pasture, within the Inner Cantonment. Ordnance investigations were conducted at the planned infirmary area, East Pasture main entrance road, tunnel/trench area, and Outer Road. Construction support activities completed during Phase 5 include tree pile inspection and brush clearing. A videotaped ordnance recognition training session was also prepared during Phase 5.

2.1.6 Phase 6

Phase 6 activities were conducted during January 2007. This work expanded on intrusive investigations conducted at the tunnel/trench area during Phase 5. Intrusive investigations were also conducted at the Building 709 parking area.

2.2 UXO INVESTIGATIONS

During the UXO investigations, two types of geophysical surveys were conducted: EM-61 magnetometer geophysical surveys and Schonstedt magnetometer “mag-and-flag” sweeps. The UXO investigations also included selection of anomalies for intrusive investigation. Each of these types of activities is described in this section.

2.2.1 Geophysical Surveys

EM-61 geophysical surveys were completed in investigation areas to digitally map locations of buried metal, potentially UXO. Each geophysical survey was accomplished by towing a GPS-equipped EM-61 MKII time-domain metal detection device over the designated survey area and digitally recording locations of all anomalies indicative of buried metal. The EM-61 magnetometer typically detects anomalies from just below ground surface to a depth of 4 feet in clay soil similar to CSSA soils. The EM-61 typically is the preferred instrument for surveys like those conducted at CSSA due to its sensitivity and the fact that anomaly locations and sizes are digitally recorded; however, use of this instrument is more time-consuming than the Schonstedt magnetometer which was also used during some of the East Pasture investigation phases, and the operator must be trained in its use.

2.2.1.1 Geophysical Prove-Out

Prior to completing EM-61 geophysical surveys, a geophysical survey prove-out was performed on test items to provide an instrument and anomaly amplitude reference for the survey data. The test items selected were ordnance items that were considered likely to be encountered within the survey area, based on CSSA’s history and ordnance items that have been found on-post in the past. The test items were buried at depths anticipated for the type of ordnance, and

the geophysical instrument was pulled over the items. The instrument readings produced by the test items provide a comparison standard for the data processor when reviewing the survey data.

The Phase 1 test items included a 4.2-inch Stokes mortar buried 24 inches below ground surface (bgs), a 75 millimeter (mm) projectile buried 24 inches bgs, a 3-inch Stokes mortar buried 12 inches bgs, and an MKII grenade buried 6 inches bgs.

The Phase 2 prove-out test items included a 4-inch Stokes mortar buried 18 inches bgs, a 75mm projectile buried 18 inches bgs, a 3-inch Stokes mortar buried 18 inches bgs, a 37mm projectile buried 6 inches bgs, and a 60mm mortar buried 18 inches bgs.

The Phase 3 prove-out test items included a 4-inch Stokes mortar buried 12 inches bgs, a 75mm projectile buried 14 inches bgs, a 37mm projectile buried 14 inches bgs, and a 60mm mortar buried 16 inches bgs.

The EM-61 was not used during Phases 4 and 6. Phase 5 used existing prove-out data from Phases 1, 2, and 3 for anomaly processing and selection. Prove-out items were removed after the completion of each survey phase.

2.2.1.2 Survey Field Activities

Electromagnetic (EM) geophysical surveys were conducted during the various phases during the dates noted in Section 2.1. During Phase 1, EM data were collected using a towed-array setup with three EM-61 instruments in tow behind a Gator all terrain vehicle (ATV). During Phases 2, 3, and 5, EM data were collected using a towed-array setup with a single EM-61 pulled behind the Gator ATV.

The EM-61 is a time-domain metal detector which detects both ferrous and non-ferrous metals. A transmitter within the instrument generates a pulsed primary magnetic field, which induces eddy currents in nearby metallic objects. The eddy current decay produces a secondary magnetic field, which is then measured by the receiver coil in milliVolts (mV).

EM measurements were recorded in sync with global positioning system (GPS) readings using Maglog Lite logging software. Line spacing during the survey was 2.5 feet, and the survey was set up to collect a data point every 0.3 feet.

The field technician was responsible for observing the data on the field laptop computer during collection, as well as verifying that instruments were working correctly, the GPS was in sync with the survey data, and to generally ensure that the data collection was progressing as planned.

Most survey data were collected with the towed-array setup; however, during some portions of the first survey phase, data from areas too difficult for the ATV to traverse were collected with one EM-61 in a hand-pulled cart setup. During all survey phases, areas that had concrete slabs, other man-made structures, construction materials, and/or large soil mounds were worked around while obtaining as much coverage as possible. The areas that were geophysically surveyed are shown in **Figure 6**. Photographs of the towed-array setups are presented for Phase 1 in **Appendix A**, for **Appendix C**, and **Appendix D**.

The geophysical survey included instrument checks prior to data collection. The instrument was “checked-out” in an area free from cultural interference which included an instrument battery check and static tests. The field team then operated the EM-61 unit in

automatic mode collecting 15 readings per second. The data was reviewed periodically during collection.

Twice each day (depending on the amount of data collected), data collected in the data loggers was downloaded to a laptop computer using the Geonics DAT61 software. At the end of the day, the data was post-processed using Geosoft software.

The data collected with the EM-61 was post-processed remotely after downloading using the software provided with each instrument. Post-processing for EM surveys primarily involved leveling the raw data and checking for correct geo spatial reference. Anomalies selected for intrusive investigation were based on above background values.

2.2.1.3 Data Processing and Anomaly Selection

Once EM-61 data collection was complete, the data were processed and anomalies (locations with a high potential for metallic material) were selected for intrusive investigation. Anomalies were selected based on comparison of the digital survey data to the signatures produced by the target items measured during the prove-out.

The project geophysicist selected 2,730 anomalies within the 65 acres to be investigated (105 anomalies/acre). During cost-estimating for these projects, it was estimated that approximately 30 anomalies/acre would be identified. However, the survey areas had more subsurface metal than anticipated. Several anomalies that were below the lowest threshold of the prove-out items were included for excavation. This provided an extra measure to reduce the risk of not removing any subsurface ordnance-related items.

2.2.1.4 “Mag-and-Flag” Survey

In addition to the digital geophysical surveys described in Section 2.2.1.2, analog geophysical surveys, or “mag-and-flag” surveys were also performed. A Schonstedt magnetometer was utilized for these surveys. The Schonstedt is a hand-held unit that detects changes in the earth's ambient magnetic field caused by ferrous metal. The Schonstedt provides an audio output associated with a ferrous metal target. No digital data is collected by the Schonstedt. “Mag-and-flag” surveys were performed during Phase 4 of the investigations at the grenade pit, during Phase 5 vegetation removals, and during Phase 6 investigations at Building 709. During “mag-and-flag” geophysical surveys, anomalies were selected for investigation by the UXO technician supervising the activities.

2.2.2 INTRUSIVE INVESTIGATION

2.2.2.1 Reacquisition of Anomalies

Anomaly reacquisition was completed following data processing and anomaly selection. During reacquisition, a reacquisition team navigated to the GPS location of each selected anomaly and pin-flagged the anomaly location for subsequent intrusive investigation. After the anomalies were pin-flagged, a UXO technician verified each anomaly location with a Schonstedt magnetometer. Each selected anomaly was located within 1 foot of its corresponding GPS location. During “mag-and-flag” intrusive anomaly investigation, the anomaly was investigated immediately after the UXO technician identified its location.

2.2.2.2 Intrusive Investigations

Intrusive investigations were performed during the various phases on the dates specified in Section 2.1 and Table 1. Two UXO specialists were present during all intrusive investigations. The two UXO specialists hand-dug most of the anomalies flagged for investigation. In areas where there were numerous anomalies or the ground was too hard to manually dig anomalies, a backhoe was used.

Only 26 of the 65 acres geophysically surveyed were selected for intrusive investigation, which included the footprints of planned buildings and a 55-foot buffer around each building's planned footprint, a machine gun range, future road areas, a septic tank area, a soil mound area, an infirmary area, the East Pasture main entrance road, a tunnel/trench area, an area along Outer Road, and a Building 709 parking area. The areas in which intrusive investigations were completed are shown in **Figure 7**.

Anomalies were usually encountered near the ground surface (less than 6 inches bgs), but several were encountered at depths of 12 inches bgs or deeper. Anomalies were investigated to a maximum depth of 48 inches bgs. No anomalies were deeper than 48 inches bgs. UXO technicians confirmed complete removal of each anomaly by performing a 1-meter radius check with a Schonstedt magnetometer after excavation was complete. Any additional anomalies that were detected within the 1-meter radius area were also excavated. All selected anomalies were confirmed to be removed.

2.2.2.3 Phase 1 Intrusive Investigation

During Phase 1, a total of 192 anomalies were investigated at or within a 55-foot buffer of the planned locations of three future buildings: Building 706, 707 and 709. Phase 1 areas with anomalies that were intrusively investigated included:

- Building 706 Long-Range (3.7 acres): 122 anomalies (**Figure 8**)
- Building 707 Shoot House (0.8 acre): 26 anomalies, (**Figure 9**)
- Building 709 Test Facility (0.6 acre): 44 anomalies, (**Figure 10**)

2.2.2.4 Phase 2 Intrusive Investigation

A total of 305 anomalies were intrusively investigated during Phase 2 within a 2-acre future machine gun range construction area. Phase 2 areas with anomalies that were intrusively investigated included:

- Machine Gun Range (2.1 acres): 305 anomalies (**Figure 11**)

2.2.2.5 Phase 3 Intrusive Investigation

A total of 487 anomalies were investigated within a soil mound area, future road areas, and a septic tank area. Twenty-four anomalies were investigated in the 0.2-acre soil mound area, 402 anomalies were investigated in the 3.3 acres of future road areas, and 61 anomalies were investigated in the 0.4-acre septic tank area. Phase 3 areas with anomalies that were intrusively investigated included:

- Future Road Areas (3.3 acres): 402 anomalies (**Figure 12, Figure 13, Figure 14**)
- Soil Mound Area (0.2 acre): 24 anomalies (**Figure 14**)
- Septic Tank Area (0.4 acre): 61 anomalies (**Figure 15**)

2.2.2.6 Phase 4 Intrusive Investigation

A “mag-and-flag” ordnance survey and intrusive anomaly investigation was completed at the grenade pit area:

- Grenade Pit Area (0.04 acre): (**Figure 16**)

2.2.2.7 Phase 5 Intrusive Investigation

Intrusive investigations were conducted at an infirmary area, the East Pasture main entrance road, at a tunnel/trench area, and Outer Road. A total of 205 anomalies were investigated in the infirmary location, including the buffer zone. Along the East Pasture main entrance road, 624 anomalies were investigated. A total of 414 anomalies were investigated in the 5.7-acre tunnel/trench area. A total of 102 anomalies were investigated along Outer Road in a 1.5-acre area near Gate 7. Phase 5 areas with anomalies that were intrusively investigated included:

- Infirmary Area (0.9 acres) and Infirmary Area Buffer (0.6 acres): 205 anomalies (**Figure 17, Figure 18**)
- East Pasture Main Entrance Road (6 acres): 624 anomalies (**Figure 19**)
- Tunnel/Trench Area (5.7 acres): 414 anomalies (**Figure 20, Figure 21, Figure 22**)
- Outer Road (1.5 acres): 102 anomalies (**Figure 23**)

2.2.2.8 Phase 6 Intrusive Investigation

Intrusive investigations were conducted during Phase 6 at the Building 709 parking area and additional work was completed at the tunnel/trench area. A total of 285 anomalies were investigated in this 1.2-acre area. Phase 6 areas with anomalies that were intrusively investigated included:

- Building 709 Parking Area (0.6 acres): 123 anomalies (**Figure 24**)
- Tunnel/Trench Area (an additional 0.6 acres): 162 anomalies (**Figure 25**)

2.3 CONSTRUCTION SUPPORT

In addition to geophysical surveys and intrusive investigations, various field activities were performed as part of construction support. The types of construction support provided included surface sweeps, surface leveling, soil removals, vegetation removals, and stand-by services. Stand-by services were provided by UXO technicians during vegetation removal, railroad track removal, construction of a firebreak, and a controlled burn conducted by United

States Fish and Wildlife Service in the event UXO was encountered. Exact locations where construction support was conducted were not surveyed.

2.3.1 Surface Sweeps

Prior to CSSA construction crews (i.e., fence construction crews) beginning work in an area potentially containing UXO, a UXO Technician conducted a surface sweep. The surface sweep included visual surveys for surface ordnance and a Schonstedt magnetometer survey of the working area and a 1-meter radius to verify the site was anomaly-free prior to the construction crew commencing activities. Surface sweeps were performed during construction support provided for Phase 3 (fenceline construction) and at locations of anticipated fence postholes. Additional surface sweeps were performed for fence construction during Phase 4. Surface sweeps were also performed as part of the soil removals conducted during Phase 3 in the East Pasture and during Phase 4 soil removals at the grenade pit and surface grading for the firebreak (**Figure 16**).

2.3.2 Surface Leveling and Grading

CSSA requested construction support for leveling of soil mounds in the East Pasture (within the Phase 1 survey area) and grading of the surface to form a firebreak prior to a planned controlled burn (north of the Phase 3 survey area). This work was performed under the supervision of UXO technicians. Mounded areas were leveled using a motor grader to perform a removal of one foot of surface soils on each pass. UXO technicians supervised grader operator in removing a foot of soil at a time off the top of each mound on each pass. After a foot of soil was removed, the UXO technicians surveyed the fresh soil surface and performed a surface sweep with a Schonstedt magnetometer. During construction of the firebreak, approximately 9,000 feet of firebreak was constructed at a width of 15 feet. A surface sweep was performed of the area planned for the firebreak and “mag-and-flag” anomalies identified were intrusively investigated by the UXO technicians prior to the grading. Surface leveling was performed during construction support provided during Phase 3 over a 1.5-acre area to level the area for future construction and during Phase 4 behind the East Pasture range berm for range maintenance. Surface grading was performed at the area for the firebreak during Phase 4.

2.3.3 Soil Removals

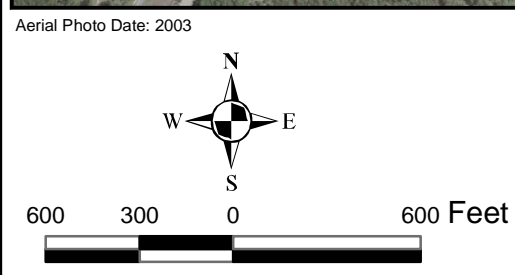
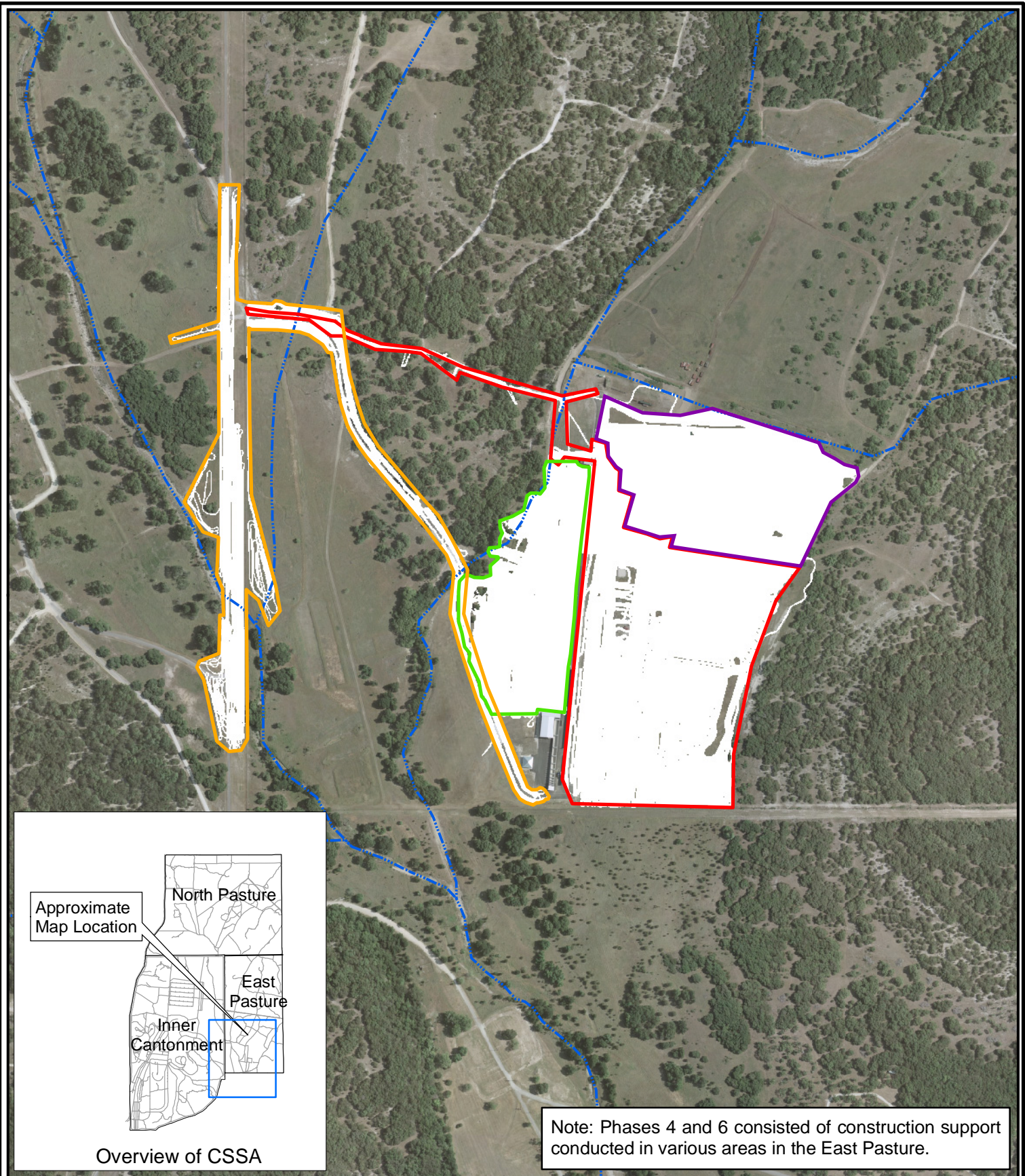
UXO technicians performed surface sweeps and supervised removal of one-foot layers at a time from either soil piles or surface soils. The soil was then inspected and placed on the ground next to the original location. A UXO technician visually surveyed the fresh soil pile surface and performed a surface sweep with a Schonstedt magnetometer to locate any anomalies that were indicative of possible metallic items. This process was repeated until each soil pile was completely examined. Each soil pile was left in place after the sifting process was complete, with the understanding the soil would be moved at a later date. Parsons constructed barricades and caution tape around the soil piles to prevent subcontractors from adding additional unexamined soil to the piles. Approximately 1,500 CY of soils were examined during Phase 3 (**Figure 12 through 15**). Additional oversight of soil removal was performed during Phase 4 at the Grenade Pit location (**Figure 16**).

2.3.4 Vegetation Removal

UXO technicians provided support during vegetation removal activities. The UXO technician performed a surface sweep prior to vegetation removal efforts and remained on stand by during vegetation removal activities in the event UXO was discovered. Vegetation was cleared approximately 30 feet off the edges of each side of the East Pasture main entrance road. Some of the trees and brushy vegetation were pushed back off the road, while the remaining trees and vegetation were placed in piles along. For locations to pile vegetation removed, UXO technicians performed surface sweeps prior to equipment operations. During Phase 4, construction support/vegetation removal was provided along the East Pasture main entrance road for tree removal prior to performing the UXO investigations. Vegetation removal support was also provided during Phase 5 at the tunnel/drainage area (**Figure 20 through 22**).

**TABLE 1
SUMMARY OF FIELD INVESTIGATIONS FOR EACH PHASE**

Phase	Construction Support	UXO Investigation				Reference Figure
		Dates Conducted	EM-61 Survey Acres	Anomaly Investigation Acres	Anomalies Investigated	
1	None	April 12-17, 2005	25	3.7 (Bldg 706) 0.8 (Bldg 707) 0.6 (Bldg 709)	122 26 44	8 9 10
2	None	January 4-8, 2006	11	2.1 (Planned Machine Gun Range)	305	11
3	March 4-6, 2006 (soil removal) March 7-10, 2006 (fenceline post clearance)	March 4-10, 2006	18	3.3 (Road Area) 0.2 (Soil Mound) 0.4 (Septic Tank)	402 24 61	12, 13, 14 14 15
4	July 5-6, 2006 (tree clearance) July 9, 2006 (fenceline clearance) Aug 3-4, 2006 (firebreak) Aug 14, 2006 (controlled burn) Aug 15, 2006 (tree pile relocation) Aug 16-22, 2006 (soil leveling; railroad track removal)	July 10, 2006	None; Mag-and-flag survey	0.04 (Grenade Pit)	Anomalies not recorded	16
5	Sept 1 and 6, 2006 (tree pile relocation) Nov 28, 2006 (videotaped training) Dec 1, 2006 (brush clearing)	August 23- November 30, 2006	11	0.9 (Infirmary Area) 6.0 (East Pasture Main Entrance Road) 5.7 (Tunnel/Trench Area) 1.5 (Outer Road)	205 624 414 102	17, 18 19 20, 21, 22 23
6	None	January 3-5, 2006	None; Mag-and-flag survey	0.6 (Bldg 709 Parking Area) 0.6 (Tunnel/Trench Area)	123 162	24 25

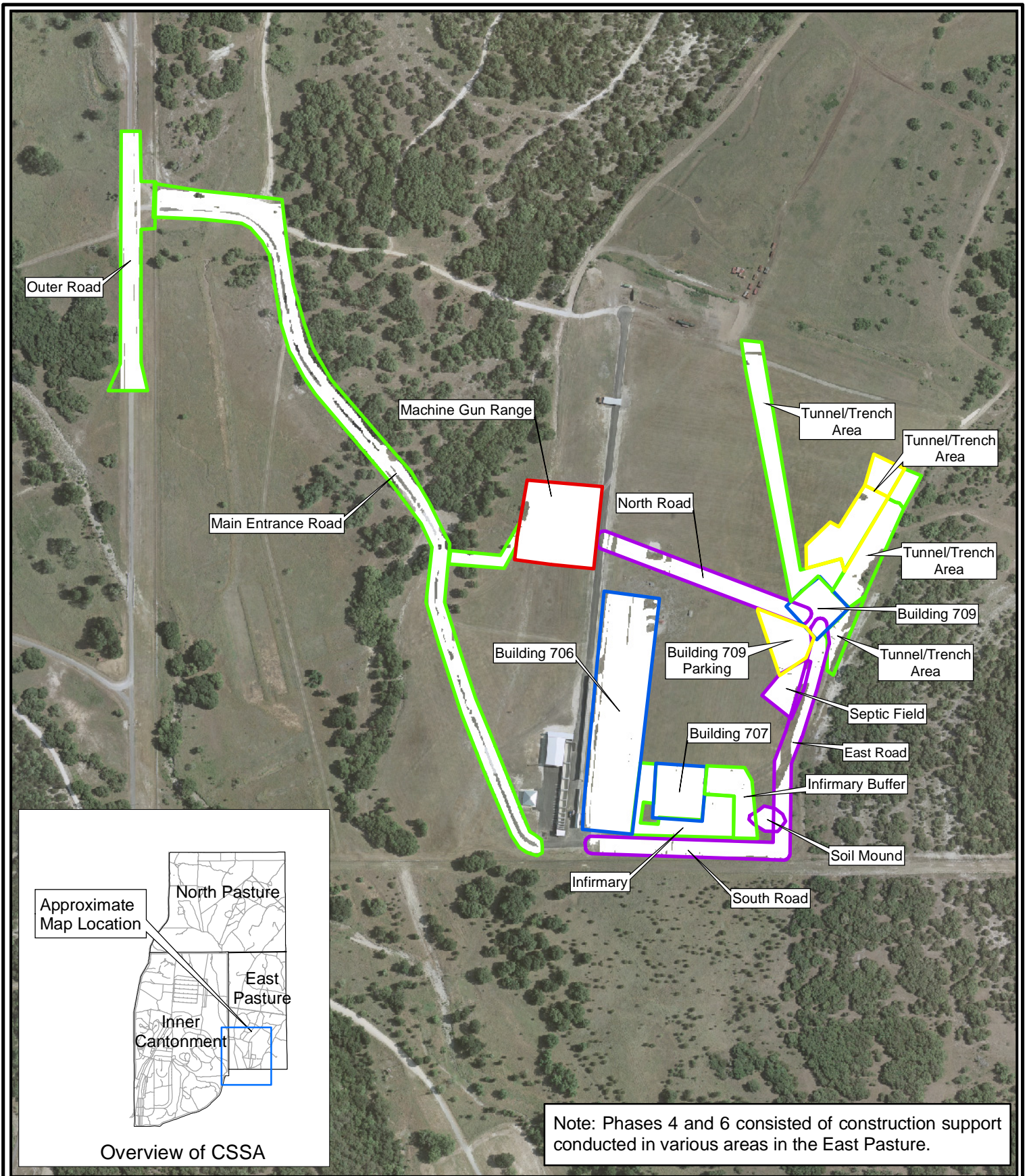


- Phase 1 Survey Area
- Phase 2 Survey Area
- Phase 3 Survey Area
- Phase 5 Survey Area

Figure 6

**Geophysical Survey Investigation Areas
Camp Stanley Storage Activity**

Parsons



Aerial Photo Date: 2003



400 200 0 400 Feet



- Phase 1
- Phase 2
- Phase 3
- Phase 5
- Phase 6

Figure 7

Intrusive Investigation Areas
Camp Stanley Storage Activity

Parsons

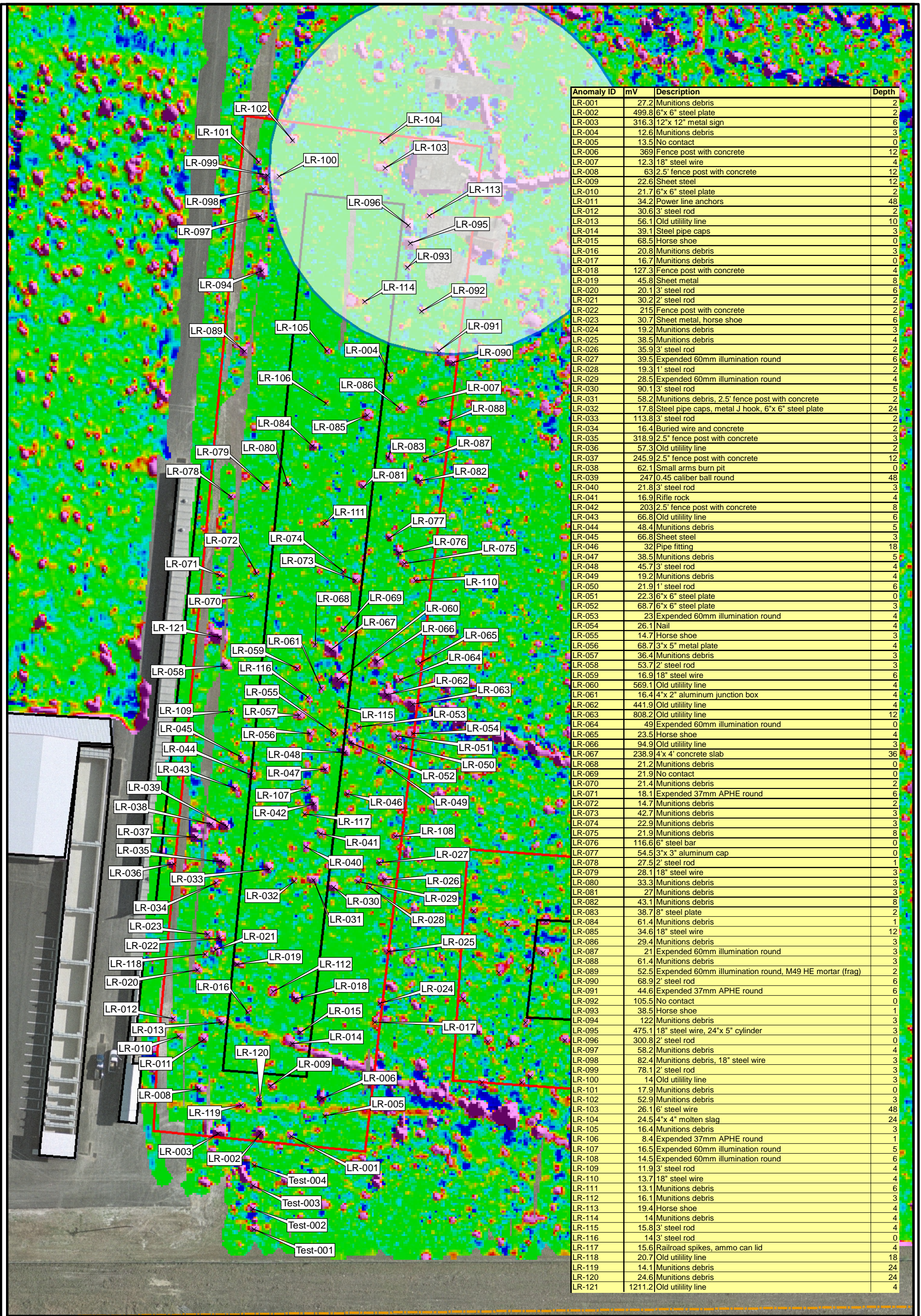


Figure 8
 Long Range (Bldg 706)
 Anomaly Location and Results Map
 Camp Stanley Storage Activity

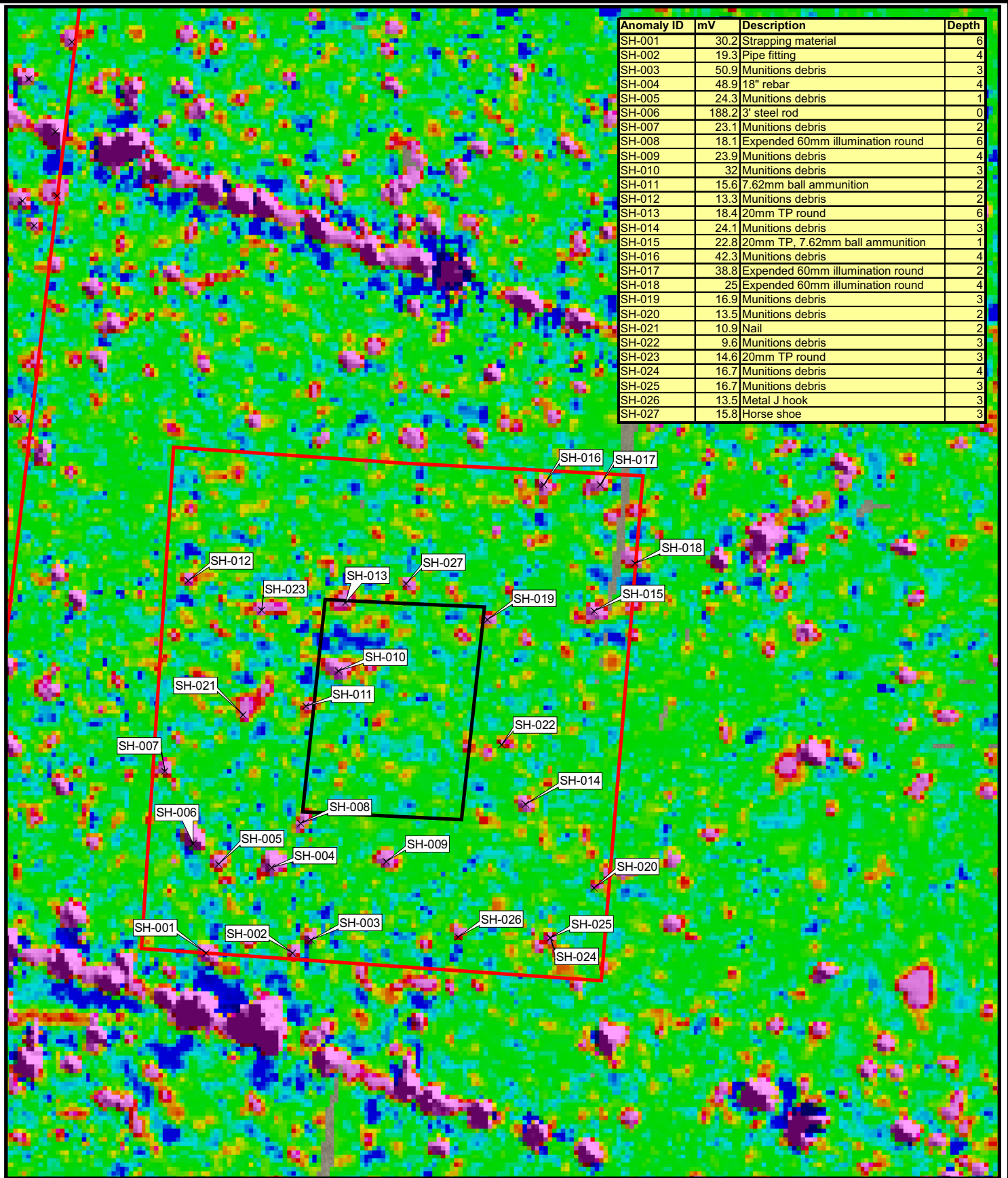
Parsons



- × Geophysical Anomalies
- Building Footprints
- 55 foot buffer around Buildings
- Suspected White Phosphorous Use Area

0 37.5 75 150 Feet

Anomaly ID	mV	Description	Depth
SH-001	30.2	Strapping material	6
SH-002	19.3	Pipe fitting	4
SH-003	50.9	Munitions debris	3
SH-004	48.9	18" rebar	4
SH-005	24.3	Munitions debris	1
SH-006	188.2	3' steel rod	0
SH-007	23.1	Munitions debris	2
SH-008	18.1	Expanded 60mm illumination round	6
SH-009	23.9	Munitions debris	4
SH-010	32	Munitions debris	3
SH-011	15.6	7.62mm ball ammunition	2
SH-012	13.3	Munitions debris	2
SH-013	18.4	20mm TP round	6
SH-014	24.1	Munitions debris	3
SH-015	22.8	20mm TP, 7.62mm ball ammunition	1
SH-016	42.3	Munitions debris	4
SH-017	38.8	Expanded 60mm illumination round	2
SH-018	25	Expanded 60mm illumination round	4
SH-019	16.9	Munitions debris	3
SH-020	13.5	Munitions debris	2
SH-021	10.9	Nail	2
SH-022	9.6	Munitions debris	3
SH-023	14.6	20mm TP round	3
SH-024	16.7	Munitions debris	4
SH-025	16.7	Munitions debris	3
SH-026	13.5	Metal J hook	3
SH-027	15.8	Horse shoe	3



- × Geophysical Anomalies
- ▭ Building 707 Footprint
- ▭ 55 foot buffer around Building 707

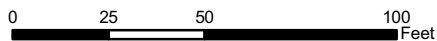
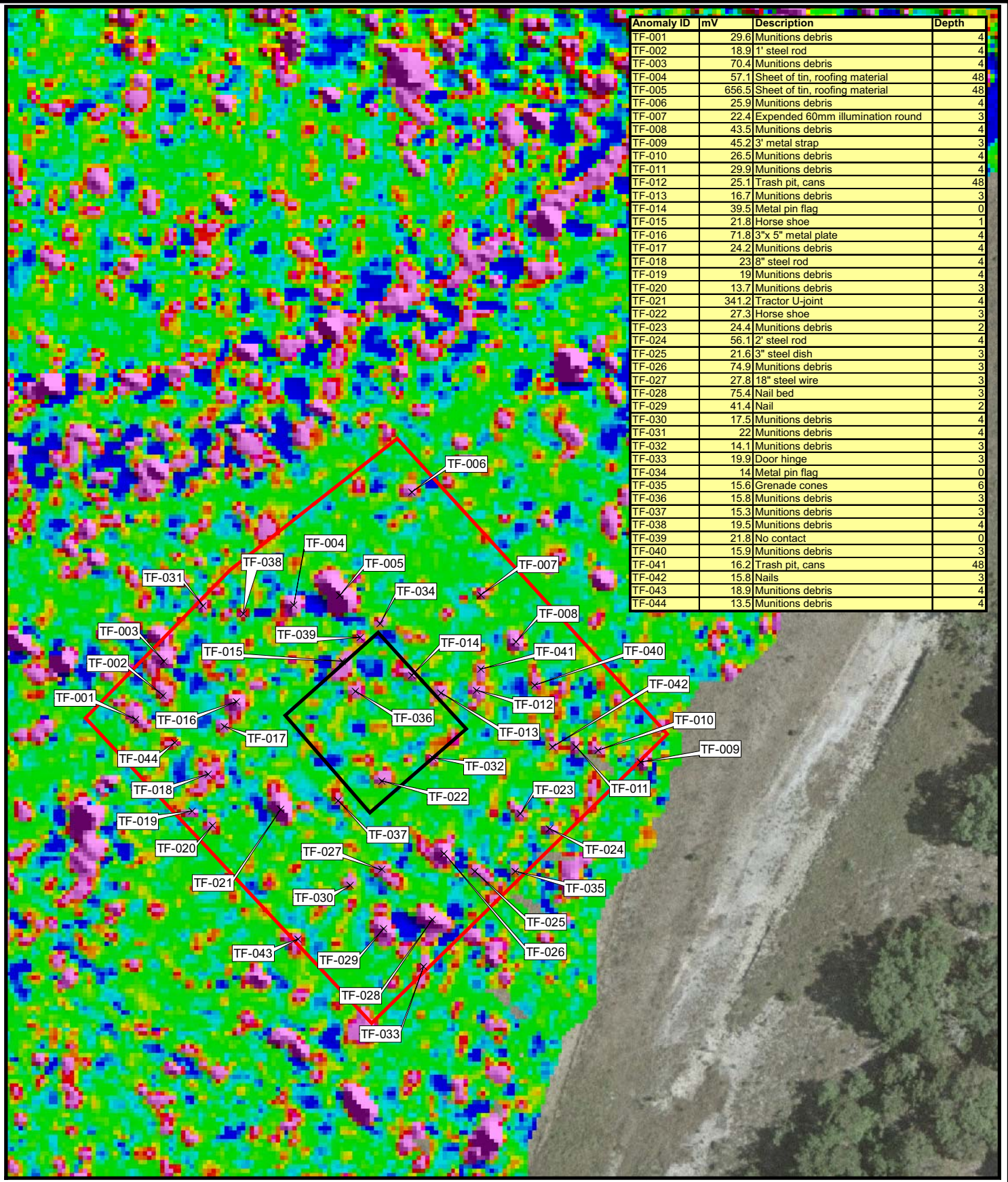


Figure 9

Phase 1: Shoot House (Bldg 707)
Anomaly Location and Results Map
Camp Stanley Storage Activity





- × Geophysical Anomalies
- Building 709 Footprint
- 55 foot buffer around Building 709

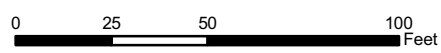
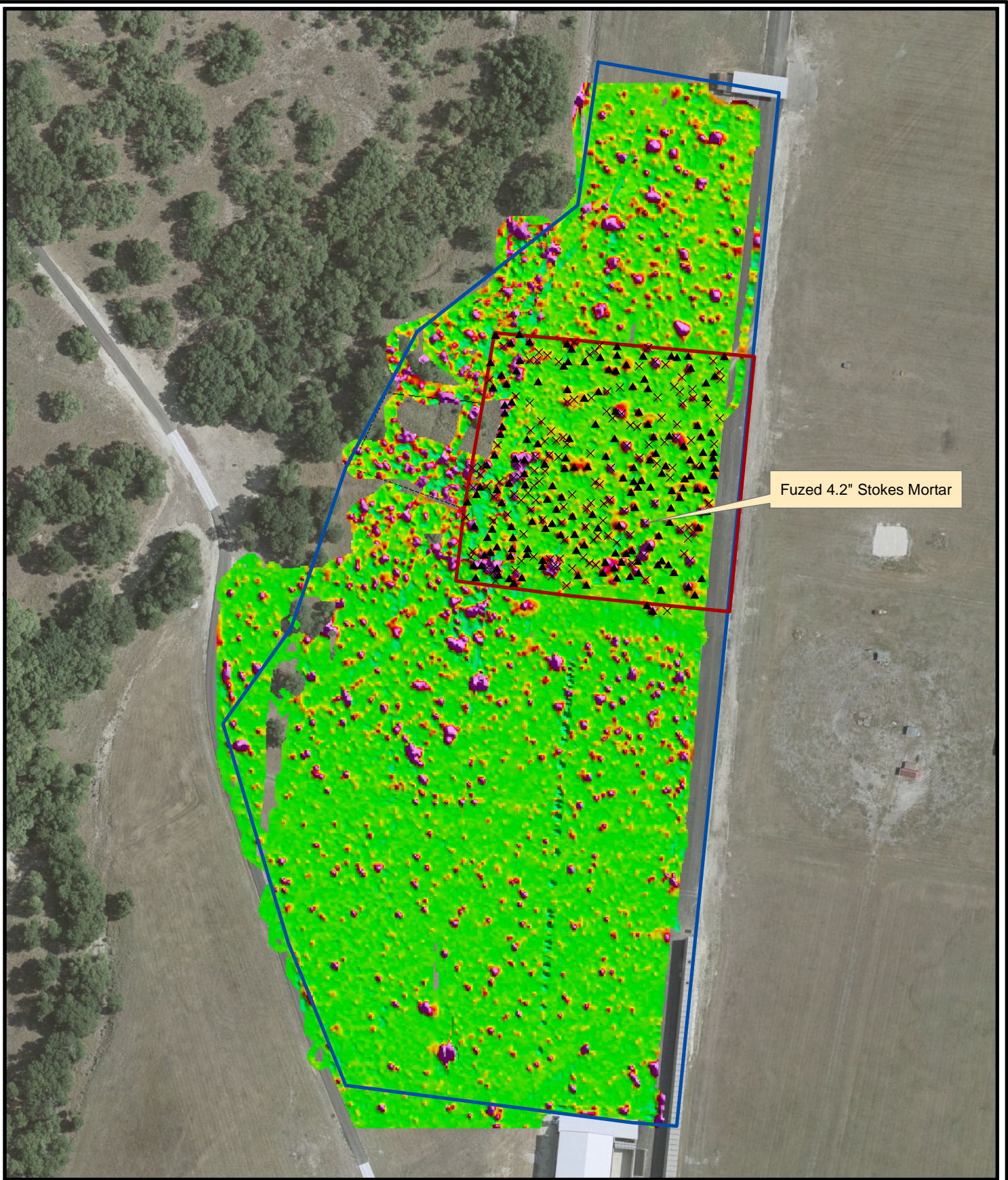


Figure 10

Phase 1: Test Facility (Bldg 709)
 Anomaly Location and Results Map
 Camp Stanley Storage Activity





Fuzed 4.2" Stokes Mortar



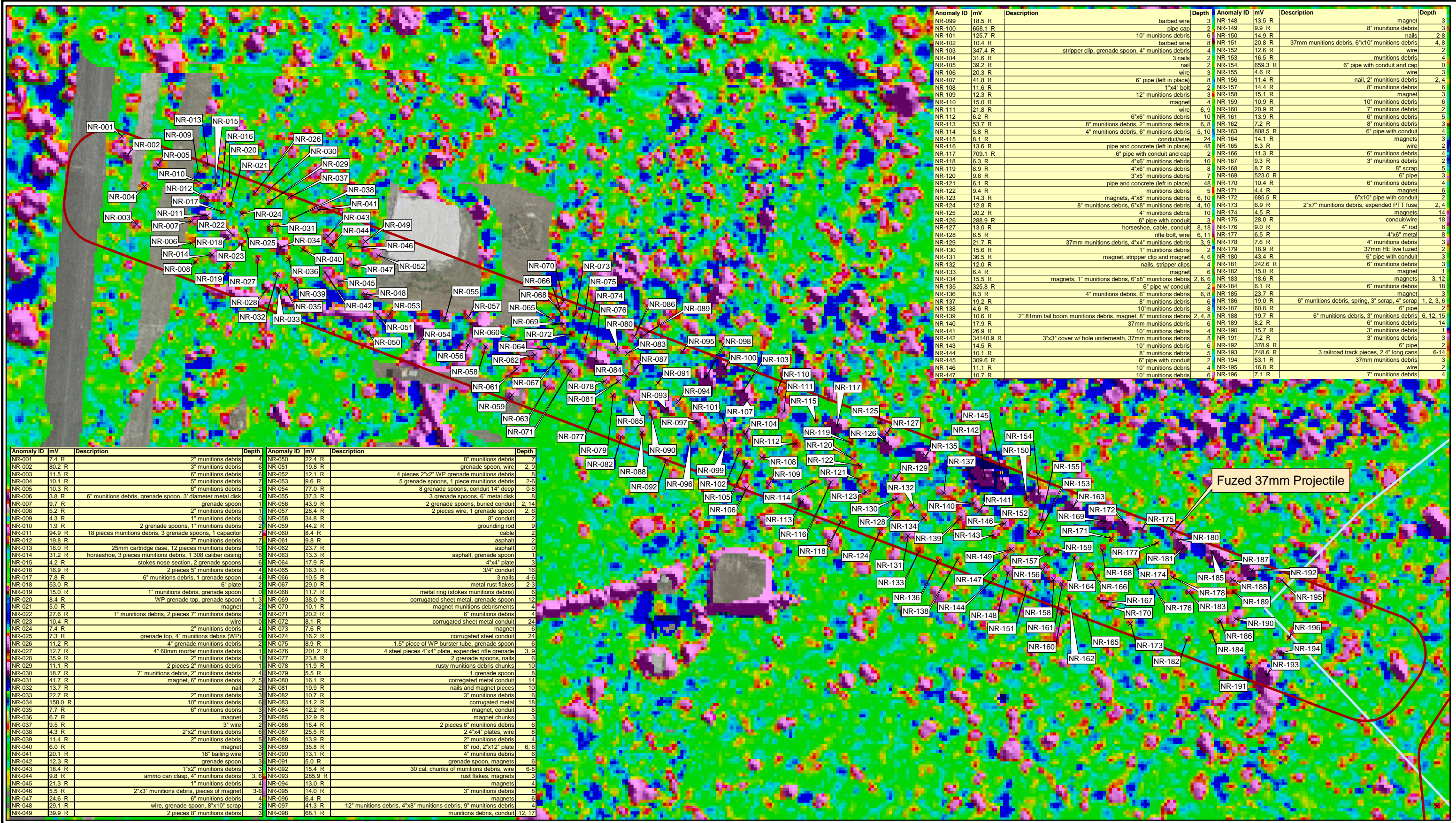
- × Geophysical Anomalies
- ▲ Munitions Debris
- Machine Gun Range Intrusive Investigation Area
- CSSA Requested Survey Area

0 75 150 300 Feet

Figure 11

Machine Gun Range
Anomaly Location Map
Camp Stanley Storage Activity

Parsons



Anomaly ID	mV	Description	Depth	Anomaly ID	mV	Description	Depth
NR-001	7.4 R	2" munitions debris	4	NR-050	22.4 R	8" munitions debris	7
NR-002	80.2 R	3" munitions debris	6	NR-051	19.8 R	grenade spoon, wire	2, 9
NR-003	11.5 R	6" munitions debris	6	NR-052	12.1 R	4 pieces 2"x2" WP grenade munitions debris	3
NR-004	10.1 R	5" munitions debris	7	NR-053	9.6 R	5 grenade spoons, 1 piece munitions debris	2, 6
NR-005	10.3 R	6" munitions debris	2	NR-054	77.0 R	8 grenade spoons, conduit 14" deep	0-6
NR-006	3.8 R	6" munitions debris, grenade spoon, 3" diameter metal disk	4	NR-055	37.3 R	3 grenade spoons, 6" metal disk	8
NR-007	9.7 R	grenade spoon	1	NR-056	43.9 R	2 grenade spoons, buried conduit	2, 14
NR-008	5.2 R	2" munitions debris	1	NR-057	28.4 R	2 pieces wire, 1 grenade spoon	2, 6
NR-009	4.3 R	1" munitions debris	0	NR-058	34.8 R	8" conduit	2
NR-010	1.9 R	2 grenade spoons, 1" munitions debris	2	NR-059	44.2 R	grounding rod	9
NR-011	94.9 R	18 pieces munitions debris, 3 grenade spoons, 1 capacitor	7	NR-060	8.4 R	cable	2
NR-012	19.8 R	7" munitions debris	7	NR-061	9.8 R	asphalt	2
NR-013	18.0 R	25mm cartridge case, 12 pieces munitions debris	10	NR-062	23.7 R	asphalt	0
NR-014	31.2 R	horseshoe, 3 pieces munitions debris, 1 308 caliber casing	8	NR-063	13.3 R	asphalt, grenade spoon	1
NR-015	4.2 R	stokes nose section, 2 grenade spoons	6	NR-064	17.9 R	4"x4" plate	3
NR-016	16.9 R	2 pieces 5" munitions debris	4	NR-065	16.3 R	3/4" conduit	16
NR-017	7.8 R	6" munitions debris, 1 grenade spoon	4	NR-066	10.5 R	3 nails	4-6
NR-018	53.0 R	6" plate	2	NR-067	29.0 R	metal rust flakes	2-3
NR-019	15.0 R	1" munitions debris, grenade spoon	0	NR-068	11.7 R	metal ring (stokes munitions debris)	8
NR-020	8.4 R	WP grenade top, grenade spoon	1, 3	NR-069	38.0 R	corrugated sheet metal, grenade spoon	12
NR-021	6.0 R	magnet	2	NR-070	10.1 R	magnet munitions debris/merits	4
NR-022	27.6 R	1" munitions debris, 2 pieces 7" munitions debris	4	NR-071	20.2 R	6" munitions debris	4
NR-023	10.4 R	wire	0	NR-072	8.1 R	corrugated sheet metal conduit	24
NR-024	7.4 R	2" munitions debris	4	NR-073	7.6 R	magnet	6
NR-025	7.3 R	grenade top, 4" munitions debris (WP)	0	NR-074	16.2 R	corrugated steel conduit	24
NR-026	11.2 R	4" grenade munitions debris	2	NR-075	8.9 R	1.5" piece of WP burster tube, grenade spoon	6
NR-027	12.7 R	4" 60mm mortar munitions debris	1	NR-076	201.2 R	4 steel pieces 4"x4" plate, expended rifle grenade	3, 9
NR-028	35.9 R	2" munitions debris	1	NR-077	23.8 R	2 grenade spoons, nails	6
NR-029	11.1 R	2 pieces 2" munitions debris	1	NR-078	11.9 R	rusty munitions debris chunks	10
NR-030	18.7 R	7" munitions debris, 2" munitions debris	4	NR-079	5.5 R	1 grenade spoon	8
NR-031	41.7 R	magnet, 6" munitions debris	2, 5	NR-080	16.1 R	corrugated metal conduit	14
NR-032	13.7 R	nail	2	NR-081	19.9 R	nails and magnet pieces	10
NR-033	22.7 R	2" munitions debris	3	NR-082	10.7 R	3" munitions debris	6
NR-034	158.0 R	10" munitions debris	6	NR-083	11.2 R	corrugated metal	18
NR-035	7.7 R	6" munitions debris	3	NR-084	12.2 R	magnet, conduit	8
NR-036	6.7 R	magnet	2	NR-085	32.9 R	magnet chunks	3
NR-037	9.5 R	3" wire	6	NR-086	15.4 R	2 pieces 6" munitions debris	6
NR-038	4.3 R	2"x2" munitions debris	6	NR-087	25.5 R	2 4"x4" plates, wire	8
NR-039	11.4 R	2" munitions debris	5	NR-088	13.9 R	2" munitions debris	4
NR-040	6.0 R	magnet	3	NR-089	35.8 R	8" rod, 2"x12" plate	6, 8
NR-041	20.1 R	18" bailing wire	0	NR-090	13.1 R	4" munitions debris	6
NR-042	12.3 R	grenade spoon	3	NR-091	5.0 R	grenade spoon, magnets	6
NR-043	18.4 R	1"x2" munitions debris	3	NR-092	15.4 R	30 cal. chunks of munitions debris, wire	6-8
NR-044	9.8 R	ammo can clasp, 4" munitions debris	3, 6	NR-093	285.9 R	rust flakes, magnets	3
NR-045	21.3 R	1" munitions debris	4	NR-094	13.0 R	magnets	4
NR-046	5.5 R	2"x3" munitions debris, pieces of magnet	3-6	NR-095	14.0 R	3" munitions debris	8
NR-047	24.6 R	6" munitions debris	4	NR-096	6.4 R	magnets	6
NR-048	29.1 R	wire, grenade spoon, 8"x10" scrap	2	NR-097	41.3 R	12" munitions debris, 4"x8" munitions debris, 9" munitions debris	4
NR-049	39.9 R	2 pieces 8" munitions debris	3	NR-098	68.1 R	munitions debris, conduit	12, 17

Anomaly ID	mV	Description	Depth	Anomaly ID	mV	Description	Depth
NR-099	18.5 R	barbed wire	3	NR-148	13.5 R	magnet	3
NR-100	658.1 R	pipe cap	2	NR-149	9.9 R	8" munitions debris	3
NR-101	125.7 R	10" munitions debris	6	NR-150	14.9 R	nails	2-8
NR-102	10.4 R	barbed wire	8	NR-151	20.8 R	37mm munitions debris, 6"x10" munitions debris	4, 8
NR-103	347.4 R	stripper clip, grenade spoon, 4" munitions debris	4	NR-152	12.6 R	wire	2
NR-104	31.6 R	3 nails	2	NR-153	16.5 R	munitions debris	4
NR-105	39.2 R	nail	2	NR-154	659.3 R	6" pipe with conduit and cap	0
NR-106	20.3 R	wire	3	NR-155	4.6 R	wire	3
NR-107	41.8 R	6" pipe (left in place)	8	NR-156	11.4 R	nail, 2" munitions debris	2, 4
NR-108	11.6 R	1"x4" bolt	2	NR-157	14.4 R	8" munitions debris	6
NR-109	12.3 R	12" munitions debris	3	NR-158	15.1 R	magnet	3
NR-110	15.0 R	magnet	4	NR-159	10.9 R	10" munitions debris	6
NR-111	21.8 R	wire	6, 9	NR-160	20.9 R	7" munitions debris	2
NR-112	6.2 R	6"x6" munitions debris	10	NR-161	13.9 R	6" munitions debris	5
NR-113	53.7 R	8" munitions debris, 2" munitions debris	6, 8	NR-162	7.2 R	8" munitions debris	3
NR-114	5.8 R	4" munitions debris, 6" munitions debris	5, 10	NR-163	808.5 R	6" pipe with conduit	4
NR-115	8.1 R	conduit/wire	24	NR-164	14.1 R	magnets	3
NR-116	13.6 R	pipe and concrete (left in place)	48	NR-165	8.3 R	wire	2
NR-117	709.1 R	6" pipe with conduit and cap	2	NR-166	11.3 R	6" munitions debris	4
NR-118	6.3 R	4"x6" munitions debris	10	NR-167	9.3 R	3" munitions debris	2
NR-119	8.9 R	4"x6" munitions debris	8	NR-168	8.7 R	8" scrap	5
NR-120	9.8 R	3"x5" munitions debris	7	NR-169	523.0 R	6" pipe	3
NR-121	6.1 R	pipe and concrete (left in place)	48	NR-170	10.4 R	6" munitions debris	4
NR-122	9.4 R	munitions debris	5	NR-171	4.4 R	magnet	6
NR-123	14.3 R	magnets, 4"x8" munitions debris	6, 10	NR-172	685.5 R	6"x10" pipe with conduit	2
NR-124	12.8 R	8" munitions debris, 6"x8" munitions debris	4, 10	NR-173	6.9 R	2"x7" munitions debris, expended PTT fuse	2, 4
NR-125	20.2 R	4" munitions debris	10	NR-174	4.5 R	magnets	14
NR-126	288.9 R	6" pipe with conduit	3	NR-175	28.0 R	conduit/wire	18
NR-127	13.0 R	horseshoe, cable, conduit	8, 18	NR-176	9.0 R	4" rod	6
NR-128	8.5 R	rifle bolt, wire	6, 11	NR-177	6.5 R	4"x6" metal	8
NR-129	21.7 R	37mm munitions debris, 4"x4" munitions debris	3, 9	NR-178	7.6 R	4" munitions debris	3
NR-130	15.6 R	1" munitions debris	2	NR-179	18.9 R	37mm HE live fuzed	2
NR-131	36.5 R	magnet, stripper clip and magnet	4, 6	NR-180	43.4 R	6" pipe with conduit	3
NR-132	12.0 R	nails, stripper clips	4	NR-181	242.6 R	6" munitions debris	3
NR-133	6.4 R	magnet	6	NR-182	15.0 R	magnet	1
NR-134	15.5 R	magnets, 1" munitions debris, 6"x8" munitions debris	2, 6, 6	NR-183	18.6 R	magnets	3, 12
NR-135	325.8 R	6" pipe w/ conduit	2	NR-184	6.1 R	6" munitions debris	18
NR-136	8.3 R	4" munitions debris, 6" munitions debris	6, 8	NR-185	23.7 R	magnet	3
NR-137	19.2 R	8" munitions debris	6	NR-186	18.0 R	6" munitions debris, spring, 3" scrap, 4" scrap	1, 2, 3, 6
NR-138	4.6 R	10" munitions debris	8	NR-187	60.8 R	6" pipe	2
NR-139	10.6 R	2" 81mm tail boom munitions debris, magnet, 8" munitions debris	2, 4, 8	NR-188	19.7 R	6" munitions debris, 3" munitions debris	6, 12, 15
NR-140	17.9 R	37mm munitions debris	6	NR-189	8.2 R	6" munitions debris	14
NR-141	26.9 R	10" munitions debris	4	NR-190	15.7 R	3" munitions debris	1
NR-142	34140.9 R	3"x3" cover w/ hole underneath, 37mm munitions debris	8	NR-191	7.2 R	3" munitions debris	3
NR-143	14.5 R	10" munitions debris	6	NR-192	378.9 R	6" pipe	2
NR-144	10.1 R	8" munitions debris	5	NR-193	748.6 R	3 railroad track pieces, 2 4" long cans	6-14
NR-145	309.6 R	6" pipe with conduit	2	NR-194	53.1 R	37mm munitions debris	3
NR-146	11.1 R	10" munitions debris	4	NR-195	16.8 R	wire	2
NR-147	10.7 R	10" munitions debris	6	NR-196	7.1 R	7" munitions debris	4

- × Geophysical Anomalies
- ▭ Road Areas
- ▭ Bldg 709 Intrusive Investigation Area

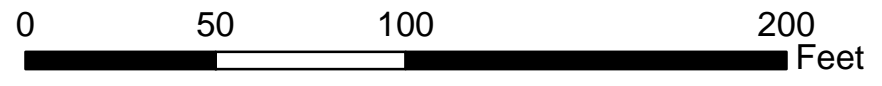
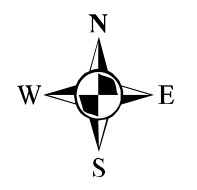


Figure 12
North Road
Anomaly Location Map
Camp Stanley Storage Activity
Parsons

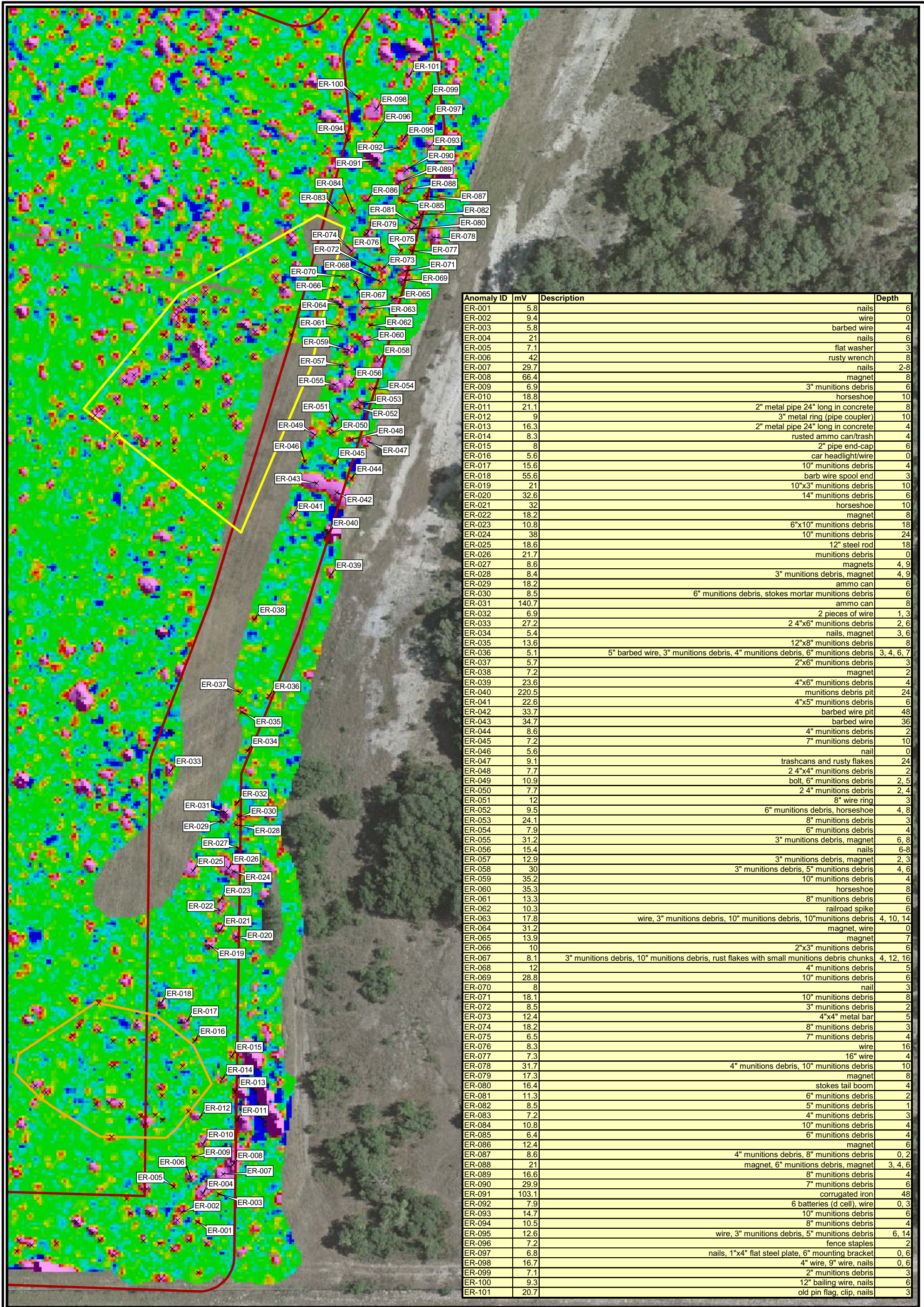
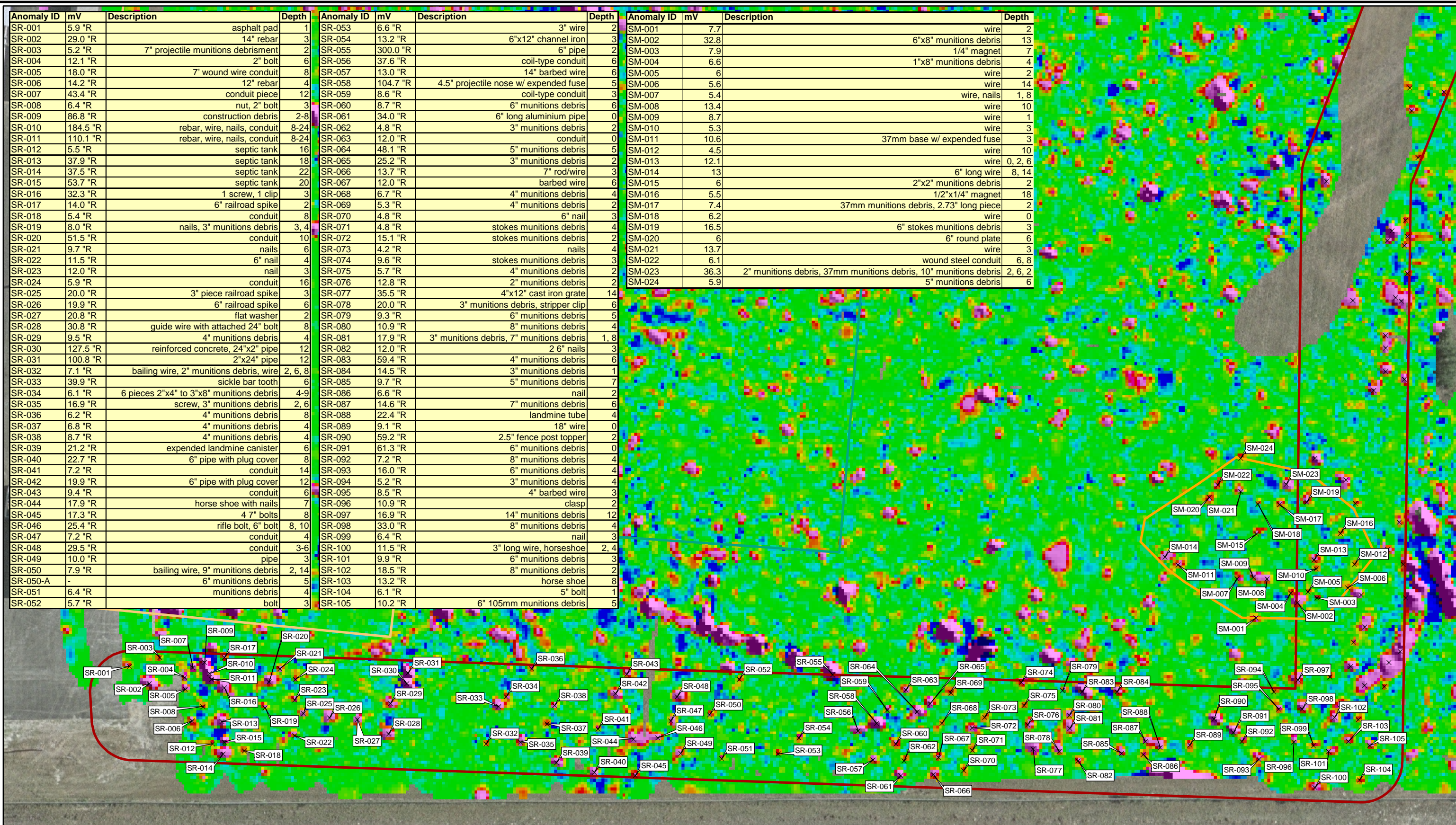


Figure 13
Phase 3: East Road
Anomaly Location and Results Map
Camp Stanley Storage Activity



- × Geophysical Anomalies
- Septic Tank Area
- Soil Mound Area
- Road Areas

0 37.5 75 150 Feet

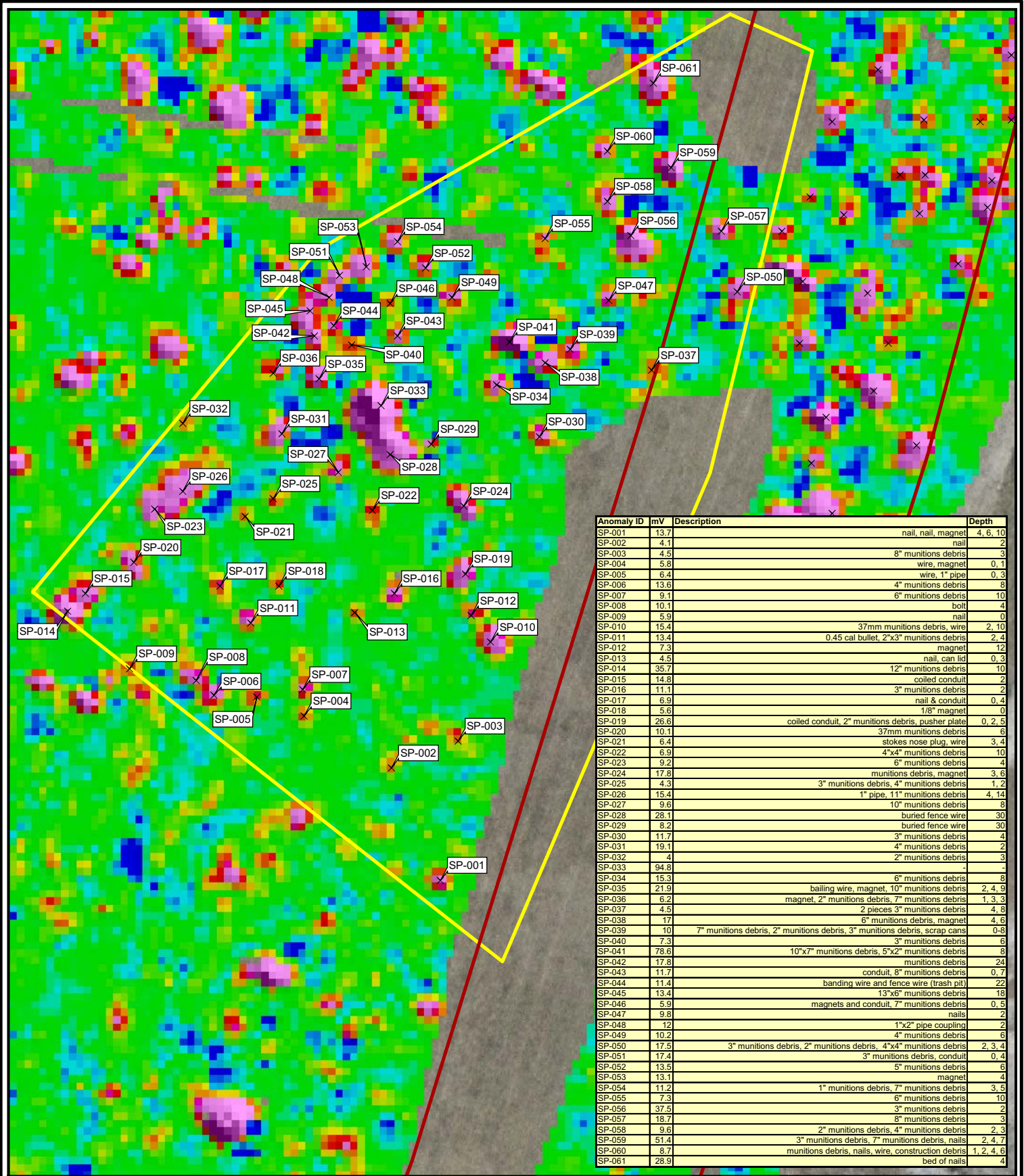


Anomaly ID	mV	Description	Depth
SR-001	5.9 "R	asphalt pad	1
SR-002	29.0 "R	14" rebar	3
SR-003	5.2 "R	7" projectile munitions debris	2
SR-004	12.1 "R	2" bolt	6
SR-005	18.0 "R	7' wound wire conduit	8
SR-006	14.2 "R	12" rebar	4
SR-007	43.4 "R	conduit piece	12
SR-008	6.4 "R	nut, 2" bolt	3
SR-009	86.8 "R	construction debris	2-8
SR-010	184.5 "R	rebar, wire, nails, conduit	8-24
SR-011	110.1 "R	rebar, wire, nails, conduit	8-24
SR-012	5.5 "R	septic tank	16
SR-013	37.9 "R	septic tank	18
SR-014	37.5 "R	septic tank	22
SR-015	53.7 "R	septic tank	20
SR-016	32.3 "R	1 screw, 1 clip	3
SR-017	14.0 "R	6" railroad spike	2
SR-018	5.4 "R	conduit	8
SR-019	8.0 "R	nails, 3" munitions debris	3, 4
SR-020	51.5 "R	conduit	10
SR-021	9.7 "R	nails	6
SR-022	11.5 "R	6" nail	4
SR-023	12.0 "R	nail	3
SR-024	5.9 "R	conduit	16
SR-025	20.0 "R	3" piece railroad spike	3
SR-026	19.9 "R	6" railroad spike	6
SR-027	20.8 "R	flat washer	2
SR-028	30.8 "R	guide wire with attached 24" bolt	8
SR-029	9.5 "R	4" munitions debris	4
SR-030	127.5 "R	reinforced concrete, 24"x2" pipe	12
SR-031	100.8 "R	2"x24" pipe	12
SR-032	7.1 "R	bailing wire, 2" munitions debris, wire	2, 6, 8
SR-033	39.9 "R	sickle bar tooth	6
SR-034	6.1 "R	6 pieces 2"x4" to 3"x8" munitions debris	4-9
SR-035	16.9 "R	screw, 3" munitions debris	2, 6
SR-036	6.2 "R	4" munitions debris	8
SR-037	6.8 "R	4" munitions debris	4
SR-038	8.7 "R	4" munitions debris	4
SR-039	21.2 "R	expended landmine canister	6
SR-040	22.7 "R	6" pipe with plug cover	8
SR-041	7.2 "R	conduit	14
SR-042	19.9 "R	6" pipe with plug cover	12
SR-043	9.4 "R	conduit	6
SR-044	17.9 "R	horse shoe with nails	7
SR-045	17.3 "R	4 7" bolts	8
SR-046	25.4 "R	rifle bolt, 6" bolt	8, 10
SR-047	7.2 "R	conduit	4
SR-048	29.5 "R	conduit	3-6
SR-049	10.0 "R	pipe	3
SR-050	7.9 "R	bailing wire, 9" munitions debris	2, 14
SR-050-A	-	6" munitions debris	5
SR-051	6.4 "R	munitions debris	4
SR-052	5.7 "R	bolt	3
SR-053	6.6 "R	3" wire	2
SR-054	13.2 "R	6"x12" channel iron	3
SR-055	300.0 "R	6" pipe	2
SR-056	37.6 "R	coil-type conduit	6
SR-057	13.0 "R	14" barbed wire	6
SR-058	104.7 "R	4.5" projectile nose w/ expended fuse	5
SR-059	8.6 "R	coil-type conduit	3
SR-060	8.7 "R	6" munitions debris	6
SR-061	34.0 "R	6" long aluminium pipe	0
SR-062	4.8 "R	3" munitions debris	2
SR-063	12.0 "R	conduit	0
SR-064	48.1 "R	5" munitions debris	5
SR-065	25.2 "R	3" munitions debris	2
SR-066	13.7 "R	7" rod/wire	3
SR-067	12.0 "R	barbed wire	6
SR-068	6.7 "R	4" munitions debris	4
SR-069	5.3 "R	4" munitions debris	2
SR-070	4.8 "R	6" nail	3
SR-071	4.8 "R	stokes munitions debris	4
SR-072	15.1 "R	stokes munitions debris	2
SR-073	4.2 "R	nails	4
SR-074	9.6 "R	stokes munitions debris	3
SR-075	5.7 "R	4" munitions debris	2
SR-076	12.8 "R	2" munitions debris	2
SR-077	35.5 "R	4"x12" cast iron grate	14
SR-078	20.0 "R	3" munitions debris, stripper clip	6
SR-079	9.3 "R	6" munitions debris	5
SR-080	10.9 "R	8" munitions debris	4
SR-081	17.9 "R	3" munitions debris, 7" munitions debris	1, 8
SR-082	12.0 "R	2 6" nails	3
SR-083	59.4 "R	4" munitions debris	6
SR-084	14.5 "R	3" munitions debris	1
SR-085	9.7 "R	5" munitions debris	7
SR-086	6.6 "R	nail	2
SR-087	14.6 "R	7" munitions debris	6
SR-088	22.4 "R	landmine tube	4
SR-089	9.1 "R	18" wire	0
SR-090	59.2 "R	2.5" fence post topper	2
SR-091	61.3 "R	6" munitions debris	0
SR-092	7.2 "R	8" munitions debris	4
SR-093	16.0 "R	6" munitions debris	4
SR-094	5.2 "R	3" munitions debris	4
SR-095	8.5 "R	4" barbed wire	3
SR-096	10.9 "R	clasp	2
SR-097	16.9 "R	14" munitions debris	12
SR-098	33.0 "R	8" munitions debris	4
SR-099	6.4 "R	nail	3
SR-100	11.5 "R	3" long wire, horseshoe	2, 4
SR-101	9.9 "R	6" munitions debris	3
SR-102	18.5 "R	8" munitions debris	2
SR-103	13.2 "R	horse shoe	8
SR-104	6.1 "R	5" bolt	1
SR-105	10.2 "R	6" 105mm munitions debris	5

Anomaly ID	mV	Description	Depth
SM-001	7.7	wire	2
SM-002	32.8	6"x8" munitions debris	13
SM-003	7.9	1/4" magnet	7
SM-004	6.6	1"x8" munitions debris	4
SM-005	6	wire	2
SM-006	5.6	wire	14
SM-007	5.4	wire, nails	1, 8
SM-008	13.4	wire	10
SM-009	8.7	wire	1
SM-010	5.3	wire	3
SM-011	10.6	37mm base w/ expended fuse	3
SM-012	4.5	wire	10
SM-013	12.1	wire	0, 2, 6
SM-014	13	6" long wire	8, 14
SM-015	6	2"x2" munitions debris	2
SM-016	5.5	1/2"x1/4" magnet	18
SM-017	7.4	37mm munitions debris, 2.73" long piece	2
SM-018	6.2	wire	0
SM-019	16.5	6" stokes munitions debris	3
SM-020	6	6" round plate	6
SM-021	13.7	wire	3
SM-022	6.1	wound steel conduit	6, 8
SM-023	36.3	2" munitions debris, 37mm munitions debris, 10" munitions debris	2, 6, 2
SM-024	5.9	5" munitions debris	6

- × Geophysical Anomalies
- ▭ Road Areas
- ▭ Soil Mound Area
- ▭ Bldg 707 Intrusive Investigation Area
- ▭ Bldg 706 Intrusive Investigation Area

Figure 14
Phase 3: South Road and Soil Mound
Anomaly Location and Results Map
Camp Stanley Storage Activity
Parsons



25 12.5 0 25 Feet



× Geophysical Anomalies

▭ Road Areas

▭ Septic Tank Area

Figure 15

Phase 3: Septic Tank
Anomaly Location and Results Map
Camp Stanley Storage Activity





0 250 500 1,000 Feet



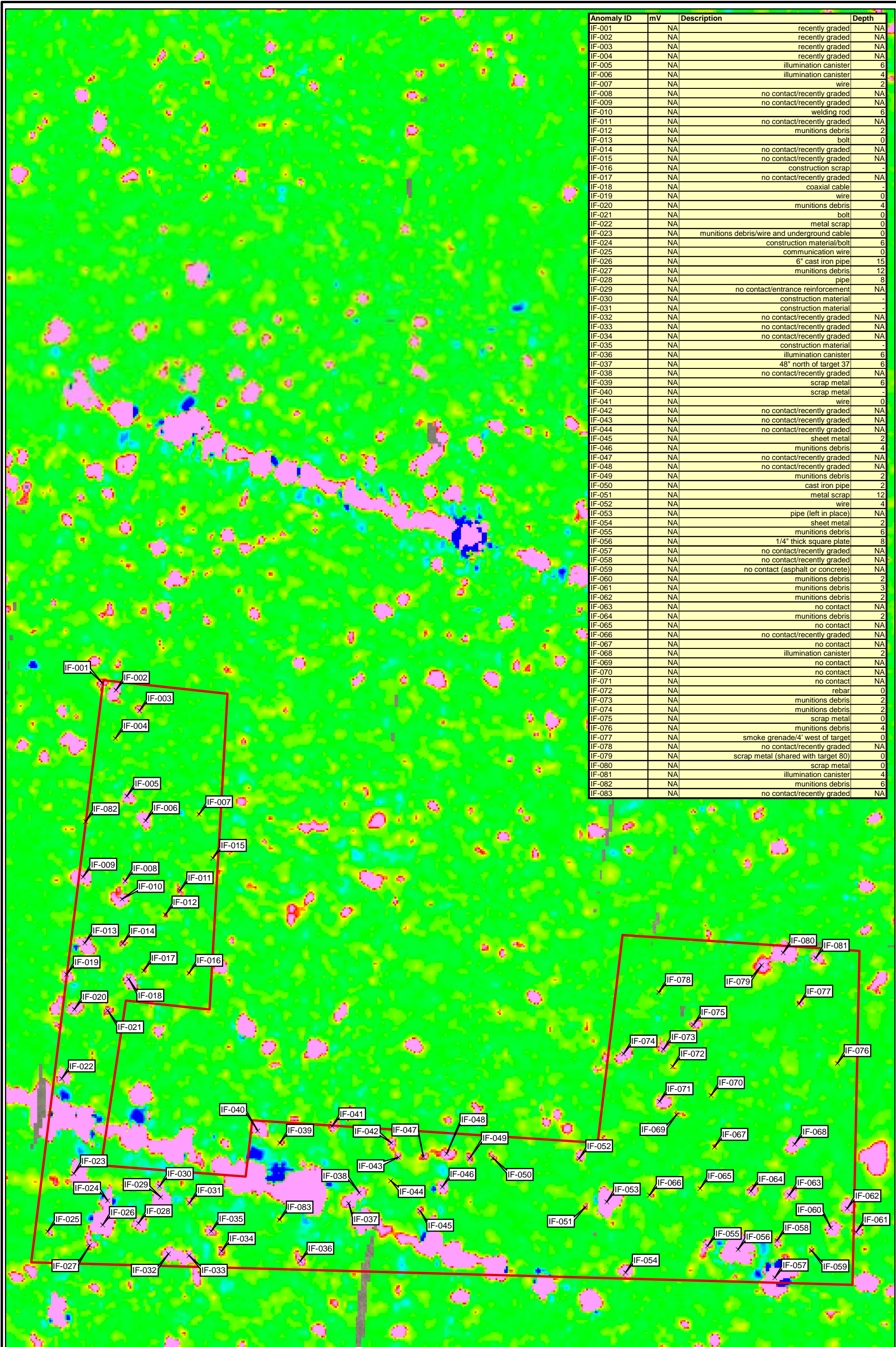
-  Fire Berm
-  Grenade Pit Area

Figure 16

Phase 4: Investigation Areas Map
Camp Stanley Storage Activity

Parsons



Anomaly ID	mV	Description	Depth
IF-001	NA	recently graded	NA
IF-002	NA	recently graded	NA
IF-003	NA	recently graded	NA
IF-004	NA	recently graded	NA
IF-005	NA	illumination canister	6
IF-006	NA	illumination canister	4
IF-007	NA	wire	2
IF-008	NA	no contact/recently graded	NA
IF-009	NA	no contact/recently graded	NA
IF-010	NA	welding rod	6
IF-011	NA	no contact/recently graded	NA
IF-012	NA	munitions debris	2
IF-013	NA	bolt	0
IF-014	NA	no contact/recently graded	NA
IF-015	NA	no contact/recently graded	NA
IF-016	NA	construction scrap	-
IF-017	NA	no contact/recently graded	NA
IF-018	NA	coaxial cable	-
IF-019	NA	wire	0
IF-020	NA	munitions debris	4
IF-021	NA	bolt	0
IF-022	NA	metal scrap	0
IF-023	NA	munitions debris/wire and underground cable	0
IF-024	NA	construction material/bolt	6
IF-025	NA	communication wire	0
IF-026	NA	6" cast iron pipe	15
IF-027	NA	munitions debris	12
IF-028	NA	pipe	8
IF-029	NA	no contact/entrance reinforcement	NA
IF-030	NA	construction material	-
IF-031	NA	construction material	-
IF-032	NA	no contact/recently graded	NA
IF-033	NA	no contact/recently graded	NA
IF-034	NA	no contact/recently graded	NA
IF-035	NA	construction material	-
IF-036	NA	illumination canister	6
IF-037	NA	48" north of target 37	6
IF-038	NA	no contact/recently graded	NA
IF-039	NA	scrap metal	6
IF-040	NA	scrap metal	-
IF-041	NA	wire	0
IF-042	NA	no contact/recently graded	NA
IF-043	NA	no contact/recently graded	NA
IF-044	NA	no contact/recently graded	NA
IF-045	NA	sheet metal	2
IF-046	NA	munitions debris	4
IF-047	NA	no contact/recently graded	NA
IF-048	NA	no contact/recently graded	NA
IF-049	NA	munitions debris	2
IF-050	NA	cast iron pipe	2
IF-051	NA	metal scrap	12
IF-052	NA	wire	4
IF-053	NA	pipe (left in place)	NA
IF-054	NA	sheet metal	2
IF-055	NA	munitions debris	6
IF-056	NA	1/4" thick square plate	8
IF-057	NA	no contact/recently graded	NA
IF-058	NA	no contact/recently graded	NA
IF-059	NA	no contact (asphalt or concrete)	NA
IF-060	NA	munitions debris	2
IF-061	NA	munitions debris	3
IF-062	NA	munitions debris	2
IF-063	NA	no contact	NA
IF-064	NA	munitions debris	2
IF-065	NA	no contact	NA
IF-066	NA	no contact/recently graded	NA
IF-067	NA	no contact	NA
IF-068	NA	illumination canister	2
IF-069	NA	no contact	NA
IF-070	NA	no contact	NA
IF-071	NA	no contact	NA
IF-072	NA	rebar	0
IF-073	NA	munitions debris	2
IF-074	NA	munitions debris	2
IF-075	NA	scrap metal	0
IF-076	NA	munitions debris	4
IF-077	NA	smoke grenade/4' west of target	0
IF-078	NA	no contact/recently graded	NA
IF-079	NA	scrap metal (shared with target 80)	0
IF-080	NA	scrap metal	0
IF-081	NA	illumination canister	4
IF-082	NA	munitions debris	6
IF-083	NA	no contact/recently graded	NA



× Geophysical Anomalies
 Intrusive Investigation Area

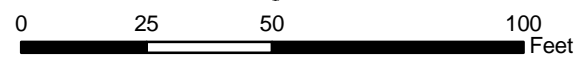


Figure 17
 Phase 5: Infirmary
 Anomaly Location and Results Map
 Camp Stanley Storage Activity
 Parsons

Anomaly ID	mV	Description	Depth
IFB-001	148.50	iron bar	2
IFB-002	162.50	iron bar	2
IFB-003	37.40	munitions debris	6
IFB-004	10.00	no contact	-
IFB-005	25.40	munitions debris	6
IFB-006	13.20	munitions debris	4
IFB-007	6.10	no contact	-
IFB-008	10.50	munitions debris	3
IFB-009	7.10	munitions debris	8
IFB-010	6.50	no contact	-
IFB-011	4.40	nail	4
IFB-012	9.50	nail	2
IFB-013	8.20	munitions debris	6
IFB-014	22.50	wire	0
IFB-015	16.40	wire	0
IFB-016	7.00	no contact	-
IFB-017	31.90	wire	3
IFB-018	6.50	wire	0
IFB-019	7.10	no contact	-
IFB-020	15.10	munitions debris	3
IFB-021	12.90	munitions debris	3
IFB-022	4.50	no contact	-
IFB-023	7.80	no contact	-
IFB-024	23.00	no contact	-
IFB-025	35.70	no contact	-
IFB-026	4.40	munitions debris	4
IFB-027	17.00	no contact	-
IFB-028	17.60	wire	12
IFB-029	12.40	no contact	-
IFB-030	11.90	no contact	-
IFB-031	10.40	rod	6
IFB-032	4.30	no contact	-
IFB-033	11.20	tin scrap	0
IFB-034	13.00	wire	12
IFB-035	11.40	wire	12
IFB-036	5.50	wire	2
IFB-037	3.50	no contact	-
IFB-038	5.00	no contact	-
IFB-039	4.80	no contact	-
IFB-040	4.70	munitions debris	4
IFB-041	10.40	chain	6
IFB-042	15.10	wire	6

Anomaly ID	mV	Description	Depth
IFB-043	17.80	wire	2
IFB-044	58.40	munitions debris	2
IFB-045	6.70	no contact	-
IFB-046	10.60	munitions debris	6
IFB-047	7.80	munitions debris	6
IFB-048	5.20	metal scrap	2
IFB-049	4.80	nail	4
IFB-050	6.00	munitions debris	6
IFB-051	13.00	munitions debris	6
IFB-052	4.40	tin scrap	3
IFB-053	8.40	wire	2
IFB-054	14.10	munitions debris	2
IFB-055	17.20	no contact	-
IFB-056	5.20	nail	4
IFB-057	8.50	munitions debris	6
IFB-058	6.50	no contact	-
IFB-059	8.60	nail	3
IFB-060	5.70	no contact	-
IFB-061	25.30	munitions debris	8
IFB-062	13.40	munitions debris	4
IFB-063	35.80	munitions debris	6
IFB-064	16.10	tin scrap	0
IFB-065	27.50	60mm munitions debris	3
IFB-066	5.40	no contact	-
IFB-067	4.50	munitions debris	2
IFB-068	5.90	no contact	-
IFB-069	4.30	nail	4
IFB-070	6.00	no contact	-
IFB-071	6.00	nail	8
IFB-072	4.70	rust scrap	2
IFB-073	5.70	nail	2
IFB-074	4.20	munitions debris	12
IFB-075	42.30	munitions debris	12
IFB-076	40.50	nail	4
IFB-077	24.50	no contact	-
IFB-078	50.70	no contact	-
IFB-079	12.80	railroad spike	6
IFB-080	101.60	nail	2
IFB-081	11.70	no contact	-
IFB-082	8.00	no contact	-
IFB-083	4.70	bolt	6
IFB-084	3.70	nail	6
IFB-085	5.20	20mm TPT	-
IFB-086	4.50	nail	4
IFB-087	4.00	nail	4
IFB-088	3.90	no contact	-
IFB-089	11.00	bolt	6
IFB-090	8.50	iron bar	6
IFB-091	4.80	no contact	-
IFB-092	7.10	munitions debris	2
IFB-093	11.70	bolt	6
IFB-094	12.60	munitions debris	4
IFB-095	4.30	munitions debris	2
IFB-096	10.80	munitions debris	6
IFB-097	7.80	munitions debris	6
IFB-098	31.50	munitions debris	10
IFB-099	23.60	munitions debris	11
IFB-100	4.80	nail	2
IFB-101	7.10	munitions debris	-
IFB-102	8.10	nail	6
IFB-103	28.60	munitions debris	4
IFB-104	6.40	munitions debris	12
IFB-105	72.50	wire in concrete pieces	24
IFB-106	135.30	wire in concrete pieces	24
IFB-107	20.20	tin scrap	3
IFB-108	43.50	munitions debris	3
IFB-109	4.60	munitions debris	8
IFB-110	109.90	fence post	24
IFB-111	130.10	fence post	24
IFB-112	9.10	mule shoe	12
IFB-113	7.00	no contact	-
IFB-114	6.30	no contact	-
IFB-115	11.30	munitions debris	3
IFB-116	4.50	metal scrap	4
IFB-117	8.60	metal scrap	4
IFB-118	20.70	scrap	2
IFB-119	4.60	no contact	-
IFB-120	7.10	scrap	4
IFB-121	6.10	munitions debris	4
IFB-122	14.20	munitions debris	4

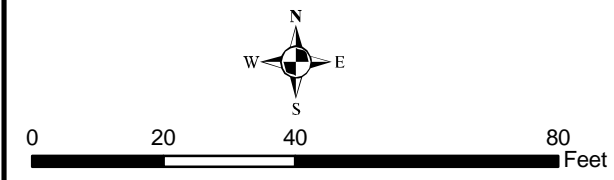
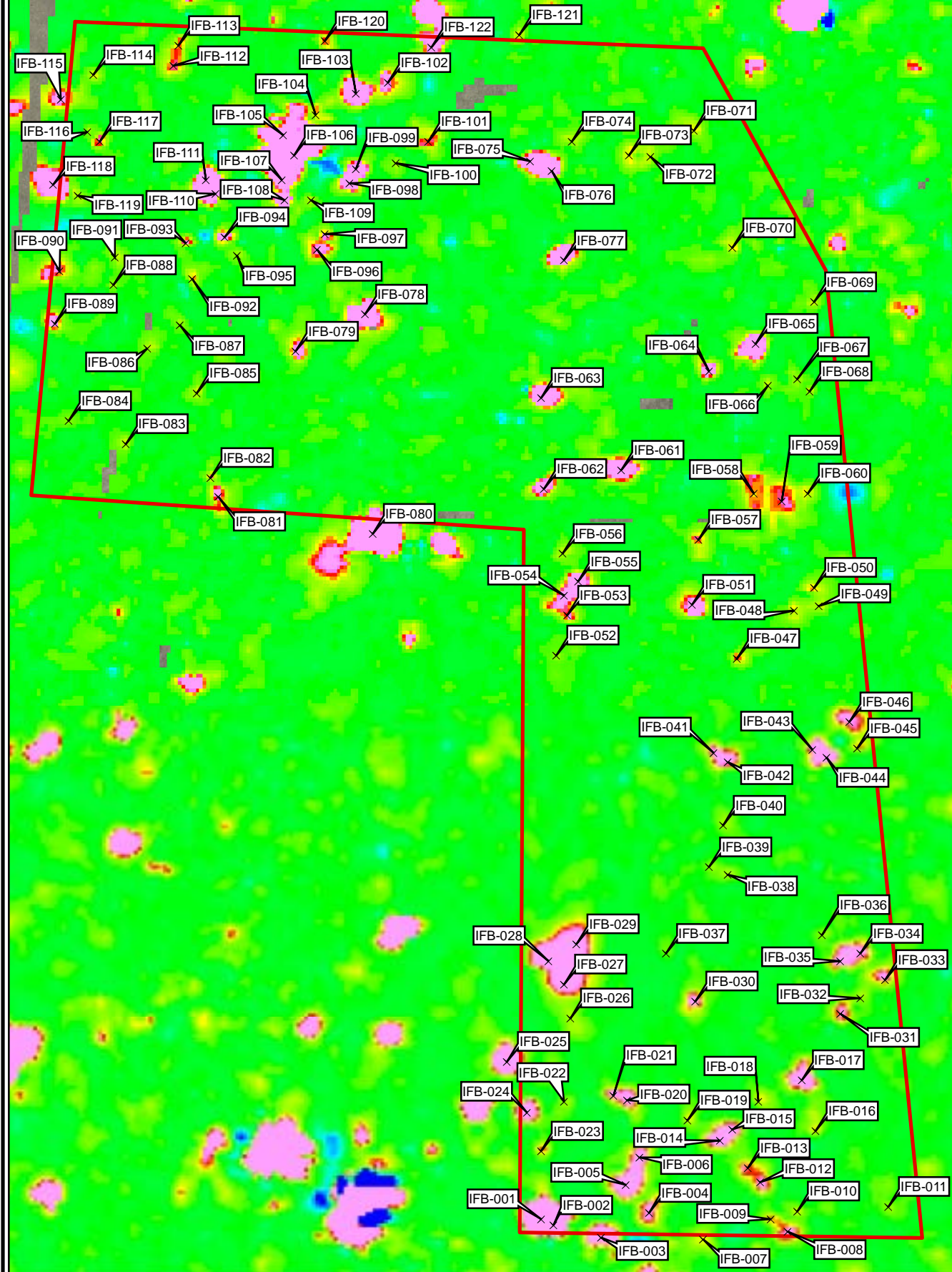
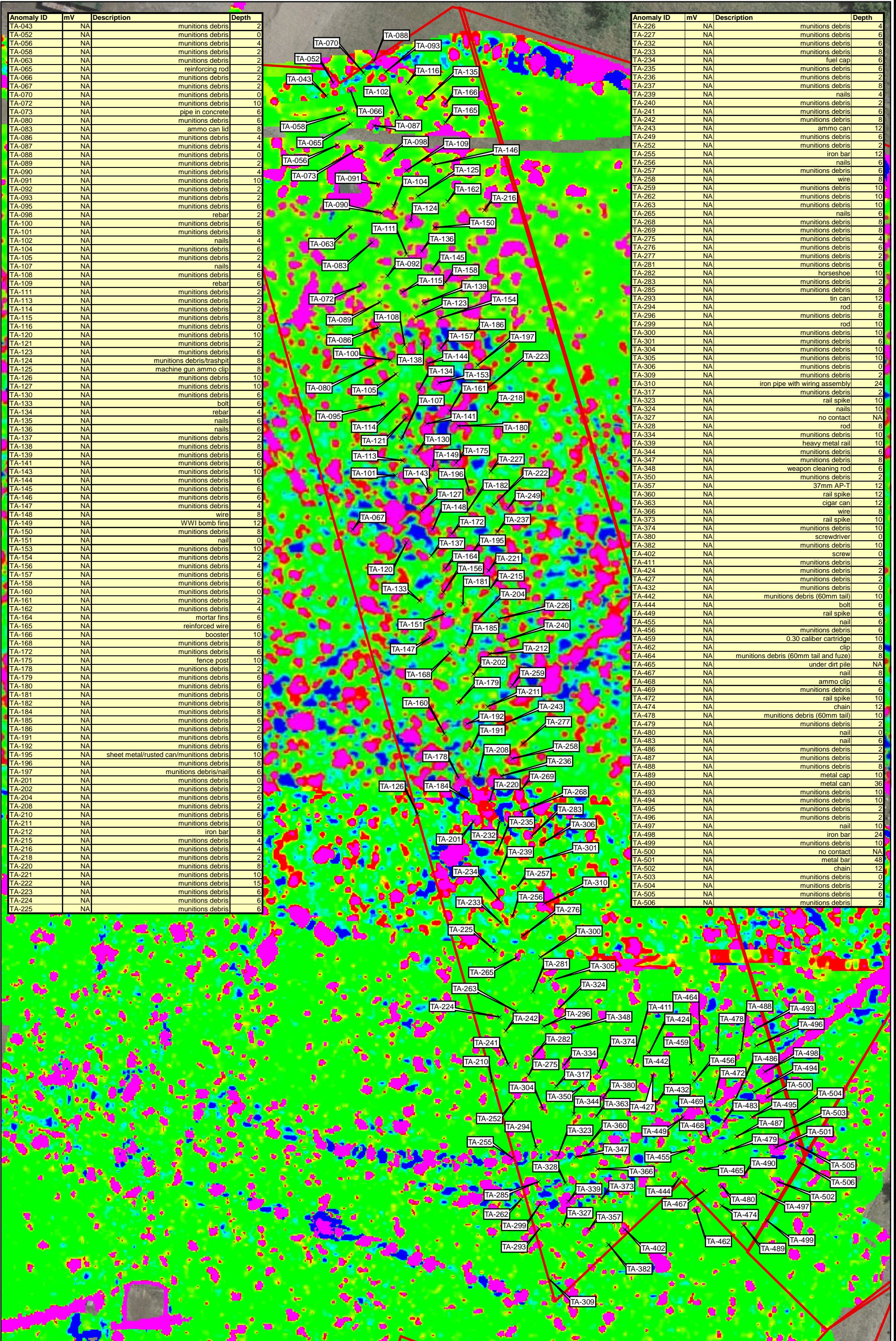


Figure 18
Phase 5: Infirmary Area Buffer
Anomaly Location and Results Map
Camp Stanley Storage Activity
Parsons



Anomaly ID	mV	Description	Depth
TA-043	NA	munitions debris	2
TA-052	NA	munitions debris	0
TA-056	NA	munitions debris	4
TA-058	NA	munitions debris	2
TA-063	NA	munitions debris	2
TA-065	NA	reinforcing rod	2
TA-066	NA	munitions debris	2
TA-067	NA	munitions debris	2
TA-070	NA	munitions debris	0
TA-072	NA	munitions debris	10
TA-073	NA	pipe in concrete	6
TA-080	NA	munitions debris	6
TA-083	NA	ammo can lid	8
TA-086	NA	munitions debris	4
TA-087	NA	munitions debris	4
TA-088	NA	munitions debris	0
TA-089	NA	munitions debris	2
TA-090	NA	munitions debris	4
TA-091	NA	munitions debris	10
TA-092	NA	munitions debris	2
TA-093	NA	munitions debris	2
TA-095	NA	munitions debris	6
TA-098	NA	rebar	2
TA-100	NA	munitions debris	6
TA-101	NA	munitions debris	8
TA-102	NA	nails	4
TA-104	NA	munitions debris	6
TA-105	NA	munitions debris	2
TA-107	NA	nails	4
TA-108	NA	munitions debris	6
TA-109	NA	rebar	6
TA-111	NA	munitions debris	2
TA-113	NA	munitions debris	2
TA-114	NA	munitions debris	2
TA-115	NA	munitions debris	8
TA-116	NA	munitions debris	0
TA-120	NA	munitions debris	10
TA-121	NA	munitions debris	2
TA-123	NA	munitions debris	6
TA-124	NA	munitions debris/trashpit	8
TA-125	NA	machine gun ammo clip	8
TA-126	NA	munitions debris	10
TA-127	NA	munitions debris	10
TA-130	NA	munitions debris	8
TA-133	NA	bolt	6
TA-134	NA	rebar	4
TA-135	NA	nails	6
TA-136	NA	nails	6
TA-137	NA	munitions debris	2
TA-138	NA	munitions debris	8
TA-139	NA	munitions debris	6
TA-141	NA	munitions debris	6
TA-143	NA	munitions debris	10
TA-144	NA	munitions debris	6
TA-145	NA	munitions debris	6
TA-146	NA	munitions debris	6
TA-147	NA	munitions debris	4
TA-148	NA	wire	8
TA-149	NA	WWI bomb fins	12
TA-150	NA	munitions debris	8
TA-151	NA	nail	0
TA-153	NA	munitions debris	10
TA-154	NA	munitions debris	2
TA-156	NA	munitions debris	4
TA-157	NA	munitions debris	6
TA-158	NA	munitions debris	6
TA-160	NA	munitions debris	0
TA-161	NA	munitions debris	2
TA-162	NA	munitions debris	4
TA-164	NA	mortar fins	6
TA-165	NA	reinforced wire	6
TA-166	NA	booster	10
TA-168	NA	munitions debris	8
TA-172	NA	munitions debris	6
TA-175	NA	fence post	10
TA-178	NA	munitions debris	2
TA-179	NA	munitions debris	6
TA-180	NA	munitions debris	6
TA-181	NA	munitions debris	0
TA-182	NA	munitions debris	8
TA-184	NA	munitions debris	8
TA-185	NA	munitions debris	6
TA-186	NA	munitions debris	2
TA-191	NA	munitions debris	6
TA-192	NA	munitions debris	6
TA-195	NA	sheet metal/rusted can/munitions debris	10
TA-196	NA	munitions debris	8
TA-197	NA	munitions debris/nail	6
TA-201	NA	munitions debris	0
TA-202	NA	munitions debris	2
TA-204	NA	munitions debris	6
TA-208	NA	munitions debris	2
TA-210	NA	munitions debris	6
TA-211	NA	munitions debris	0
TA-212	NA	iron bar	8
TA-215	NA	munitions debris	4
TA-216	NA	munitions debris	4
TA-218	NA	munitions debris	2
TA-220	NA	munitions debris	8
TA-221	NA	munitions debris	10
TA-222	NA	munitions debris	15
TA-223	NA	munitions debris	6
TA-224	NA	munitions debris	6
TA-225	NA	munitions debris	6

Anomaly ID	mV	Description	Depth
TA-226	NA	munitions debris	4
TA-227	NA	munitions debris	6
TA-232	NA	munitions debris	6
TA-233	NA	munitions debris	8
TA-234	NA	fuel cap	6
TA-235	NA	munitions debris	6
TA-236	NA	munitions debris	2
TA-237	NA	munitions debris	8
TA-239	NA	nails	4
TA-240	NA	munitions debris	2
TA-241	NA	munitions debris	6
TA-242	NA	munitions debris	8
TA-243	NA	ammo can	12
TA-249	NA	munitions debris	6
TA-252	NA	munitions debris	2
TA-255	NA	iron bar	12
TA-256	NA	nails	6
TA-257	NA	munitions debris	6
TA-258	NA	wire	8
TA-259	NA	munitions debris	10
TA-262	NA	munitions debris	10
TA-263	NA	munitions debris	10
TA-265	NA	nails	6
TA-268	NA	munitions debris	8
TA-269	NA	munitions debris	8
TA-275	NA	munitions debris	4
TA-276	NA	munitions debris	6
TA-277	NA	munitions debris	2
TA-281	NA	munitions debris	6
TA-282	NA	horseshoe	10
TA-283	NA	munitions debris	2
TA-285	NA	munitions debris	8
TA-293	NA	tin can	12
TA-294	NA	rod	6
TA-296	NA	munitions debris	8
TA-299	NA	rod	10
TA-300	NA	munitions debris	10
TA-301	NA	munitions debris	6
TA-304	NA	munitions debris	10
TA-305	NA	munitions debris	10
TA-306	NA	munitions debris	0
TA-309	NA	munitions debris	2
TA-310	NA	iron pipe with wiring assembly	24
TA-317	NA	munitions debris	2
TA-323	NA	rail spike	10
TA-324	NA	nails	10
TA-327	NA	no contact	NA
TA-328	NA	rod	8
TA-334	NA	munitions debris	10
TA-339	NA	heavy metal rail	10
TA-344	NA	munitions debris	6
TA-347	NA	munitions debris	8
TA-348	NA	weapon cleaning rod	6
TA-350	NA	munitions debris	2
TA-357	NA	37mm AP-T	12
TA-360	NA	rail spike	12
TA-363	NA	cigar can	12
TA-366	NA	wire	8
TA-373	NA	rail spike	10
TA-374	NA	munitions debris	10
TA-380	NA	screwdriver	0
TA-382	NA	munitions debris	10
TA-402	NA	screw	0
TA-411	NA	munitions debris	2
TA-424	NA	munitions debris	2
TA-427	NA	munitions debris	2
TA-432	NA	munitions debris	0
TA-442	NA	munitions debris (60mm tail)	10
TA-444	NA	bolt	6
TA-449	NA	rail spike	6
TA-455	NA	nail	6
TA-456	NA	munitions debris	6
TA-459	NA	0.30 caliber cartridge	10
TA-462	NA	clip	8
TA-464	NA	munitions debris (60mm tail and fuze)	8
TA-465	NA	under dirt pile	NA
TA-467	NA	nail	8
TA-468	NA	ammo clip	6
TA-469	NA	munitions debris	6
TA-472	NA	rail spike	10
TA-474	NA	chain	12
TA-478	NA	munitions debris (60mm tail)	10
TA-479	NA	munitions debris	2
TA-480	NA	nail	0
TA-483	NA	nail	6
TA-486	NA	munitions debris	2
TA-487	NA	munitions debris	2
TA-488	NA	munitions debris	8
TA-489	NA	metal cap	10
TA-490	NA	metal can	36
TA-493	NA	munitions debris	10
TA-494	NA	munitions debris	10
TA-495	NA	munitions debris	2
TA-496	NA	munitions debris	2
TA-497	NA	nail	10
TA-498	NA	iron bar	24
TA-499	NA	munitions debris	10
TA-500	NA	no contact	NA
TA-501	NA	metal bar	48
TA-502	NA	chain	12
TA-503	NA	munitions debris	0
TA-504	NA	munitions debris	2
TA-505	NA	munitions debris	6
TA-506	NA	munitions debris	2

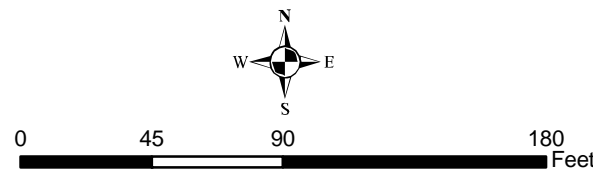
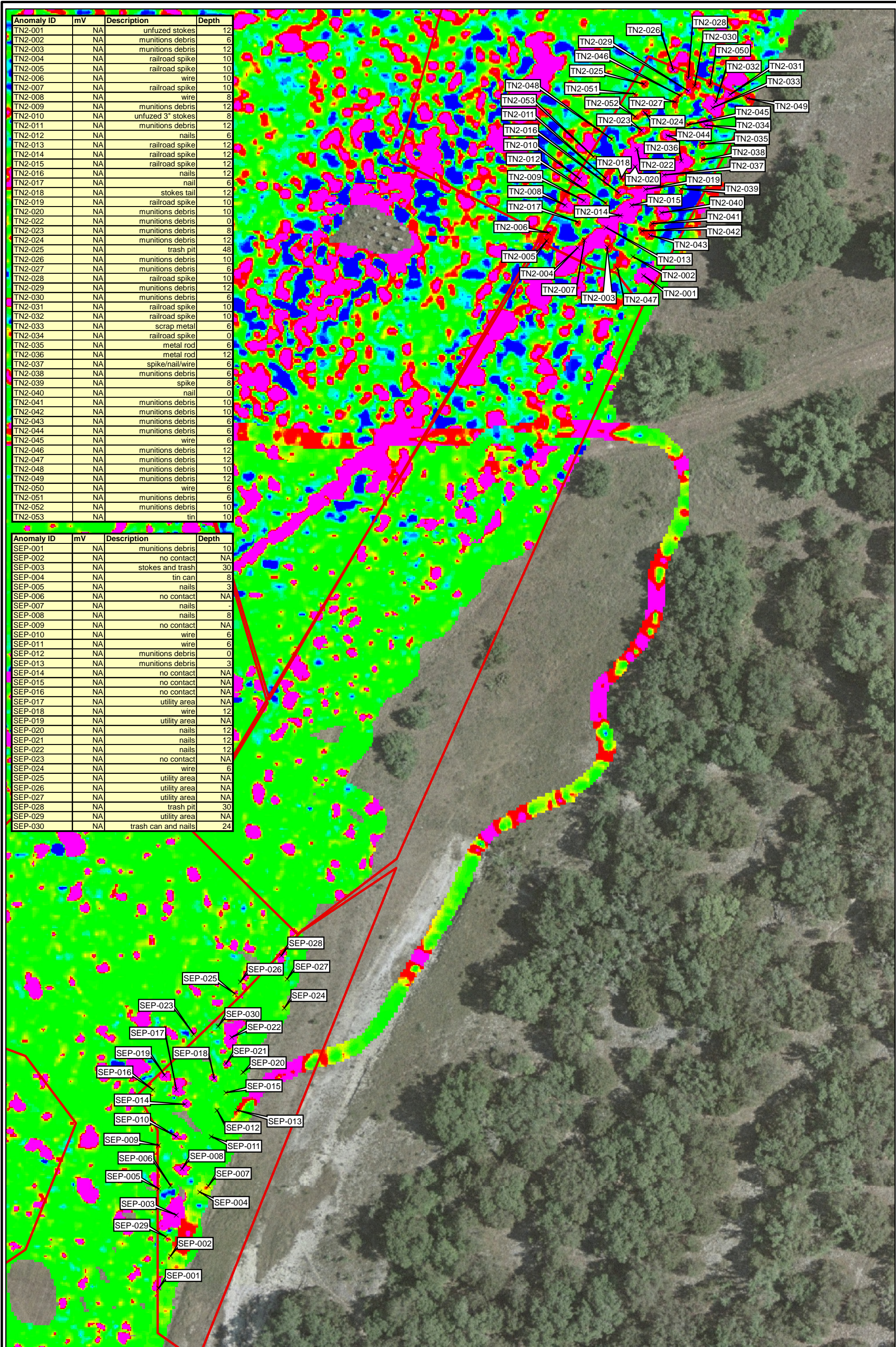
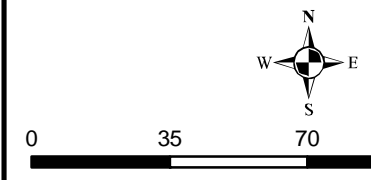


Figure 20
Phase 5 Tunnel/Trench Area
Anomaly Location and Results Map - 1
Camp Stanley Storage Activity
Parsons



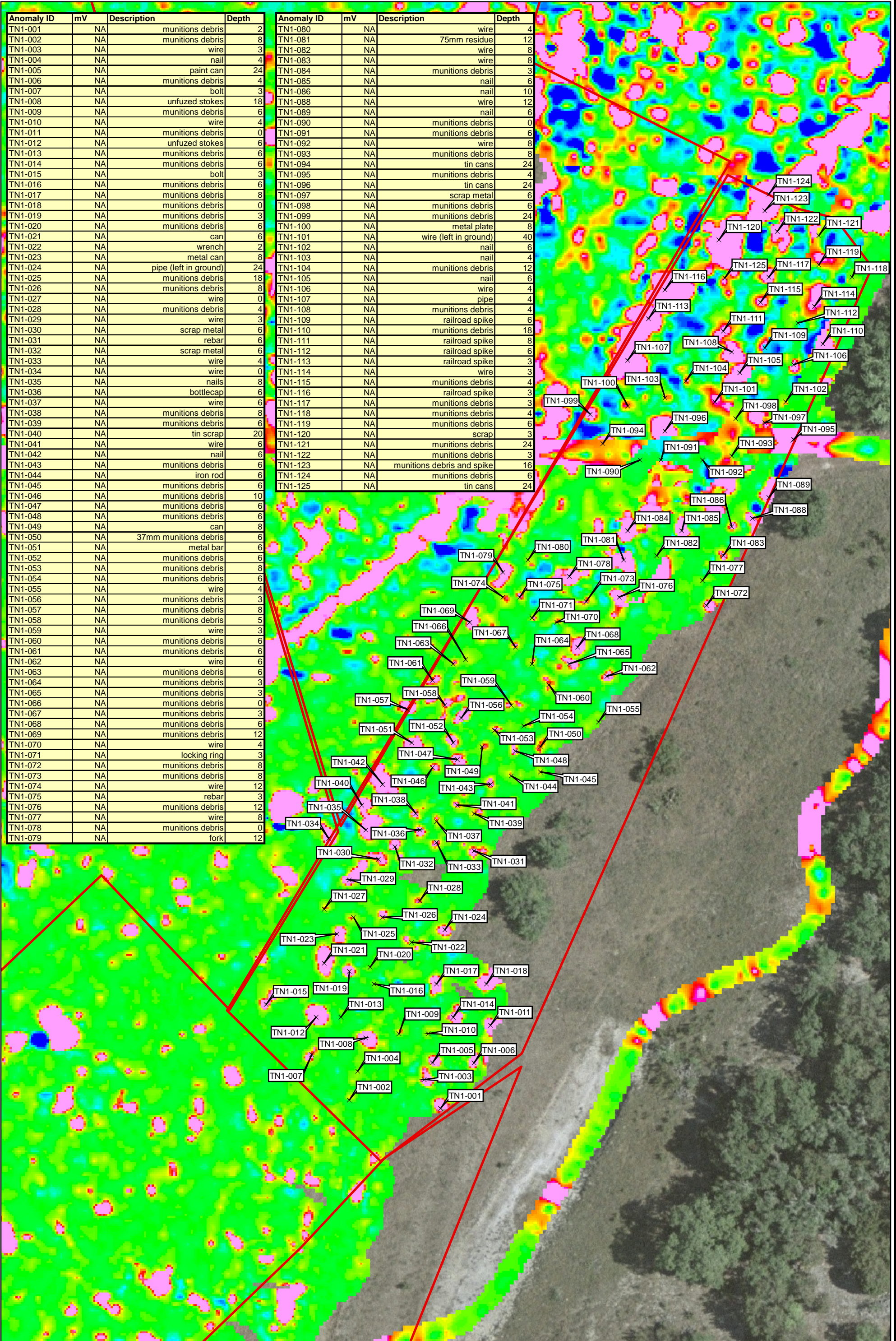
Anomaly ID	mV	Description	Depth
TN2-001	NA	unfuzed stokes	12
TN2-002	NA	munitions debris	6
TN2-003	NA	munitions debris	12
TN2-004	NA	railroad spike	10
TN2-005	NA	railroad spike	10
TN2-006	NA	wire	10
TN2-007	NA	railroad spike	10
TN2-008	NA	wire	8
TN2-009	NA	munitions debris	12
TN2-010	NA	unfuzed 3" stokes	8
TN2-011	NA	munitions debris	12
TN2-012	NA	nails	6
TN2-013	NA	railroad spike	12
TN2-014	NA	railroad spike	12
TN2-015	NA	railroad spike	12
TN2-016	NA	nails	12
TN2-017	NA	nail	6
TN2-018	NA	stokes tail	12
TN2-019	NA	railroad spike	10
TN2-020	NA	munitions debris	10
TN2-022	NA	munitions debris	0
TN2-023	NA	munitions debris	8
TN2-024	NA	munitions debris	12
TN2-025	NA	trash pit	48
TN2-026	NA	munitions debris	10
TN2-027	NA	munitions debris	6
TN2-028	NA	railroad spike	10
TN2-029	NA	munitions debris	12
TN2-030	NA	munitions debris	6
TN2-031	NA	railroad spike	10
TN2-032	NA	railroad spike	10
TN2-033	NA	scrap metal	6
TN2-034	NA	railroad spike	0
TN2-035	NA	metal rod	6
TN2-036	NA	metal rod	12
TN2-037	NA	spike/nail/wire	6
TN2-038	NA	munitions debris	6
TN2-039	NA	spike	8
TN2-040	NA	nail	0
TN2-041	NA	munitions debris	10
TN2-042	NA	munitions debris	10
TN2-043	NA	munitions debris	6
TN2-044	NA	munitions debris	6
TN2-045	NA	wire	6
TN2-046	NA	munitions debris	12
TN2-047	NA	munitions debris	12
TN2-048	NA	munitions debris	10
TN2-049	NA	munitions debris	12
TN2-050	NA	wire	6
TN2-051	NA	munitions debris	6
TN2-052	NA	munitions debris	10
TN2-053	NA	tin	10

Anomaly ID	mV	Description	Depth
SEP-001	NA	munitions debris	10
SEP-002	NA	no contact	NA
SEP-003	NA	stokes and trash	30
SEP-004	NA	tin can	8
SEP-005	NA	nails	3
SEP-006	NA	no contact	NA
SEP-007	NA	nails	-
SEP-008	NA	nails	8
SEP-009	NA	no contact	NA
SEP-010	NA	wire	6
SEP-011	NA	wire	6
SEP-012	NA	munitions debris	0
SEP-013	NA	munitions debris	3
SEP-014	NA	no contact	NA
SEP-015	NA	no contact	NA
SEP-016	NA	no contact	NA
SEP-017	NA	utility area	NA
SEP-018	NA	wire	12
SEP-019	NA	utility area	NA
SEP-020	NA	nails	12
SEP-021	NA	nails	12
SEP-022	NA	nails	12
SEP-023	NA	no contact	NA
SEP-024	NA	wire	6
SEP-025	NA	utility area	NA
SEP-026	NA	utility area	NA
SEP-027	NA	utility area	NA
SEP-028	NA	trash pit	30
SEP-029	NA	utility area	NA
SEP-030	NA	trash can and nails	24



x Geophysical Anomalies
 [Red Outline] Intrusive Investigation Area

Figure 21
 Phase 5 Tunnel/Trench Area
 Anomaly Location and Results Map - 2
 Camp Stanley Storage Activity
 Parsons



Anomaly ID	mV	Description	Depth
TN1-001	NA	munitions debris	2
TN1-002	NA	munitions debris	8
TN1-003	NA	wire	3
TN1-004	NA	nail	4
TN1-005	NA	paint can	24
TN1-006	NA	munitions debris	4
TN1-007	NA	bolt	3
TN1-008	NA	unfuzed stokes	18
TN1-009	NA	munitions debris	6
TN1-010	NA	wire	4
TN1-011	NA	munitions debris	0
TN1-012	NA	unfuzed stokes	6
TN1-013	NA	munitions debris	6
TN1-014	NA	munitions debris	6
TN1-015	NA	bolt	3
TN1-016	NA	munitions debris	6
TN1-017	NA	munitions debris	8
TN1-018	NA	munitions debris	0
TN1-019	NA	munitions debris	3
TN1-020	NA	munitions debris	6
TN1-021	NA	can	6
TN1-022	NA	wrench	2
TN1-023	NA	metal can	8
TN1-024	NA	pipe (left in ground)	24
TN1-025	NA	munitions debris	18
TN1-026	NA	munitions debris	8
TN1-027	NA	wire	0
TN1-028	NA	munitions debris	4
TN1-029	NA	wire	3
TN1-030	NA	scrap metal	6
TN1-031	NA	rebar	6
TN1-032	NA	scrap metal	6
TN1-033	NA	wire	4
TN1-034	NA	wire	0
TN1-035	NA	nails	8
TN1-036	NA	bottlecap	6
TN1-037	NA	wire	6
TN1-038	NA	munitions debris	8
TN1-039	NA	munitions debris	6
TN1-040	NA	tin scrap	20
TN1-041	NA	wire	6
TN1-042	NA	nail	6
TN1-043	NA	munitions debris	6
TN1-044	NA	iron rod	6
TN1-045	NA	munitions debris	6
TN1-046	NA	munitions debris	10
TN1-047	NA	munitions debris	6
TN1-048	NA	munitions debris	6
TN1-049	NA	can	8
TN1-050	NA	37mm munitions debris	6
TN1-051	NA	metal bar	6
TN1-052	NA	munitions debris	6
TN1-053	NA	munitions debris	8
TN1-054	NA	munitions debris	6
TN1-055	NA	wire	4
TN1-056	NA	munitions debris	3
TN1-057	NA	munitions debris	8
TN1-058	NA	munitions debris	5
TN1-059	NA	wire	3
TN1-060	NA	munitions debris	6
TN1-061	NA	munitions debris	6
TN1-062	NA	wire	6
TN1-063	NA	munitions debris	6
TN1-064	NA	munitions debris	3
TN1-065	NA	munitions debris	3
TN1-066	NA	munitions debris	0
TN1-067	NA	munitions debris	3
TN1-068	NA	munitions debris	6
TN1-069	NA	munitions debris	12
TN1-070	NA	wire	4
TN1-071	NA	locking ring	3
TN1-072	NA	munitions debris	8
TN1-073	NA	munitions debris	8
TN1-074	NA	wire	12
TN1-075	NA	rebar	3
TN1-076	NA	munitions debris	12
TN1-077	NA	wire	8
TN1-078	NA	munitions debris	0
TN1-079	NA	fork	12

Anomaly ID	mV	Description	Depth
TN1-080	NA	wire	4
TN1-081	NA	75mm residue	12
TN1-082	NA	wire	8
TN1-083	NA	wire	8
TN1-084	NA	munitions debris	3
TN1-085	NA	nail	6
TN1-086	NA	nail	10
TN1-088	NA	wire	12
TN1-089	NA	nail	6
TN1-090	NA	munitions debris	0
TN1-091	NA	munitions debris	6
TN1-092	NA	wire	8
TN1-093	NA	munitions debris	8
TN1-094	NA	tin cans	24
TN1-095	NA	munitions debris	4
TN1-096	NA	tin cans	24
TN1-097	NA	scrap metal	6
TN1-098	NA	munitions debris	6
TN1-099	NA	munitions debris	24
TN1-100	NA	metal plate	8
TN1-101	NA	wire (left in ground)	40
TN1-102	NA	nail	6
TN1-103	NA	nail	4
TN1-104	NA	munitions debris	12
TN1-105	NA	nail	6
TN1-106	NA	wire	4
TN1-107	NA	pipe	4
TN1-108	NA	munitions debris	4
TN1-109	NA	railroad spike	6
TN1-110	NA	munitions debris	18
TN1-111	NA	railroad spike	8
TN1-112	NA	railroad spike	6
TN1-113	NA	railroad spike	3
TN1-114	NA	wire	3
TN1-115	NA	munitions debris	4
TN1-116	NA	railroad spike	3
TN1-117	NA	munitions debris	3
TN1-118	NA	munitions debris	4
TN1-119	NA	munitions debris	6
TN1-120	NA	scrap	3
TN1-121	NA	munitions debris	24
TN1-122	NA	munitions debris	3
TN1-123	NA	munitions debris and spike	16
TN1-124	NA	munitions debris	6
TN1-125	NA	tin cans	24

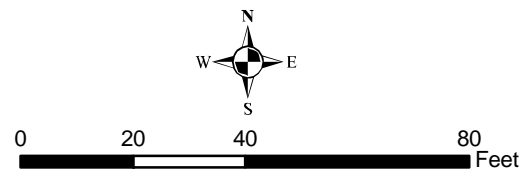
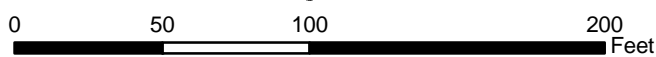
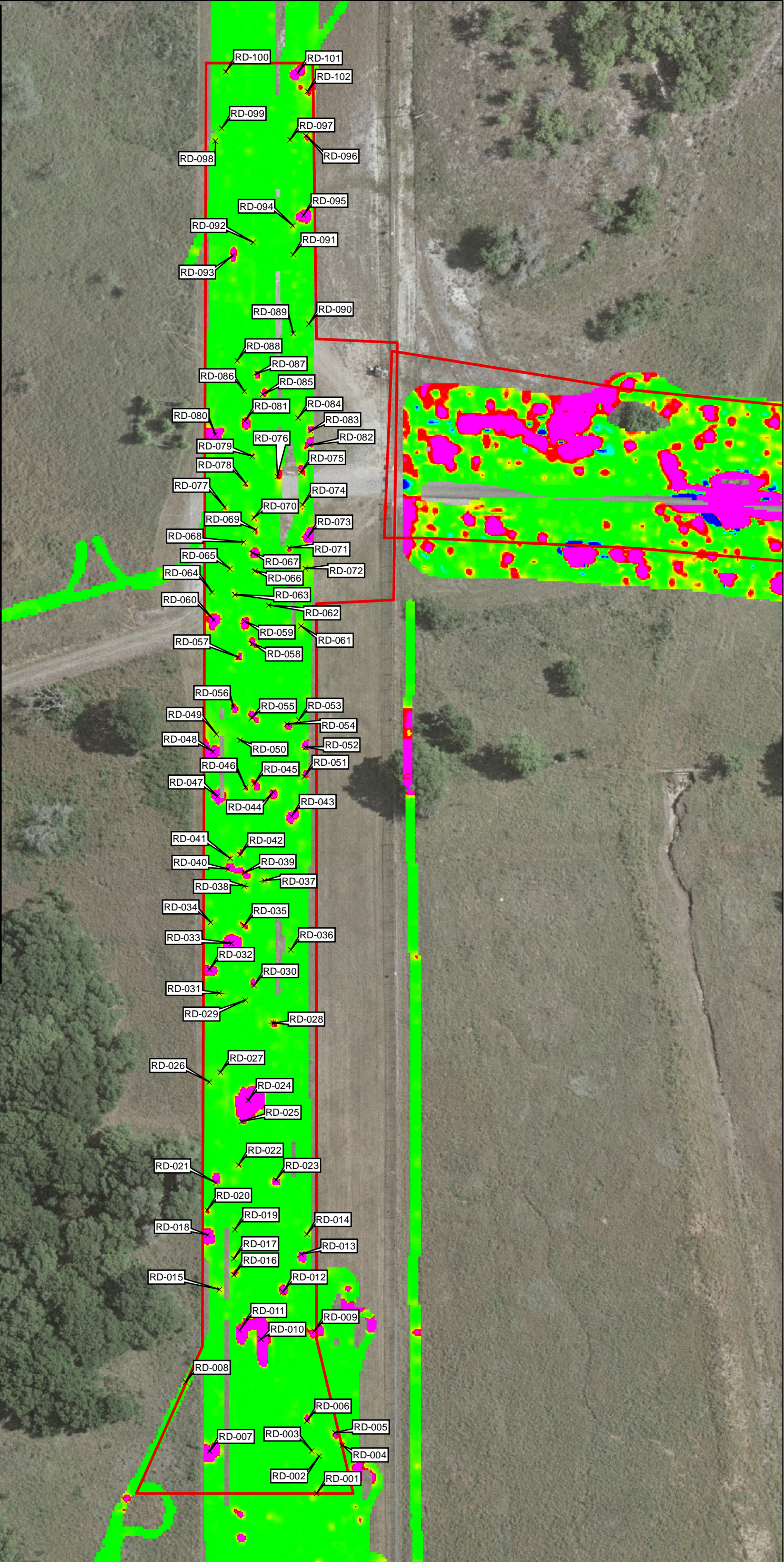


Figure 22
Phase 5 Tunnel/Trench Area
Anomaly Location and Results Map - 3
Camp Stanley Storage Activity
Parsons

Anomaly ID	mV	Description	Depth
RD-001	4.8	no contact	-
RD-002	4.2	no contact	-
RD-003	5.7	wire	6
RD-004	7.2	wire	3
RD-005	11.1	no contact	-
RD-006	13.5	pipe	8
RD-007	63.1	wire	18
RD-008	4.8	wire	6
RD-009	12.6	wire	4
RD-010	67	under pavement	-
RD-011	73	rebar w/ concrete	24
RD-012	19.3	chain	6
RD-013	47.9	wire loop	4
RD-014	5.2	no contact	-
RD-015	6.8	wire	24
RD-016	9.6	horseshoe	6
RD-017	6.7	wire	2
RD-018	21	horseshoe	6
RD-019	5.4	too small to locate	-
RD-020	7.1	no contact	-
RD-021	22.1	wire loop	12
RD-022	7.3	no contact	-
RD-023	21.4	bolt	6
RD-024	34.7	under pavement	-
RD-025	16.6	wire and concrete	24
RD-026	5.1	wire	6
RD-027	4.4	no contact	-
RD-028	9.7	bolt	8
RD-029	4.7	under pavement	-
RD-030	15.3	under pavement	-
RD-031	5.9	wire	8
RD-032	28.6	bolt	6
RD-033	17.2	road sign	-
RD-034	5.3	wire	-
RD-035	9.1	under pavement	-
RD-036	5.1	no contact	-
RD-037	4.7	under pavement	-
RD-038	5.5	under pavement	-
RD-039	13.2	under pavement	-
RD-040	13	bolt	6
RD-041	6	munitions debris	4
RD-042	10.8	no contact	-
RD-043	25.6	wire	36
RD-044	12.9	no contact/edge of pavement	-
RD-045	12.8	under pavement	-
RD-046	8.3	under pavement	-
RD-047	35.2	bolt	8
RD-048	48.6	no contact	-
RD-049	4.4	pick axe tool	24
RD-050	4.1	under pavement	-
RD-051	11.8	roll	8
RD-052	16.4	wire	18
RD-053	5.9	wire	4
RD-054	11.3	metal brace	6
RD-055	20	under pavement	-
RD-056	12.8	bolt	12
RD-057	10.3	wire	12
RD-058	12.4	under pavement	-
RD-059	13.2	under pavement	-
RD-060	13.8	no contact	-
RD-061	5.5	wire	0
RD-062	3.6	under pavement	-
RD-063	6.8	bolt	24
RD-064	4.2	bolt	24
RD-065	5.2	bolt	24
RD-066	6.5	under pavement	-
RD-067	23.4	under pavement	-
RD-068	6.1	under pavement	-
RD-069	8.4	under pavement	-
RD-070	6.7	under pavement	-
RD-071	8.3	wire	24
RD-072	4.1	no contact	-
RD-073	33.8	wire	18
RD-074	7.1	culvert marker	-
RD-075	9.1	culvert marker	-
RD-076	8.3	under pavement	-
RD-077	8.6	wire	-
RD-078	8.6	under pavement	-
RD-079	6.6	under pavement	-
RD-080	31.5	metal rod	1
RD-081	13.5	under pavement	-
RD-082	19.5	wire	6
RD-083	8.7	no contact	-
RD-084	4	no contact	-
RD-085	10.5	under pavement	-
RD-086	3.4	under pavement	-
RD-087	10.1	under pavement	-
RD-088	4.5	under pavement	-
RD-089	4.8	no contact	-
RD-090	3.8	no contact	-
RD-091	4.4	no contact	-
RD-092	5.6	under pavement	-
RD-093	14.4	small wire	22
RD-094	5.6	no contact	-
RD-095	15.5	wire	0
RD-096	11.5	wire	18
RD-097	4.3	no contact	-
RD-098	4.3	nail	6
RD-099	3.2	nail	8
RD-100	4.7	wire	6
RD-101	24.5	wire and horseshoe	0.6
RD-102	9.1	wire	12



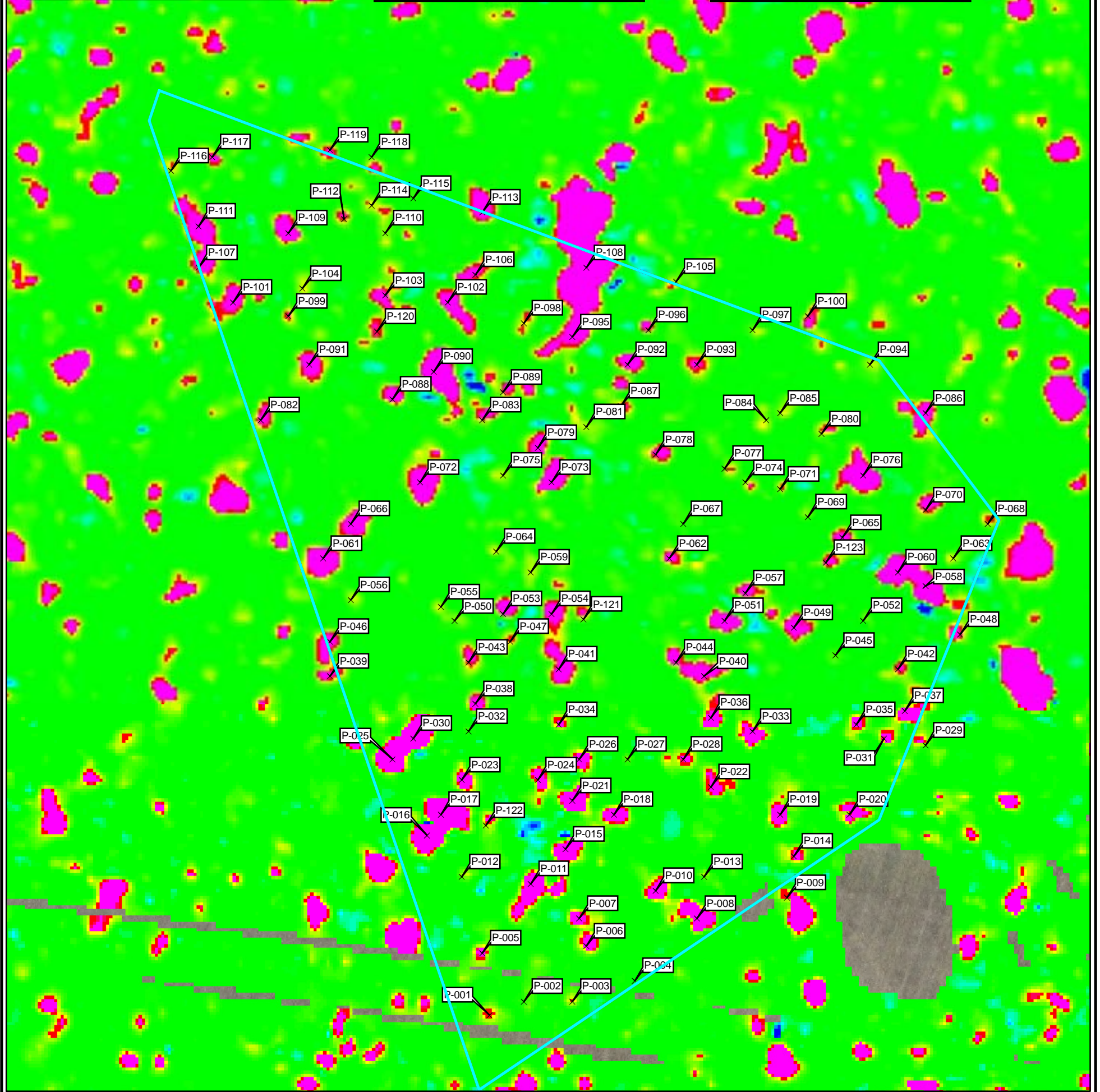
- × Geophysical Anomalies
- ▭ Intrusive Investigation Area

Figure 23
Phase 5: Outer Road
Anomaly Location and Results Map
Camp Stanley Storage Activity
Parsons

Anomaly ID	mV	Description	Depth
P-001		magnet	3
P-002		no contact	-
P-003		no contact	-
P-004		screw	1
P-005		no contact	-
P-006		wire and nail	0
P-007		conduit and munitions debris	0, 1
P-008		no contact	-
P-009		rebar and nail	0, 1
P-010		rod and munitions debris	0, 2
P-011		munitions debris	4
P-012		munitions debris	3
P-013		munitions debris	2
P-014		munitions debris	2
P-015		munitions debris	2
P-016		munitions debris	3
P-017		3 metal rods	8
P-018		munitions debris	2
P-019		munitions debris	1
P-020		munitions debris	2
P-021		no contact	-
P-022		wire	3
P-023		munitions debris	2
P-024		munitions debris	3
P-025		munitions debris	2
P-026		munitions debris	2
P-027		no contact	-
P-028		munitions debris	2
P-029		nail	2
P-030		munitions debris	0
P-031		no contact	-
P-032		no contact	-
P-033		no contact	-
P-034		wire	2
P-035		no contact	-
P-036		no contact	-
P-037		munitions debris	3
P-038		no contact	-
P-039		nail	1
P-040		no contact	-
P-041		2 munitions debris shards	0

Anomaly ID	mV	Description	Depth
P-042		munitions debris	4
P-043		munitions debris	2
P-044		munitions debris	3
P-045		no contact	-
P-046		no contact	-
P-047		no contact	-
P-048		no contact	-
P-049		munitions debris	6
P-050		munitions debris	2
P-051		munitions debris	4
P-052		no contact	-
P-053		no contact	-
P-054		munitions debris	3
P-055		no contact	-
P-056		no contact	-
P-057		no contact	-
P-058		no contact	-
P-059		wire	2
P-060		munitions debris	6
P-061		munitions debris	3
P-062		no contact	-
P-063		no contact	-
P-064		magnet	6
P-065		1/2 of a horseshoe	4
P-066		munitions debris	4
P-067		no contact	-
P-068		no contact	-
P-069		piece of magnet	8
P-070		magnet	4
P-071		no contact	-
P-072		munitions debris	9
P-073		no contact	-
P-074		no contact	-
P-075		no contact	-
P-076		munitions debris	6
P-077		no contact	-
P-078		no contact	-
P-079		no contact	-
P-080		no contact	-
P-081		no contact	-
P-082		munitions debris	3

Anomaly ID	mV	Description	Depth
P-083		no contact	-
P-084		no contact	-
P-085		no contact	-
P-086		no contact	-
P-087		no contact	-
P-088		munitions debris	2
P-089		no contact	-
P-090		no contact	-
P-091		munitions debris	0
P-092		nail	4
P-093		no contact	-
P-094		no contact	-
P-095		munitions debris	2
P-096		munitions debris	2
P-097		no contact	-
P-098		no contact	-
P-099		bolt	4
P-100		no contact	-
P-101		munitions debris	6
P-102		munitions debris	3
P-103		no contact	-
P-104		no contact	-
P-105		no contact	-
P-106		munitions debris	2
P-107		munitions debris	3
P-108		munitions debris	12
P-109		no contact	-
P-110		munitions debris	3
P-111		munitions debris	4
P-112		pipe	2
P-113		no contact	-
P-114		munitions debris	3
P-115		no contact	-
P-116		no contact	-
P-117		no contact	-
P-118		munitions debris	3
P-119		munitions debris	3
P-120		no contact	-
P-121		no contact	-
P-122		no contact	-
P-123		no contact	-



0 15 30 60 Feet

x Geophysical Anomalies
 [Red Outline] Intrusive Investigation Area

Figure 24
 Phase 6: Building 709 Parking Area
 Anomaly Location and Results Map
 Camp Stanley Storage Activity

Parsons

Anomaly ID	mV	Description	Depth	Anomaly ID	mV	Description	Depth	Anomaly ID	mV	Description	Depth
TNS-001		no contact	-	TNS-094		bolts	24	TNS-162		munitions debris	3
TNS-002		munitions debris and scrap can	2	TNS-096		munitions debris	3	TNS-165		railroad spike	2
TNS-003		naill	2	TNS-097		railroad spike	2	TNS-166		trash pit	36
TNS-004		munitions debris	2	TNS-099		wire	6	TNS-167		munitions debris	3
TNS-005		rail piece	0	TNS-100		munitions debris	4	TNS-174		munitions debris	6
TNS-006		munitions debris	2	TNS-101		munitions debris	6	TNS-175		can	12
TNS-007		munitions debris	3	TNS-102		munitions debris	6	TNS-180		wire	2
TNS-008		no contact	-	TNS-103		munitions debris	4	TNS-181		no contact	-
TNS-009		munitions debris	2	TNS-104		munitions debris	3	TNS-182		munitions debris	3
TNS-010		wire	2	TNS-105		munitions debris	6	TNS-183		munitions debris	3
TNS-011		munitions debris	1	TNS-108		munitions debris with HE residue	8	TNS-184		munitions debris	2
TNS-012		no contact	-	TNS-109		railroad spike	1	TNS-186		bolt	4
TNS-013		no contact	-	TNS-110		munitions debris	3	TNS-192		bolt	3
TNS-014		no contact	-	TNS-113		munitions debris	6	TNS-193		munitions debris	2
TNS-015		no contact	-	TNS-114		munitions debris	0	TNS-195		munitions debris	12
TNS-016		munitions debris	0	TNS-116		munitions debris	3	TNS-196		rod and wire	30
TNS-017		munitions debris	0	TNS-117		can	2	TNS-199		munitions debris	1
TNS-018		munitions debris	6	TNS-118		railroad spikes	2	TNS-200		munitions debris	1
TNS-019		railroad spike	1	TNS-122		wire	24	TNS-207		no contact	-
TNS-020		wire	10	TNS-123		munitions debris shards	12	TNS-210		munitions debris	-
TNS-021		munitions debris	3	TNS-125		munitions debris	6	TNS-216		munitions debris	-
TNS-022		bolt	2	TNS-126		munitions debris	4	TNS-406		railroad spike	3
TNS-023		wire	4	TNS-130		munitions debris	2	TNS-407		munitions debris	0
TNS-024		no contact	-	TNS-131		munitions debris	2	TNS-417		munitions debris	2
TNS-025		no contact	-	TNS-132		munitions debris	4	TNS-421		wire bundle (4 feet southwest of flagged point)	3
TNS-026		munitions debris	2	TNS-133		wire	5	TNS-430		munitions debris	4
TNS-027		railroad spikes	0	TNS-135		munitions debris	1	TNS-431		munitions debris	4
TNS-028		no contact	-	TNS-138		trash pit/ can dump	36	TNS-439		no contact	-
TNS-029		munitions debris	2	TNS-139		railroad spike	4	TNS-441		mortar fins	2
TNS-030		munitions debris	2	TNS-140		munitions debris	2	TNS-450		no contact	-
TNS-031		no contact	-	TNS-141		spring	3	TNS-460		munitions debris	3
TNS-032		munitions debris	0	TNS-143		munitions debris	6	TNS-463		munitions debris	3
TNS-033		munitions debris	4	TNS-144		railroad spike	1	TNS-475		munitions debris	2
TNS-034		no contact	-	TNS-148		railroad spike	6	TNS-476		munitions debris	2
TNS-035		no contact	-	TNS-150		munitions debris	0	TNS-477		no contact	-
TNS-036		no contact	-	TNS-151		munitions debris	2	TNS-481		81mm mortar fins	9
TNS-037		no contact	-	TNS-152		munitions debris	10	TNS-484		munitions debris	1
TNS-038		munitions debris (3 feet west of flagged point)	4	TNS-155		munitions debris	6	TNS-485		LIVE 81mm mortar with fuze, nose down vertically in ground	6
TNS-039		no contact	-	TNS-160		munitions debris	4	TNS-491		munitions debris	2
TNS-040		munitions debris	2	TNS-161		munitions debris	2	TNS-492		naill	3

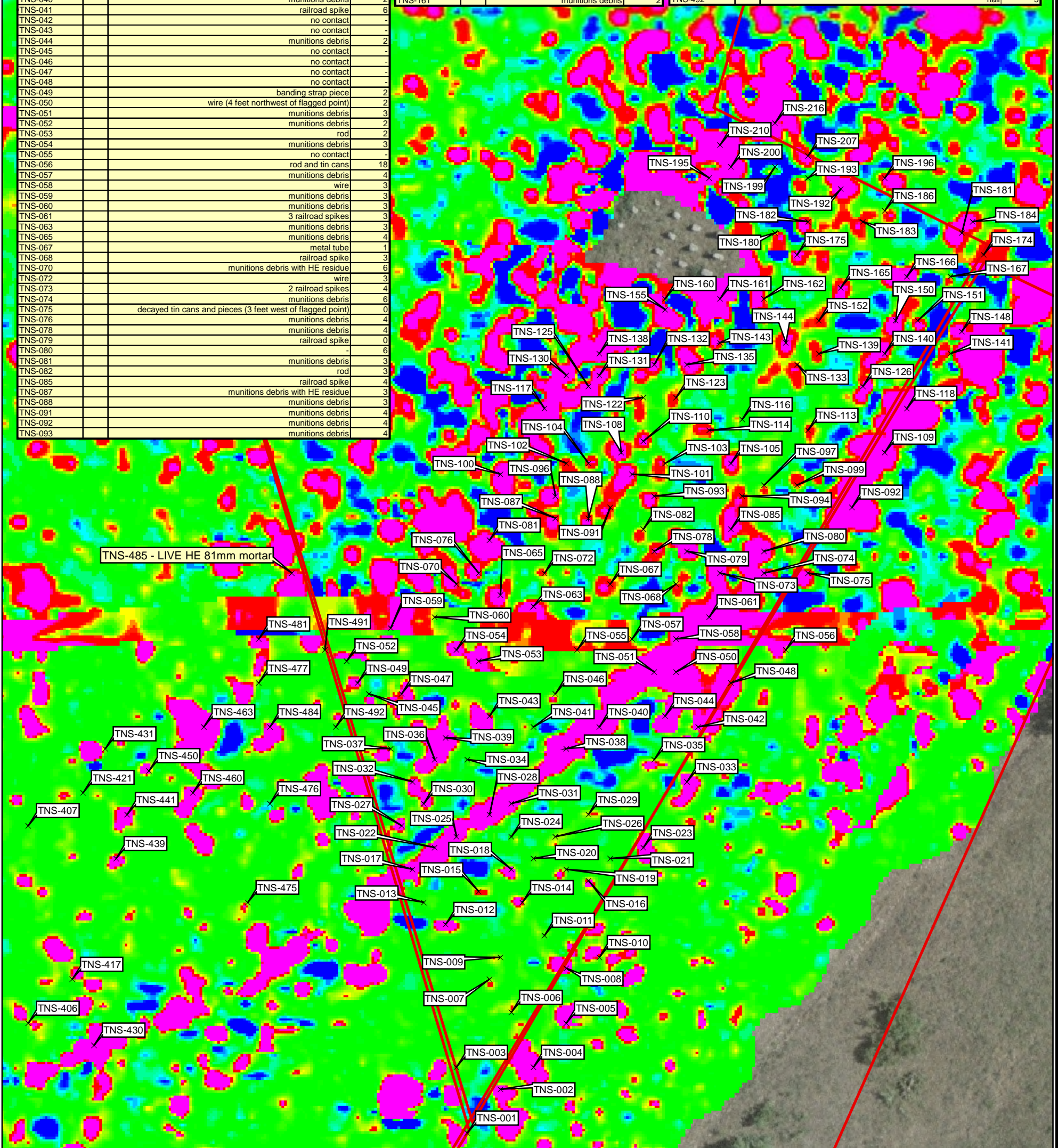


Figure 25
Phase 6: Tunnel/Trench Area
Anomaly Location and Results Map - 4
Camp Stanley Storage Activity
Parsons

SECTION 3 INVESTIGATION FINDINGS

3.1 FINDINGS

This section describes the findings during each phase of the investigation activities conducted. The dates that investigation activities for each phase were conducted are in **Table 1**.

3.1.1 Phase 1 UXO Investigation

Approximately 25 acres of geophysical surveys were conducted during Phase 1 and 5.1 acres within the surveyed areas were intrusively investigated. A total of 192 anomalies were investigated at or within a 55-foot buffer of the planned locations of three future buildings, Buildings 706, 707, and 709. No UXO items were recovered during the Phase 1 intrusive investigations. Most of the items recovered were trash items or range-related debris (pipe fittings, horse shoes, fence posts, *etc.*), but several pieces of munitions debris were found. Identifiable pieces of munitions debris that were recovered include 60mm illumination rounds, a 0.45-caliber ball round, 37mm armor-piercing high-explosive (APHE) rounds, an M49 HE mortar, and 7.62mm ball rounds. Photos of some of the intrusive findings are presented in **Appendix A**. A summary of dig results from Phases 1, 3, 5, and 6 is included as a series of tables in **Appendix B**.

Table B.1 displays the anomaly identifications (IDs), northing and easting of each investigated anomaly, mV reading of the EM-61 for each anomaly, anomaly descriptions, and the depth at which each anomaly was encountered during the intrusive investigations. **Figure 8** displays the location and findings table for each of the anomalies investigated at and within the 55-foot buffer of the Long-Range building footprint (Building 706). **Figure 9** displays the location and findings table for each of the anomalies investigated at and within the 55-foot buffer of the shoot house building footprint (Building 707). **Figure 10** displays the location and findings table for each of the anomalies investigated at and within the 55-foot buffer of the test facility building footprint (Building 709).

A portion of the Phase 1 25-acre survey area was suspected to contain WP since WP was uncovered during previous construction activities in this portion of the East Pasture. WP readily ignites when it has contact with air, and the fumes pose a health risk. Therefore, the potential presence of WP required that the soil be mechanically scraped in a controlled manner to expose it to air prior to hand-digging anomalies in the area. A 1.6-acre area was mechanically scraped to expose any potential WP. The area scraped was the location WP was encountered during the initial construction activities and the location of a “scarred” area in a 1966 aerial photograph of the East Pasture as shown on **Figure 2**. These locations were consistent with each other. The scraping was performed under the supervision of UXO specialists. The location of the suspected WP area is shown on **Figure 8**. Although WP had been discovered in the area previously, none was encountered during the scraping activities. The entire soil profile was scraped and turned over, producing no signs of WP material. Bedrock was encountered at approximately 5-6 feet bgs. In the event any waste material was generated during Phase 1 scraping activities,

characterization, transportation, and disposal of approximately 300 cubic yards (CY) of potential waste was scoped for this portion of the project. Results indicated that no waste had been generated; therefore, no disposal services were required for Phase 1 activities.

3.1.2 Phase 1 Construction Support

No construction support activities were conducted during Phase 1.

3.1.3 Phase 2 UXO Investigation

Approximately 11 acres of geophysical surveying was performed during Phase 2. A total of 305 anomalies were investigated within a 2-acre future machine gun range construction area. One UXO item, a fused 4-inch Stokes mortar, was recovered at a depth of 18 inches during the intrusive investigation. This item was blown in place by Fort Sam Houston's EOD Unit the same day it was discovered.

Most of the remaining items were munitions debris (167 items). Identifiable pieces of munitions debris that were recovered include 60mm mortars, a World War I bomb fin, a 0.50-caliber casing, 75mm projectiles, a WP grenade, and 37mm projectiles. Trash and range-related debris items included small magnets, wire, nails, pieces of railroad track, and ammunition cans. Because the East Pasture firing ranges were inactive for only a few days, limiting the amount of time available to complete intrusive investigations, less detailed records are available for the Phase 2 investigation findings. **Figure 11** shows the survey area, investigated anomaly locations, and the location of the 4-inch Stokes mortar UXO item. The last two photographs in **Appendix C** show some metal debris and the UXO item found during the intrusive investigation.

3.1.4 Phase 2 Construction Support

No construction support activities were conducted during Phase 2.

3.1.5 Phase 3 UXO Investigation

Geophysical surveys covering 18 acres were conducted during Phase 3. A total of 487 anomalies were investigated within a soil mound area, future road areas, and a septic tank area. Twenty-four anomalies were investigated in the 0.2-acre soil mound area, 402 anomalies were investigated in the 3.3 acres of future road areas, and 61 anomalies were investigated in the 0.4-acre septic tank area. No UXO items were found in the soil mound area or the septic tank area, but several munitions debris items were found in both areas. Fifty-four pieces of munitions debris were found in the septic tank area and 10 pieces of munitions debris were found in the soil mound area.

One UXO item, a fused 37mm high-explosive round, was recovered at a depth of 2 inches bgs during the intrusive investigation of the future road areas. The item was found in the northernmost road area and was blown in place by Lackland Air Force Base's EOD Unit the same day it was discovered. In addition to the 37mm UXO item, 160 pieces of munitions debris were recovered during intrusive investigations in the future road areas.

Table B.2 displays the anomaly IDs, northing and easting of each investigated anomaly, mV reading of the EM-61 for each anomaly, anomaly descriptions, and the depth at which each anomaly was encountered during the intrusive investigations. **Figures 12, 13, and 14** display the

location and findings table for each of the future road area anomalies investigated during the Phase 3 intrusive investigations. The road areas were broken into three sections, termed the North Road Area (**Figure 12**), East Road Area (**Figure 13**), and the South Road Area (**Figure 14**). The soil mound area is included on **Figure 14**. **Figure 15** displays the location and findings table for each of the septic tank area anomalies investigated during the Phase 3 investigations. **Appendix D** displays various photos of the Phase 3 work.

3.1.6 Phase 3 Construction Support

Parsons provided construction support during Phase 3 including leveling of linear mounded areas, examination of three soil piles, and surface sweeps of anticipated fenceline posthole locations.

3.1.6.1 Surface Leveling

CSSA requested that shallow linear mounded areas in the Phase 3 survey area be leveled to facilitate any future construction activities that may occur in this area. Seven linear mounded areas were leveled under UXO technician supervision by removing a foot of soil at a time off the top of each mound. Soil was moved to nearby depressions to level out the ground surface in the area. The seven linear mounds comprised approximately 1.5 acres in area. No UXO was found.

3.1.6.2 Soil Removals

During Phase 3 work activities, a CSSA subcontractor concurrently performing construction in the East Pasture discovered an ordnance item in a soil pile that was generated during construction activities. Work was immediately stopped until UXO technicians could inspect the item. Inspection revealed the item was inert, but the concern remained that additional ordnance items may be present in the soil piles. Due to this concern, UXO specialists supervised a systematic examination of each soil pile. The soils were removed at one foot layer increments until each soil pile had been completely examined. The soil piles were approximately 1,500 CY in volume. No UXO was found in the soil piles. Each soil pile was left in place after the sifting process was complete, with the understanding the soil would be moved at a later date. UXO technicians also performed surface sweeps at 123 anticipated fence posthole locations. No UXO was found.

3.1.7 Phase 4 UXO Investigation

UXO technicians performed a “mag-and-flag” ordnance survey and intrusive anomaly investigation at the grenade pit area. No dig sheet was completed for the anomalies picked within the confines of the future grenade pit. No UXO was found. The pit was dug to bedrock (approximately 1-2 feet bgs) to verify all metallic debris was removed. The area was later filled with sand by CSSA (**Figure 16**).

3.1.8 Phase 4 Construction Support

Construction support activities conducted during Phase 4, included tree clearance along the East Pasture main entrance road, construction of a firebreak, oversight of a controlled burn, tree pile inspection, leveling of mound areas behind the firing berm, and oversight of railroad track removal behind the firing berm. Surface sweeps of fenceline posthole locations were provided during Phase 4 at the same locations it was conducted during Phase 3.

3.1.8.1 Vegetation Removal

Trees were removed along the paved East Pasture main entrance road, with UXO Technician oversight. The objective was to remove trees in the immediate vicinity of the road to provide room to perform a geophysical survey. One piece of UXO (fuzed 3" Stokes mortar) and one piece of munitions debris (unfuzed 3" Stokes mortar) was discovered during this effort. Fort Sam Houston EOD responded the same day the UXO was found and performed a controlled detonation. Additionally, tree piles placed next to the East Pasture entrance road after the tree clearance were inspected to determine if UXO items were present in the piles. No UXO was observed. UXO Technicians also provided a surface sweep of the area where tree piles were consolidated for chipping.

3.1.8.2 Firebreak Construction

A firebreak was completed during Phase 4 in the area behind the East Pasture firing berm. The firebreak was completed in preparation for a subsequent controlled burn. UXO Technicians performed surface sweeps and provided stand-by support during construction of the firebreak. Approximately 9,000 feet of firebreak was completed, as displayed in **Figure 16**. Items recovered during the investigations included railroad spikes, wire, nails and some small projectile tail fins (munitions debris). No UXO was encountered.

3.1.8.3 Controlled Burn

A controlled burn was conducted during Phase 4 behind the East Pasture firing berm. The burn was performed to eliminate the vegetation around the berm, which assists locating items that overshoot the berm and to provide better working conditions for railroad track removal and soil leveling behind the firing berm. Items observed during the surface sweep included a rocket-propelled grenade and 75mm projectile munitions debris.

The United States Fish and Wildlife Services conducted the controlled burn with the support of a UXO technician in case UXO was encountered. The UXO technician observed three small arms detonations during the controlled burn. A surface sweep conducted after the burn identified additional rocket-propelled grenades and a 3" Stokes mortar, all of which were munitions debris.

3.1.8.4 Surface Leveling

After completing the controlled burn, mounded areas behind the range berm were graded and leveled, concurrent with the railroad track removal. The leveling was performed as a maintenance activity to make the area behind the berm easier to mow and maintain. Approximately 5,500-6,000 cubic feet of mounded material was leveled during this effort. Several identifiable munitions items were observed during this effort, including 75mm projectile, 40mm projectile, rocket-propelled grenade, and 3" Stokes mortar munitions debris. In all, approximately 200 pounds of munitions debris were discovered during leveling of the mound areas and the railroad track removal.

3.1.8.5 Railroad Track Removal

Unused railroad tracks present behind the East Pasture firing berm, previously used for moving target firing practice, had become disconnected and partially buried, making it difficult

and dangerous to perform mowing activities behind the berm. The rail was cut into manageable pieces and removed while a UXO technician on site and performed surface sweeps, as needed. Approximately 2,500 linear feet of track was removed and hauled to a local recycling facility.

3.1.9 Phase 5 UXO Investigation

This work included three geophysical surveys and intrusive investigations in several areas. Following 65 acres of geophysical surveys, approximately 26 acres of intrusive investigations were conducted. Geophysical surveys and intrusive investigations were conducted at an infirmary area (with buffer area), the East Pasture main entrance road, at a tunnel/trench area, and along the Outer Road.

Eighty-three anomalies were investigated in the infirmary area and infirmary area buffer zone, a 1.5-acre area. No UXO was found, but munitions debris was present at several anomaly locations. Many of the anomaly locations contained no anomaly when reacquired due to grading activities that had occurred in the area after the geophysical data was collected. One hundred twenty-two additional anomalies were investigated. No UXO was found, only munitions debris. Dig results for both areas are presented in **Table B.3**. Anomaly location and results maps are presented as **Figures 16 and 17**.

Two surveys of the paved East Pasture main entrance road were conducted. The first survey was unable to obtain the required area due to interference by tree piles located along the sides of the road. The second survey was then conducted to cover the additional area after removal of the tree piles. Combined, the surveys covered approximately 6 acres in area. Subsequent data processing identified 624 anomalies for investigation from this survey data and the intrusive investigations were completed. No UXO items were found, but munitions debris was present at many anomaly locations. Dig results are presented in Table 4. Anomaly location and results maps are presented as **Figures 18 and 19**.

Intrusive investigations of 414 anomalies at the tunnel/trench area were completed in a 5.7-acre area. No UXO was found, but munitions debris was present at several anomaly locations. Dig results are presented in Table 4. Anomaly location and results maps are presented as **Figures 20, 21, and 22**.

An additional geophysical survey was conducted during Phase 5 along CSSA's Outer Road, just outside the western boundary of the East Pasture. A small area just inside the western fenceline of the East Pasture was also surveyed during this effort. Approximately 5 acres were surveyed and 102 anomalies were selected for investigation. The intrusive investigations of 102 anomalies were completed along Outer Road in a 1.5-acre area near Gate 7. No UXO items were found, and only one piece of munitions debris was found. Dig results are presented in Table 4. An anomaly location and results map is presented as **Figure 23**.

Twenty-one anomalies were investigated by a "mag-and-flag" survey and removed during the vegetation removal efforts. No UXO was found.

3.1.10 Phase 5 Construction Support

Construction support items were also completed during Phase 5, including tree pile inspection and brush clearing. A videotaped ordnance recognition training session was also completed.

3.1.10.1 Vegetation Removal

Tree piles were inspected by UXO Technicians during construction support. One large pile was inspected that consisted of trees too large to be chipped with CSSA's chipping machine after the Phase 4 staging. A small amount of munitions debris and other scrap metal was removed from the pile. After the pile was inspected, a UXO Technician swept an area near the East Pasture's western fenceline so that the pile could be moved there and be burned at a later date. A brush pile located near a gully area was also inspected by a UXO Technician. This pile was inspected and no ordnance items were encountered.

Vegetation removal was also conducted in the tunnel/drainage area. Large brush clumps were uprooted and removed from the area to allow easy access to these areas. In addition, several concrete pillars that served as historical firing targets were knocked down and staged for removal from the East Pasture. One piece of munitions debris was identified during these efforts. No UXO was found.

3.1.10.2 Ordnance Recognition Training Session

A UXO specialist conducted a videotaped ordnance training session as part of construction support. The training session lasted one hour and included CSSA personnel and CSSA subcontractor personnel. The training was videotaped so that CSSA can have a training video to present to new subcontractors that are unfamiliar with ordnance hazards that may exist at the base.

3.1.11 Phase 6 UXO Investigation

Phase 6 geophysical surveys and intrusive investigations included a parking area adjacent to Building 709 and an expansion to the intrusive investigations conducted in the tunnel/trench area during Phase 5. "Mag-and-flag" intrusive investigations were also conducted along an embankment just west of Building 709.

Intrusive investigations at the Building 709 parking area were completed on September 6, 2006. One hundred twenty-three anomalies were investigated in this 0.6-acre area. No UXO was found, but munitions debris was present at several anomaly locations. Dig results are present in **Table B.4**. An anomaly location and results map is presented as **Figure 24**.

In addition to the investigations conducted in Phase 5, additional intrusive investigations at the tunnel/trench area were completed on September 7, 2006. Two hundred seventy-eight anomalies were investigated. Two UXO items were found (two 81mm mortars), in addition to many pieces of munitions debris. Dig results are presented in Table 4. Anomaly location and results maps are presented as **Figure 25**.

"Mag-and-flag" intrusive investigations were also conducted along an embankment just west of Building 709. These investigations identified eight UXO items, including seven Stokes mortars and one rifle grenade, which were disposed of by Fort Sam Houston's EOD. Munitions debris was also found.

3.1.12 Phase 6 Construction Support

No construction support activities were conducted during Phase 6.

SECTION 4

CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

The East Pasture has been an active range area for over 50 years. During construction activities in early 2005, loose WP and a Stokes mortar were encountered by construction personnel. UXO investigations and construction support documented in this report were conducted to reduce the risk related to additional construction planned in the East Pasture.

During six phases of UXO investigations completed between April 2005 and January 2007, geophysical surveys of 65 acres were accomplished. Intrusive anomaly investigation was implemented for 26 of the 65 surveyed acres. In all, 2,730 anomalies were reacquired and investigated within the East Pasture (not including anomalies investigated during “mag-and-flag” intrusive investigations). In addition, construction support was provided for maintenance and preparatory activities in the East Pasture. These activities included brush clearance, tree clearance, tree pile inspection, mound leveling, railroad track removal, fenceline posthole inspection, completion of a firebreak, and oversight of a controlled burn. A videotaped ordnance training session was also conducted.

Thirteen UXO items were encountered during the intrusive investigations and support activities. A large amount of munitions debris was also encountered. All munitions debris and other recyclable metal items recovered during the intrusive investigations and support activities were recycled. Other trash and non-metal items were discarded.

The UXO investigations and construction support activities completed in the East Pasture were performed to reduce the risk of encountering UXO during planned construction and maintenance activities in the area, specifically those activities that require breaking ground. Munitions may have been used for training historically in the East Pasture and the potential remains for UXO to exist near or within the investigated areas. The East Pasture contains a currently active range where various munitions are fired. Some range activities are performed within enclosed firing ranges and pose little threat to contaminating the East Pasture area with UXO or munitions debris items. Other range activities, however, are conducted outside enclosed ranges and may deposit ordnance items in the East Pasture area, even within those areas that anomaly identification and intrusive investigation has already been completed.

For these reasons, CSSA should consider the probability of encountering UXO during future construction or maintenance activities and evaluate the need for UXO technician standby support. It should be understood that investigation and removal of subsurface anomalies only provides a reduced risk for encountering ordnance during construction activities, and, although these measures provide a substantial reduction in risk, they do not completely eliminate the risk.

4.2 RECOMMENDATIONS

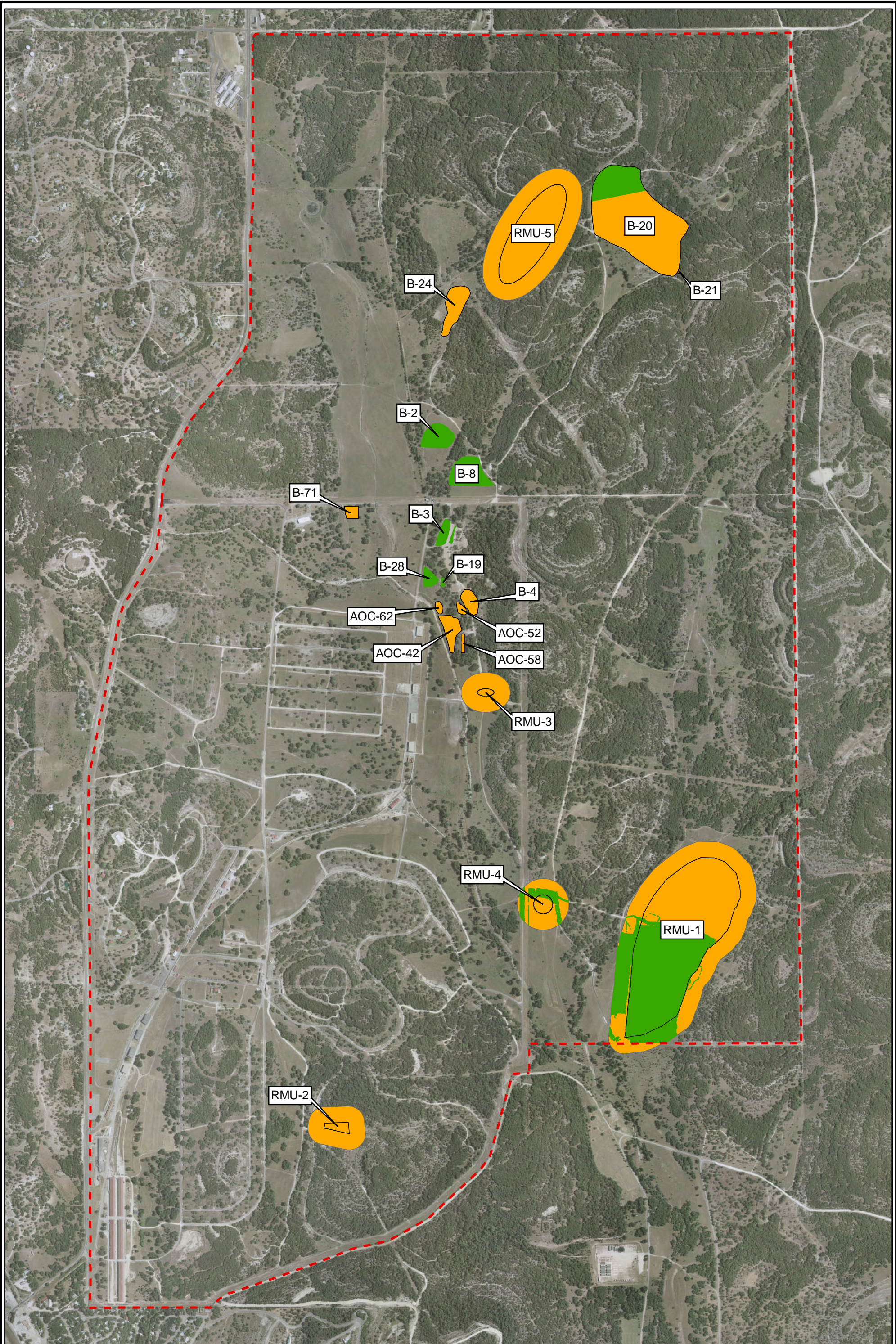
The UXO investigation conducted reduced the risk in the investigated areas from high to low risk. Parsons recommends that any personnel involved with subsurface work in low risk

areas first be provided UXO recognition training with the videotaped session prepared. In addition, Parsons recommends UXO construction standby support in low risk areas. In accordance with EP 75-1-2, Chapter 6, paragraph 6-1, (3) “the level of effort for construction support is site/task-specific and will be determined on a case-by-case basis....” Specifically, when a determination is made that the probability of encountering UXO on a construction site is moderate to high (i.e., a subsurface removal of the known construction footprint will be conducted), an OE Safety Specialist will be on-site to provide safety oversight. When a determination is made that the probability of encountering UXO on a construction site is low (i.e., only UXO standby support is required), an OE Safety Specialist is generally not required on-site. For those areas categorized as low risk, only standby support is required. EP 75-1-2, paragraph 6-6 defines standby support as on-site support. However, since CSSA receives on call stand-by EOD support from Fort Sam Houston for any potential UXO findings. CSSA should consider on-site stand-by construction support for projects during which there is a potential for the sub-surface work to extend beyond the investigated areas or the area is categorized as moderate to high risk (**Figure 26**).

UXO construction support for moderate/high risk areas is recommended for the following reasons:

- The range is currently active;
- No detailed records are available regarding areas used for training and the types of munitions used in these areas; and
- Not all of the identified anomalies were investigated.

This approach was agreed to at a meeting on October 5, 2006. The meeting summary is included in **Appendix E**. A map depicting known low risk and moderate/high risk areas across the facility is included as **Figure 26**.



- - - Outer fence
- Moderate - High Risk
- Low Risk

Figure 26

Ordnance Risk Map
Camp Stanley Storage Activity

Parsons

APPENDIX A
PHASE 1 PHOTO DOCUMENTATION

Geophysical Survey Towed-Array Setup



Phase I Survey Setup

Building 706 Long-Range Photo Documentation



Anomaly ID LR-013 (Old utility line)



Anomaly ID LR-034 (Buried wire and concrete)



Anomaly ID LR-035 (2.5-inch fence post with concrete)



Anomaly ID LR-038 (small arms burn pit)



Anomaly ID LR-041 (Rifle rock)



Anomaly ID LR-043 (Old utility line)



Anomaly ID LR-060 (Old utility line)



Anomaly ID LR-063 (Old utility line)



Anomaly ID LR-066 (Old utility line)



Anomaly ID LR-067 (4' x 4' concrete slab)



Anomaly ID LR-071 (Expended 37mm APHE round)



Anomaly ID LR-071 (Expended 37mm APHE round)



Anomaly ID LR-089 (Expended 60mm illumination round, M49 HE mortar)



Anomaly ID LR-091 (Expended 37mm APHE round)



Anomaly ID LR-091 (Expended 37mm APHE round)



Anomaly ID LR-095 (Gas cylinder)



Anomaly ID LR-095 (Gas cylinder)



Anomaly ID LR-100 (Old utility line)



Anomaly ID LR-106 (Expended 37mm APHE round)



Anomaly ID LR-106 (Expended 37mm APHE round)

Test Facility (Bldg 709) Photo Documentation:



Anomaly ID TF-005 (Sheet of tin, roofing material)

Additional Miscellaneous Photos



Recovered OE Scrap



Fence Post



Utility Line

APPENDIX B
EAST PASTURE UXO INVESTIGATION DIG RESULTS

Table B.1
East Pasture UXO Investigation Phase 1 Dig Results

Anomaly ID	Northing	Easting	mV	Description	Depth
Test-001	3284288.5	538215.9	34.6	4.2" Stokes mortar	24
Test-002	3284293.7	538215.6	46.2	75mm projectile	24
Test-003	3284299.6	538215.7	37.7	3" Stokes mortar	12
Test-004	3284304.8	538216	15.3	MKII grenade	6
LR-001	3284312.1	538225.4	27.2	Munitions debris	2
LR-002	3284313	538217.7	499.8	6"x 6" steel plate	2
LR-003	3284312.8	538206.8	316.3	12"x 12" metal sign	6
LR-004	3284504.9	538250.6	12.6	Munitions debris	3
LR-005	3284317.3	538233.9	13.5	No contact	0
LR-006	3284321.7	538233.1	369	Fence post with concrete	12
LR-007	3284498.5	538258.6	12.3	18" steel wire	4
LR-008	3284324.1	538201.9	63	2.5' fence post with concrete	12
LR-009	3284324.9	538220.1	22.6	Sheet steel	12
LR-010	3284337.5	538196.8	21.7	6"x 6" steel plate	2
LR-011	3284336.7	538203.2	34.2	Power line anchors	48
LR-012	3284342	538195.4	30.6	3' steel rod	2
LR-013	3284341	538207.7	56.1	Old utility line	10
LR-014	3284335.7	538225.6	39.1	Steel pipe caps	3
LR-015	3284338.5	538227.7	68.5	Horse shoe	0
LR-016	3284343.6	538214.3	20.8	Munitions debris	3
LR-017	3284341.1	538246.6	16.7	Munitions debris	0
LR-018	3284347	538226.4	127.3	Fence post with concrete	4
LR-019	3284355.8	538211.6	45.8	Sheet metal	8
LR-020	3284354.4	538201.5	20.1	3' steel rod	6
LR-021	3284359.5	538206.2	30.2	2' steel rod	2
LR-022	3284362.4	538207.2	215	Fence post with concrete	2
LR-023	3284363.4	538204.2	30.7	Sheet metal, horse shoe	6
LR-024	3284345.9	538247.9	19.2	Munitions debris	3
LR-025	3284359.1	538250.1	38.5	Munitions debris	4
LR-026	3284377.3	538249.1	35.9	3' steel rod	2
LR-027	3284381.6	538247.7	39.5	Expended 60mm illumination round	6
LR-028	3284375.4	538245.3	19.3	1' steel rod	2
LR-029	3284376.8	538242.3	28.5	Expended 60mm illumination round	4
LR-030	3284375.4	538236.1	90.1	3' steel rod	5
LR-031	3284377.2	538231	58.2	Munitions debris, 2.5' fence post with concrete	2
LR-032	3284376.9	538226.1	17.8	Steel pipe caps, metal J hook, 6"x 6" steel plate	24
LR-033	3284380	538219.8	113.8	3' steel rod	2
LR-034	3284376.5	538206.3	16.4	Buried wire and concrete	2
LR-035	3284381.8	538207.9	318.9	2.5" fence post with concrete	3
LR-036	3284381.3	538195.6	57.3	Old utility line	2
LR-037	3284388.1	538201.2	245.9	2.5" fence post with concrete	12
LR-038	3284391.4	538205	62.1	Small arms burn pit	0
LR-039	3284390.8	538209	247	0.45 caliber ball round	48
LR-040	3284385.6	538229.1	21.8	3' steel rod	3
LR-041	3284389	538232.8	16.9	Rifle rock	4
LR-042	3284396.5	538231.2	203	2.5' fence post with concrete	8
LR-043	3284400.5	538211.1	66.8	Old utility line	6
LR-044	3284403.8	538215.3	48.4	Munitions debris	5
LR-045	3284408.5	538212.6	66.8	Sheet steel	3
LR-046	3284399.1	538239.7	32	Pipe fitting	18
LR-047	3284405.3	538234	38.5	Munitions debris	5
LR-048	3284409.6	538238.9	45.7	3' steel rod	4
LR-049	3284407.2	538248.4	19.2	Munitions debris	4
LR-050	3284410.9	538253.7	21.9	1' steel rod	6
LR-051	3284413.8	538252.3	22.3	6"x 6" steel plate	0
LR-052	3284412.1	538240.4	68.7	6"x 6" steel plate	3
LR-053	3284416.1	538242.5	23	Expended 60mm illumination round	4
LR-054	3284414.4	538256.4	26.1	Nail	4
LR-055	3284414.5	538236.2	14.7	Horse shoe	3
LR-056	3284414.4	538230.1	68.7	3"x 5" metal plate	4
LR-057	3284419.1	538227.4	36.4	Munitions debris	3
LR-058	3284431.6	538208.6	53.7	2' steel rod	3
LR-059	3284431	538226.9	16.9	18" steel wire	6
LR-060	3284428.1	538237.4	569.1	Old utility line	4
LR-061	3284425.9	538233	16.4	4"x 2" aluminum junction box	4
LR-062	3284424.3	538249.7	441.9	Old utility line	4
LR-063	3284421.9	538256.2	808.2	Old utility line	12
LR-064	3284428.1	538253.1	49	Expended 60mm illumination round	0
LR-065	3284432.4	538258.1	23.5	Horse shoe	4
LR-066	3284432.7	538247.3	94.9	Old utility line	3
LR-067	3284435.8	538235.5	238.9	4'x 4' concrete slab	36
LR-068	3284437	538231.5	21.2	Munitions debris	0
LR-069	3284440.8	538238.6	21.9	No contact	0
LR-070	3284449.3	538215.2	21.4	Munitions debris	2
LR-071	3284454.6	538207.2	18.1	Expended 37mm APHE round	6
LR-072	3284455.1	538216.6	14.7	Munitions debris	2
LR-073	3284453.3	538241.7	42.7	Munitions debris	3
LR-074	3284455.6	538238.6	22.9	Munitions debris	3
LR-075	3284457.6	538254.1	21.9	Munitions debris	8
LR-076	3284460.3	538252.7	116.6	6" steel bar	0
LR-077	3284464.1	538250.2	54.5	3"x 3" aluminum cap	0
LR-078	3284474.6	538210	27.5	2' steel rod	1
LR-079	3284476.8	538219.2	28.1	18" steel wire	3
LR-080	3284477.8	538224.5	33.3	Munitions debris	3
LR-081	3284477.1	538243.7	27	Munitions debris	3

**Table B.1
East Pasture UXO Investigation Phase 1 Dig Results**

Anomaly ID	Northing	Easting	mV	Description	Depth
LR-082	3284478.7	538258.2	43.1	Munitions debris	8
LR-083	3284484.5	538250	38.7	8" steel plate	2
LR-084	3284487.5	538230.7	61.4	Munitions debris	1
LR-085	3284495.3	538244.7	34.6	18" steel wire	12
LR-086	3284497.1	538252.9	29.4	Munitions debris	3
LR-087	3284484.2	538259.3	21	Expended 60mm illumination round	3
LR-088	3284493.4	538264.2	61.4	Munitions debris	3
LR-089	3284511.5	538213.5	52.5	Expended 60mm illumination round, M49 HE mortar	2
LR-090	3284508.7	538266.5	68.9	2' steel rod	6
LR-091	3284511.7	538262.9	44.6	Expended 37mm APHE round	6
LR-092	3284521.7	538258.5	105.5	No contact	0
LR-093	3284532.8	538254.9	38.5	Horse shoe	1
LR-094	3284532	538217.9	122	Munitions debris	3
LR-095	3284539	538255.6	475.1	18" steel wire, 24"x 5" cylinder	3
LR-096	3284543.5	538255.1	300.8	2' steel rod	0
LR-097	3284545.8	538217.4	58.2	Munitions debris	4
LR-098	3284552.8	538218.3	82.4	Munitions debris, 18" steel wire	3
LR-099	3284556.2	538219.4	78.1	2' steel rod	3
LR-100	3284556	538222.3	14	Old utility line	3
LR-101	3284559.6	538217.1	17.9	Munitions debris	0
LR-102	3284565.1	538225.7	52.9	Munitions debris	3
LR-103	3284558.1	538249.2	26.1	6' steel wire	48
LR-104	3284564.8	538248.4	24.5	4"x 4" molten slag	24
LR-105	3284511.6	538234.4	16.4	Munitions debris	3
LR-106	3284498.3	538234.2	8.4	Expended 37mm APHE round	1
LR-107	3284400.5	538229.3	16.5	Expended 60mm illumination round	5
LR-108	3284388.3	538251.8	14.5	Expended 60mm illumination round	6
LR-109	3284420.1	538210.2	11.9	3' steel rod	4
LR-110	3284453.3	538257	13.7	18" steel wire	4
LR-111	3284467.8	538233.9	13.1	Munitions debris	6
LR-112	3284348.9	538220.8	16.1	Munitions debris	3
LR-113	3284546	538260.4	19.4	Horse shoe	4
LR-114	3284524.2	538244	14	Munitions debris	4
LR-115	3284421.2	538237.9	15.8	3' steel rod	4
LR-116	3284423.7	538229.5	14	3' steel rod	0
LR-117	3284394	538228.8	15.6	Railroad spikes, ammo can lid	4
LR-118	3284358.4	538203.5	20.7	Old utility line	18
LR-119	3284320	538212.7	14.1	Munitions debris	24
LR-120	3284321.5	538217.3	24.6	Munitions debris	24
LR-121	3284438.9	538207.1	1211.2	Old utility line	4
SH-001	3284325.8	538273.8	30.2	Strapping material	6
SH-002	3284325.8	538283.9	19.3	Pipe fitting	4
SH-003	3284327.3	538286.1	50.9	Munitions debris	3
SH-004	3284335.8	538281.5	48.9	18" rebar	4
SH-005	3284336.2	538275.3	24.3	Munitions debris	1
SH-006	3284338.6	538272.3	188.2	3' steel rod	0
SH-007	3284347.1	538269	23.1	Munitions debris	2
SH-008	3284341	538284.9	18.1	Expended 60mm illumination round	6
SH-009	3284336.5	538294.9	23.9	Munitions debris	4
SH-010	3284358.8	538289.3	32	Munitions debris	3
SH-011	3284354.7	538285.5	15.6	7.62mm ball ammunition	2
SH-012	3284369.4	538271.7	13.3	Munitions debris	2
SH-013	3284366.8	538290.1	18.4	20mm TP round	6
SH-014	3284343.2	538311.2	24.1	Munitions debris	3
SH-015	3284365.8	538319.2	22.8	20mm TP, 7.62mm ball ammunition	1
SH-016	3284380.6	538313.3	42.3	Munitions debris	4
SH-017	3284380.6	538319.9	38.8	Expended 60mm illumination round	2
SH-018	3284371.4	538324	25	Expended 60mm illumination round	4
SH-019	3284364.8	538306.7	16.9	Munitions debris	3
SH-020	3284333.4	538319.2	13.5	Munitions debris	2
SH-021	3284353.7	538278.1	10.9	Nail	2
SH-022	3284350.2	538308.4	9.6	Munitions debris	3
SH-023	3284365.9	538280.3	14.6	20mm TP round	3
SH-024	3284327.6	538314.1	16.7	Munitions debris	4
SH-025	3284327.6	538314.1	16.7	Munitions debris	3
SH-026	3284327.7	538303.3	13.5	Metal J hook	3
SH-027	3284369	538297.2	15.8	Horse shoe	3
TF-001	3284554.8	538416.9	29.6	Munitions debris	4
TF-002	3284557.6	538420.1	18.9	1' steel rod	4
TF-003	3284561.6	538420.2	70.4	Munitions debris	4
TF-004	3284568.2	538435.4	57.1	Sheet of tin, roofing material	48
TF-005	3284569.3	538440.8	656.5	Sheet of tin, roofing material	48
TF-006	3284581.4	538449.2	25.9	Munitions debris	4
TF-007	3284569.4	538457.3	22.4	Expended 60mm illumination round	3
TF-008	3284563.9	538461.4	43.5	Munitions debris	4
TF-009	3284549.8	538476	45.2	3' metal strap	3
TF-010	3284551.2	538471	26.5	Munitions debris	4
TF-011	3284551.6	538468.4	29.9	Munitions debris	4
TF-012	3284558.2	538456.8	25.1	Trash pit, cans	48
TF-013	3284557.9	538452.6	16.7	Munitions debris	3
TF-014	3284560	538449.2	39.5	Metal pin flag	0
TF-015	3284561.6	538441.1	21.8	Horse shoe	1
TF-016	3284556.9	538428.7	71.8	3"x 5" metal plate	4
TF-017	3284554	538427.3	24.2	Munitions debris	4
TF-018	3284548.4	538425.4	23	8" steel rod	4
TF-019	3284544.1	538423.5	19	Munitions debris	4

**Table B.1
East Pasture UXO Investigation Phase 1 Dig Results**

Anomaly ID	Northing	Easting	mV	Description	Depth
TF-020	3284542.4	538425.9	13.7	Munitions debris	3
TF-021	3284544.3	538433.9	341.2	Tractor U-joint	4
TF-022	3284547.6	538445.7	27.3	Horse shoe	3
TF-023	3284543.8	538461.9	24.4	Munitions debris	2
TF-024	3284542	538465.3	56.1	2' steel rod	4
TF-025	3284537	538456.6	21.6	3" steel dish	3
TF-026	3284539.1	538453	74.9	Munitions debris	3
TF-027	3284537.3	538445.7	27.8	18" steel wire	3
TF-028	3284531.4	538451.6	75.4	Nail bed	3
TF-029	3284530.3	538445.9	41.4	Nail	2
TF-030	3284535.4	538442	17.5	Munitions debris	4
TF-031	3284568.1	538424.8	22	Munitions debris	4
TF-032	3284550.3	538451.7	14.1	Munitions debris	3
TF-033	3284525.9	538450.6	19.9	Door hinge	3
TF-034	3284566	538445.5	14	Metal pin flag	0
TF-035	3284537	538461.3	15.6	Grenade cones	6
TF-036	3284558.1	538442.6	15.8	Munitions debris	3
TF-037	3284545.3	538440.6	15.3	Munitions debris	3
TF-038	3284567.2	538429.5	19.5	Munitions debris	4
TF-039	3284564.4	538443.2	21.8	No contact	0
TF-040	3284558.8	538463.6	15.9	Munitions debris	3
TF-041	3284560.7	538457.3	16.2	Trash pit, cans	48
TF-042	3284551.6	538465.7	15.8	Nails	3
TF-043	3284529.1	538435.9	18.9	Munitions debris	4
TF-044	3284552.1	538421.5	13.5	Munitions debris	4

TP=target practice
 APHE=armor piercing high explosive
 HE=high explosive
 LR=long range (Bldg 706)
 SH=shoot house (Bldg 707)
 TF=test facility (Bldg 709)

Table B.2
East Pasture UXO Investigation Phase 3 Dig Results

Anomaly ID	Northing	Easting	mV	Description	Depth
NR-001	3284635.6	538216	7.4 R	2" munitions debris	4
NR-002	3284632.4	538217.1	80.2 R	3" munitions debris	6
NR-003	3284620.5	538218.5	11.5 R	6" munitions debris	6
NR-004	3284627	538219.9	10.1 R	5" munitions debris	7
NR-005	3284630.6	538222.2	10.3 R	6" munitions debris	2
NR-006	3284617.3	538227.9	3.8 R	6" munitions debris, grenade spoon, 3' diameter metal disk	4
NR-007	3284621	538227.9	9.7 R	grenade spoon	1
NR-008	3284614.1	538228.6	5.2 R	2" munitions debris	1
NR-009	3284629.2	538229.1	4.3 R	1" munitions debris	0
NR-010	3284627.8	538229.2	1.9 R	2 grenade spoons, 1" munitions debris	2
NR-011	3284622	538230.6	94.9 R	18 pieces munitions debris, 3 grenade spoons, 1 capacitor	7
NR-012	3284625	538230.6	19.8 R	7" munitions debris	7
NR-013	3284630.6	538230.7	18.0 R	25mm cartridge case, 12 pieces munitions debris	10
NR-014	3284615.3	538231.4	31.2 R	horseshoe, 3 pieces munitions debris, 1 308 caliber casing	8
NR-015	3284627.3	538232	4.2 R	stokes nose section, 2 grenade spoons	6
NR-016	3284625.7	538233	16.9 R	2 pieces 5" munitions debris	4
NR-017	3284622.6	538233.2	7.8 R	6" munitions debris, 1 grenade spoon	4
NR-018	3284618.4	538234.1	53.0 R	6" plate	2
NR-019	3284613.4	538234.3	15.0 R	1" munitions debris, grenade spoon	0
NR-020	3284627.1	538234.4	8.4 R	WP grenade top, grenade spoon	1, 3
NR-021	3284623.7	538234.6	5.0 R	magnet	2
NR-022	3284618.7	538234.9	27.6 R	1" munitions debris, 2 pieces 7" munitions debris	4
NR-023	3284617.1	538236.4	10.4 R	wire	0
NR-024	3284622.3	538236.5	7.4 R	2" munitions debris	4
NR-025	3284619.5	538237.2	7.3 R	grenade top, 4" munitions debris (WP)	0
NR-026	3284625.9	538238.8	11.2 R	4" grenade munitions debris	2
NR-027	3284614.7	538239.3	12.7 R	4" 60mm mortar munitions debris	1
NR-028	3284609.4	538240.7	35.9 R	2" munitions debris	1
NR-029	3284624.3	538241.2	11.1 R	2 pieces 2" munitions debris	1
NR-030	3284626.5	538241.2	18.7 R	7" munitions debris, 2" munitions debris	4
NR-031	3284620.1	538241.6	41.7 R	magnet, 6" munitions debris	2, 5
NR-032	3284611.9	538242.6	13.7 R	nail	2
NR-033	3284609.5	538242.8	22.7 R	2" munitions debris	3
NR-034	3284616.6	538243.3	158.0 R	10" munitions debris	6
NR-035	3284609.4	538243.9	7.7 R	6" munitions debris	3
NR-036	3284614.5	538244.5	6.7 R	magnet	2
NR-037	3284625.1	538244.6	9.5 R	3" wire	2
NR-038	3284621.4	538244.9	4.3 R	2"x2" munitions debris	6
NR-039	3284610.8	538245.9	11.4 R	2" munitions debris	5
NR-040	3284616.2	538246.9	6.0 R	magnet	3
NR-041	3284623	538249.7	20.1 R	18" bailing wire	0
NR-042	3284612.3	538250.7	12.3 R	grenade spoon	3
NR-043	3284618.5	538251.2	18.4 R	1"x2" munitions debris	3
NR-044	3284617	538251.9	9.8 R	ammo can clasp, 4" munitions debris	3, 6
NR-045	3284610.8	538253.1	21.3 R	1" munitions debris	4
NR-046	3284616.8	538254.9	5.5 R	2"x3" munitions debris, pieces of magnet	3-6
NR-047	3284613.5	538255.6	24.6 R	6" munitions debris	4
NR-048	3284608.5	538257.6	29.1 R	wire, grenade spoon, 8"x10" scrap	2
NR-049	3284617.6	538257.6	39.9 R	2 pieces 8" munitions debris	3
NR-050	3284602.1	538258.1	22.4 R	8" munitions debris	7
NR-051	3284605.1	538259.7	19.8 R	grenade spoon, wire	2, 9
NR-052	3284615.2	538259.8	12.1 R	4 pieces 2"x2" WP grenade munitions debris	8
NR-053	3284604.9	538261.5	9.6 R	5 grenade spoons, 1 piece munitions debris	2-6
NR-054	3284600	538266.7	77.0 R	8 grenade spoons, conduit 14" deep	0-8
NR-055	3284604.4	538271.2	37.3 R	3 grenade spoons, 6" metal disk	8
NR-056	3284599.9	538275.1	43.9 R	2 grenade spoons, buried conduit	2, 14
NR-057	3284604.8	538275.2	28.4 R	2 pieces wire, 1 grenade spoon	2, 6
NR-058	3284599.6	538278.1	34.8 R	8" conduit	2
NR-059	3284591.4	538282.6	44.2 R	grounding rod	9
NR-060	3284601.1	538282.7	8.4 R	cable	2
NR-061	3284595.8	538283.4	9.8 R	asphalt	2
NR-062	3284598.2	538286.5	23.7 R	asphalt	0
NR-063	3284592.7	538288.5	13.3 R	asphalt, grenade spoon	1
NR-064	3284599.3	538288.9	17.9 R	4"x4" plate	3
NR-065	3284604.4	538289.2	16.3 R	3/4" conduit	16
NR-066	3284606.4	538290.7	10.5 R	3 nails	4-6
NR-067	3284598.4	538290.9	29.0 R	metal rust flakes	2-3
NR-068	3284605.3	538291.1	11.7 R	metal ring (stokes munitions debris)	6
NR-069	3284603.5	538291.4	38.0 R	corrugated sheet metal, grenade spoon	12
NR-070	3284607.4	538291.4	10.1 R	magnet munitions debris	4
NR-071	3284595.5	538292.5	20.2 R	6" munitions debris	4
NR-072	3284601.7	538292.7	8.1 R	corrugated sheet metal conduit	24
NR-073	3284605.1	538293.4	7.6 R	magnet	6
NR-074	3284599.5	538294.9	16.2 R	corrugated steel conduit	24
NR-075	3284604.6	538294.9	8.9 R	1.5" piece of WP burster tube, grenade spoon	6
NR-076	3284597.2	538296.9	201.2 R	4 steel pieces 4"x4" plate, expended rifle grenade	3, 9
NR-077	3284588.8	538297	23.8 R	2 grenade spoons, nails	6
NR-078	3284593.7	538298.4	11.9 R	rusty munitions debris chunks	10
NR-079	3284591.3	538299.8	5.5 R	1 grenade spoon	8
NR-080	3284599.1	538300.6	16.1 R	corrugated metal conduit	14
NR-081	3284593.7	538300.8	19.9 R	nails and magnet pieces	10
NR-082	3284584.2	538301.2	10.7 R	3" munitions debris	6
NR-083	3284598.5	538302.3	11.2 R	corrugated metal	18
NR-084	3284594.4	538302.4	12.2 R	magnet, conduit	8
NR-085	3284590.8	538303.1	32.9 R	magnet chunks	3
NR-086	3284601.4	538303.5	15.4 R	2 pieces 6" munitions debris	6

**Table B.2
East Pasture UXO Investigation Phase 3 Dig Results**

Anomaly ID	Northing	Easting	mV	Description	Depth
NR-087	3284595.8	538303.7	25.5 R	2 4"x4" plates, wire	8
NR-088	3284584.9	538304.8	13.9 R	2" munitions debris	4
NR-089	3284601.9	538305.6	35.8 R	8" rod, 2"x12" plate	6, 8
NR-090	3284587.8	538306.4	13.1 R	4" munitions debris	6
NR-091	3284593.4	538307.5	5.0 R	grenade spoon, magnets	6
NR-092	3284580.2	538308.9	15.4 R	30 cal, chunks of munitions debris, wire	6-8
NR-093	3284589	538308.9	285.9 R	rust flakes, magnets	3
NR-094	3284590.3	538311	13.0 R	magnets	4
NR-095	3284598.8	538311.7	14.0 R	3" munitions debris	8
NR-096	3284584.2	538313.1	6.4 R	magnets	6
NR-097	3284586.8	538314.4	41.3 R	12" munitions debris, 4"x8" munitions debris, 9" munitions debris	4
NR-098	3284594.4	538315.7	68.1 R	munitions debris, conduit	12, 17
NR-099	3284582.8	538318.9	18.5 R	barbed wire	3
NR-100	3284596	538318.9	658.1 R	pipe cap	2
NR-101	3284585.5	538319.3	125.7 R	10" munitions debris	6
NR-102	3284581.6	538321.3	10.4 R	barbed wire	8
NR-103	3284592	538322	347.4 R	stripper clip, grenade spoon, 4" munitions debris	4
NR-104	3284584.7	538322.4	31.6 R	3 nails	2
NR-105	3284579.6	538322.5	39.2 R	nail	2
NR-106	3284575.4	538322.6	20.3 R	wire	3
NR-107	3284590.4	538322.7	41.8 R	6" pipe (left in place)	8
NR-108	3284580.7	538325.2	11.6 R	1"x4" bolt	2
NR-109	3284576.1	538326.4	12.3 R	12" munitions debris	3
NR-110	3284591.9	538327.8	15.0 R	magnet	4
NR-111	3284588.6	538329	21.8 R	wire	6, 9
NR-112	3284583	538331	6.2 R	6"x6" munitions debris	10
NR-113	3284573.2	538332	53.7 R	8" munitions debris, 2" munitions debris	6, 8
NR-114	3284576.5	538334.1	5.8 R	4" munitions debris, 6" munitions debris	5, 10
NR-115	3284586.8	538334.4	8.1 R	conduit/wire	24
NR-116	3284576.5	538337	13.6 R	pipe and concrete (left in place)	48
NR-117	3284586.2	538338.1	709.1 R	6" pipe with conduit and cap	2
NR-118	3284569.7	538338.7	6.3 R	4"x6" munitions debris	10
NR-119	3284583.2	538340.4	8.9 R	4"x6" munitions debris	8
NR-120	3284580.5	538340.7	9.8 R	3"x5" munitions debris	7
NR-121	3284576.9	538341.9	6.1 R	pipe and concrete (left in place)	48
NR-122	3284579.3	538342	9.4 R	munitions debris	5
NR-123	3284574.8	538343	14.3 R	magnets, 4"x8" munitions debris	6, 10
NR-124	3284568.1	538345.4	12.8 R	8" munitions debris, 6"x8" munitions debris	4, 10
NR-125	3284586.6	538345.4	20.2 R	4" munitions debris	10
NR-126	3284583.2	538346.6	288.9 R	6" pipe with conduit	3
NR-127	3284584.9	538346.6	13.0 R	horseshoe, cable, conduit	8, 18
NR-128	3284571.1	538348	8.5 R	rifle bolt, wire	6, 11
NR-129	3284577.2	538348.1	21.7 R	37mm munitions debris, 4"x4" munitions debris	3, 9
NR-130	3284573.7	538348.3	15.6 R	1" munitions debris	2
NR-131	3284567.3	538350.2	36.5 R	magnet, stripper clip and magnet	4, 6
NR-132	3284572.2	538351.2	12.0 R	nails, stripper clips	4
NR-133	3284564.6	538352	6.4 R	magnet	6
NR-134	3284570.4	538352.9	15.5 R	magnets, 1" munitions debris, 6"x8" munitions debris	2, 6, 6
NR-135	3284581	538353.2	325.8 R	6" pipe w/ conduit	2
NR-136	3284563.1	538355.3	8.3 R	4" munitions debris, 6" munitions debris	6, 8
NR-137	3284574.7	538356.3	19.2 R	8" munitions debris	6
NR-138	3284563.2	538358.6	4.6 R	10"munitions debris	8
NR-139	3284570.5	538359.2	10.6 R	2" 81mm tail boom munitions debris, magnet, 8" munitions debris	2, 4, 8
NR-140	3284572.9	538361.4	17.9 R	37mm munitions debris	6
NR-141	3284571.7	538362.4	26.9 R	10" munitions debris	4
NR-142	3284577.2	538363.2	34140.9 R	3"x3" cover w/ hole underneath, 37mm munitions debris	8
NR-143	3284567.4	538364.7	14.5 R	10" munitions debris	6
NR-144	3284560	538364.9	10.1 R	8" munitions debris	5
NR-145	3284576.2	538366.5	309.6 R	6" pipe with conduit	2
NR-146	3284569.4	538366.6	11.1 R	10" munitions debris	4
NR-147	3284563.8	538366.8	10.7 R	10" munitions debris	6
NR-148	3284561	538367.2	13.5 R	magnet	3
NR-149	3284565	538367.8	9.9 R	8" munitions debris	3
NR-150	3284573.5	538370.4	14.9 R	nails	2-8
NR-151	3284558.7	538370.5	20.8 R	37mm munitions debris, 6"x10" munitions debris	4, 8
NR-152	3284568	538370.8	12.6 R	wire	2
NR-153	3284567.6	538372.4	16.5 R	munitions debris	4
NR-154	3284574.5	538372.5	659.3 R	6" pipe with conduit and cap	0
NR-155	3284569.9	538372.9	4.6 R	wire	3
NR-156	3284562.1	538373.6	11.4 R	nail, 2" munitions debris	2, 4
NR-157	3284564.3	538374	14.4 R	8" munitions debris	6
NR-158	3284559.9	538375	15.1 R	magnet	3
NR-159	3284564.9	538375.5	10.9 R	10" munitions debris	6
NR-160	3284554.4	538376.4	20.9 R	7" munitions debris	2
NR-161	3284559.1	538376.5	13.9 R	6" munitions debris	5
NR-162	3284556.6	538377.7	7.2 R	8" munitions debris	3
NR-163	3284572.3	538378.3	808.5 R	6" pipe with conduit	4
NR-164	3284563.6	538378.5	14.1 R	magnets	3
NR-165	3284553.8	538380.6	8.3 R	wire	2
NR-166	3284561.9	538381.3	11.3 R	6" munitions debris	4
NR-167	3284556.3	538383.1	9.3 R	3" munitions debris	2
NR-168	3284564.9	538383.3	8.7 R	8" scrap	5
NR-169	3284569.8	538383.8	523.0 R	6" pipe	3
NR-170	3284555.2	538384.5	10.4 R	6" munitions debris	4
NR-171	3284566.9	538384.9	4.4 R	magnet	6
NR-172	3284569.2	538387.4	685.5 R	6"x10" pipe with conduit	2

**Table B.2
East Pasture UXO Investigation Phase 3 Dig Results**

Anomaly ID	Northing	Easting	mV	Description	Depth
NR-173	3284552.4	538388.1	6.9 R	2"x7" munitions debris, expended PTT fuse	2, 4
NR-174	3284562.8	538388.9	4.5 R	magnets	14
NR-175	3284568.5	538390.1	28.0 R	conduit/wire	18
NR-176	3284558.9	538391.9	9.0 R	4" rod	6
NR-177	3284566.1	538392.6	6.5 R	4"x6" metal	8
NR-178	3284560.3	538395.3	7.6 R	4" munitions debris	3
NR-179	3284568	538395.4	18.9 R	37mm HE live fuzed	2
NR-180	3284566.7	538396.4	43.4 R	6" pipe with conduit	3
NR-181	3284565.5	538397.4	242.6 R	6" munitions debris	3
NR-182	3284549.6	538397.7	15.0 R	magnet	1
NR-183	3284557.7	538398	18.6 R	magnets	3, 12
NR-184	3284550.9	538401.9	6.1 R	6" munitions debris	18
NR-185	3284564.6	538402	23.7 R	magnet	3
NR-186	3284552.8	538403.4	19.0 R	6" munitions debris, spring, 3" scrap, 4" scrap	1, 2, 3, 6
NR-187	3284563.2	538404.2	60.8 R	6" pipe	2
NR-188	3284559.9	538405.5	19.7 R	6" munitions debris, 3" munitions debris	6, 12, 15
NR-189	3284557.8	538405.7	8.2 R	6" munitions debris	14
NR-190	3284553.1	538406.1	15.7 R	3" munitions debris	1
NR-191	3284545.4	538408.4	7.2 R	3" munitions debris	3
NR-192	3284561.5	538408.8	378.9 R	6" pipe	2
NR-193	3284543.6	538411.4	748.6 R	3 railroad track pieces, 2 4" long cans	6-14
NR-194	3284547.3	538413.6	53.1 R	37mm munitions debris	3
NR-195	3284559.8	538413.9	16.8 R	wire	2
NR-196	3284549.9	538415.1	7.1 R	7" munitions debris	4
SR-001	3284303.3	538200	5.9 "R	asphalt pad	1
SR-002	3284300.4	538203.3	29.0 "R	14" rebar	3
SR-003	3284304.8	538205.1	5.2 "R	7" projectile munitions debris	2
SR-004	3284301.4	538209.3	12.1 "R	2" bolt	6
SR-005	3284299.4	538209.4	18.0 "R	7' wound wire conduit	8
SR-006	3284294.1	538210.6	14.2 "R	12" rebar	4
SR-007	3284303.1	538210.7	43.4 "R	conduit piece	12
SR-008	3284296.5	538212.4	6.4 "R	nut, 2" bolt	3
SR-009	3284304	538212.7	86.8 "R	construction debris	2-8
SR-010	3284302.1	538213.5	184.5 "R	rebar, wire, nails, conduit	8-24
SR-011	3284301.1	538213.8	110.1 "R	rebar, wire, nails, conduit	8-24
SR-012	3284290.2	538214	5.5 "R	septic tank	16
SR-013	3284294	538215.6	37.9 "R	septic tank	18
SR-014	3284288.5	538215.8	37.5 "R	septic tank	22
SR-015	3284290.5	538216	53.7 "R	septic tank	20
SR-016	3284299.7	538216	32.3 "R	1 screw, 1 clip	3
SR-017	3284304.8	538216	14.0 "R	6" railroad spike	2
SR-018	3284289	538219.4	5.4 "R	conduit	8
SR-019	3284296.3	538222.9	8.0 "R	nails, 3" munitions debris	3, 4
SR-020	3284300.7	538223.6	51.5 "R	conduit	10
SR-021	3284302.9	538225.4	9.7 "R	nails	6
SR-022	3284291.6	538227.9	11.5 "R	6" nail	4
SR-023	3284297.6	538227.9	12.0 "R	nail	3
SR-024	3284301.1	538228	5.9 "R	conduit	16
SR-025	3284295.3	538229.4	20.0 "R	3" piece railroad spike	3
SR-026	3284294.6	538233.8	19.9 "R	6" railroad spike	6
SR-027	3284294.3	538238.5	20.8 "R	flat washer	2
SR-028	3284291.9	538243.8	30.8 "R	guide wire with attached 24" bolt	8
SR-029	3284297	538244.1	9.5 "R	4" munitions debris	4
SR-030	3284300.4	538246.9	127.5 "R	reinforced concrete, 24"x2" pipe	12
SR-031	3284302.2	538247.1	100.8 "R	2"x24" pipe	12
SR-032	3284290.2	538260.3	7.1 "R	bailing wire, 2" munitions debris, wire	2, 6, 8
SR-033	3284296.5	538262.4	39.9 "R	sickle bar tooth	6
SR-034	3284298.2	538263.7	6.1 "R	6 pieces 2"x4" to 3"x8" munitions debris	4-9
SR-035	3284290.5	538266.1	16.9 "R	screw, 3" munitions debris	2, 6
SR-036	3284302.9	538268	6.2 "R	4" munitions debris	8
SR-037	3284293.6	538270.6	6.8 "R	4" munitions debris	4
SR-038	3284296.7	538271.9	8.7 "R	4" munitions debris	4
SR-039	3284287	538272.2	21.2 "R	expended landmine canister	6
SR-040	3284285.4	538278.6	22.7 "R	6" pipe with plug cover	8
SR-041	3284292.7	538279.2	7.2 "R	conduit	14
SR-042	3284298.7	538282.2	19.9 "R	6" pipe with plug cover	12
SR-043	3284302	538284.1	9.4 "R	conduit	6
SR-044	3284291	538285.2	17.9 "R	horse shoe with nails	7
SR-045	3284284.8	538285.5	17.3 "R	4 7" bolts	8
SR-046	3284291.2	538289.3	25.4 "R	rifle bolt, 6" bolt	8, 10
SR-047	3284294.1	538291.5	7.2 "R	conduit	4
SR-048	3284298.2	538292.6	29.5 "R	conduit	3-6
SR-049	3284288.6	538293.2	10.0 "R	pipe	3
SR-050	3284295.1	538298.1	7.9 "R	bailing wire, 9" munitions debris	2, 14
SR-050-A	-	-	-	6" munitions debris	5
SR-051	3284287.7	538300.1	6.4 "R	munitions debris	4
SR-052	3284301.1	538303.1	5.7 "R	bolt	3
SR-053	3284288.5	538309.7	6.6 "R	3" wire	2
SR-054	3284291.2	538313.2	13.2 "R	6"x12" channel iron	3
SR-055	3284301.9	538318.9	300.0 "R	6" pipe	2
SR-056	3284292.4	538323.2	37.6 "R	coil-type conduit	6
SR-057	3284287.5	538325.7	13.0 "R	14" barbed wire	6
SR-058	3284293.7	538326.3	104.7 "R	4.5" projectile nose w/ expended fuse	5
SR-059	3284295.9	538328.1	8.6 "R	coil-type conduit	3
SR-060	3284290.2	538329.6	8.7 "R	6" munitions debris	6
SR-061	3284284.8	538330.4	34.0 "R	6" long aluminium pipe	0

Table B.2
East Pasture UXO Investigation Phase 3 Dig Results

Anomaly ID	Northing	Easting	mV	Description	Depth
SR-062	3284287.3	538331	4.8 "R	3" munitions debris	2
SR-063	3284299.3	538331.3	12.0 "R	conduit	0
SR-064	3284295.6	538333.2	48.1 "R	5" munitions debris	5
SR-065	3284297	538335.4	25.2 "R	3" munitions debris	2
SR-066	3284285	538335.9	13.7 "R	7" rod/wire	3
SR-067	3284287.9	538336.8	12.0 "R	barbed wire	6
SR-068	3284293.7	538337.4	6.7 "R	4" munitions debris	4
SR-069	3284298.8	538338.9	5.3 "R	4" munitions debris	2
SR-070	3284285.7	538341.1	4.8 "R	6" nail	3
SR-071	3284289.1	538342.5	4.8 "R	stokes munitions debris	4
SR-072	3284292.9	538342.5	15.1 "R	stokes munitions debris	2
SR-073	3284294.7	538344.6	4.2 "R	nails	4
SR-074	3284300.6	538350.8	9.6 "R	stokes munitions debris	3
SR-075	3284296.7	538351.3	5.7 "R	4" munitions debris	2
SR-076	3284293.4	538351.9	12.8 "R	2" munitions debris	2
SR-077	3284289.3	538352.8	35.5 "R	4"x12" cast iron grate	14
SR-078	3284288.9	538357.2	20.0 "R	3" munitions debris, stripper clip	6
SR-079	3284299.2	538357.8	9.3 "R	6" munitions debris	5
SR-080	3284295	538358.9	10.9 "R	8" munitions debris	4
SR-081	3284292.8	538359	17.9 "R	3" munitions debris, 7" munitions debris	1, 8
SR-082	3284287.3	538360.4	12.0 "R	2 6" nails	3
SR-083	3284299	538361.1	59.4 "R	4" munitions debris	6
SR-084	3284299	538367	14.5 "R	3" munitions debris	1
SR-085	3284288.6	538367.8	9.7 "R	5" munitions debris	7
SR-086	3284288.4	538371.4	6.6 "R	nail	2
SR-087	3284290.6	538371.8	14.6 "R	7" munitions debris	6
SR-088	3284289.6	538374.3	22.4 "R	landmine tube	4
SR-089	3284290	538379.3	9.1 "R	18" wire	0
SR-090	3284294.4	538383.4	59.2 "R	2.5" fence post topper	2
SR-091	3284292.1	538386.7	61.3 "R	6" munitions debris	0
SR-092	3284290.6	538388.1	7.2 "R	8" munitions debris	4
SR-093	3284287.6	538391	16.0 "R	6" munitions debris	4
SR-094	3284299	538393.5	5.2 "R	3" munitions debris	4
SR-095	3284296.1	538394.3	8.5 "R	4" barbed wire	3
SR-096	3284290.5	538396.9	10.9 "R	clasp	2
SR-097	3284301	538397.6	16.9 "R	14" munitions debris	12
SR-098	3284296.1	538398.3	33.0 "R	8" munitions debris	4
SR-099	3284289.9	538400.2	6.4 "R	nail	3
SR-100	3284282.8	538400.5	11.5 "R	3" long wire, horseshoe	2, 4
SR-101	3284288.9	538402.8	9.9 "R	6" munitions debris	3
SR-102	3284294.7	538403.8	18.5 "R	8" munitions debris	2
SR-103	3284290.6	538406.1	13.2 "R	horse shoe	8
SR-104	3284284.1	538408	6.1 "R	5" bolt	1
SR-105	3284289.9	538409.7	10.2 "R	6" 105mm munitions debris	5
ER-001	3284294.3	538407.8	5.8	nails	6
ER-002	3284296.3	538404.7	9.4	wire	0
ER-003	3284299.9	538412.2	5.8	barbed wire	4
ER-004	3284300.1	538408.9	21	nails	6
ER-005	3284301.5	538403	7.1	flat washer	3
ER-006	3284303.3	538406.5	42	rusty wrench	8
ER-007	3284304	538413	29.7	nails	2-8
ER-008	3284305.8	538414.9	66.4	magnet	8
ER-009	3284307.4	538407	6.9	3" munitions debris	6
ER-010	3284310	538408.9	18.8	horseshoe	10
ER-011	3284314.9	538415.8	21.1	2" metal pipe 24" long in concrete	8
ER-012	3284315.4	538408.3	9	3" metal ring (pipe coupler)	10
ER-013	3284320.6	538415.4	16.3	2" metal pipe 24" long in concrete	4
ER-014	3284323.1	538412.8	8.3	rusted ammo can/trash	4
ER-015	3284327.7	538414.7	8	2" pipe end-cap	6
ER-016	3284330.9	538407.3	5.6	car headlight/wire	0
ER-017	3284334.9	538405.7	15.6	10" munitions debris	4
ER-018	3284338.5	538400.5	55.6	barb wire spool end	3
ER-019	3284350	538410.4	21	10"x3" munitions debris	10
ER-020	3284351.9	538415.6	32.6	14" munitions debris	6
ER-021	3284353.2	538412.4	32	horseshoe	10
ER-022	3284357.2	538412.4	18.2	magnet	8
ER-023	3284359.3	538412.4	10.8	6"x10" munitions debris	18
ER-024	3284365.1	538415.1	38	10" munitions debris	24
ER-025	3284365.2	538406.9	18.6	12" steel rod	18
ER-026	3284365.7	538414.1	21.7	munitions debris	0
ER-027	3284369.8	538416.1	8.6	magnets	4, 9
ER-028	3284374.5	538415.6	8.4	3" munitions debris, magnet	4, 9
ER-029	3284375.3	538412.7	18.2	ammo can	6
ER-030	3284376.1	538416.1	8.5	6" munitions debris, stokes mortar munitions debris	6
ER-031	3284377	538413.5	140.7	ammo can	8
ER-032	3284378.8	538415.8	6.9	2 pieces of wire	1, 3
ER-033	3284385.4	538402.4	27.2	2 4"x6" munitions debris	2, 6
ER-034	3284389.4	538417.9	5.4	nails, magnet	3, 6
ER-035	3284397.3	538416.8	13.6	12"x8" munitions debris	8
ER-036	3284400.5	538422.3	5.1	barbed wire, 3" munitions debris, 4" munitions debris, 6" munitions debris	3, 4, 6, 7
ER-037	3284401.2	538416.5	5.7	2"x6" munitions debris	3
ER-038	3284415.9	538419.3	7.2	magnet	2
ER-039	3284425	538434.8	23.6	4"x6" munitions debris	4
ER-040	3284433.5	538434.2	220.5	munitions debris pit	24
ER-041	3284436.9	538427.1	22.6	4"x5" munitions debris	6
ER-042	3284441.6	538436	33.7	barbed wire pit	48

Table B.2
East Pasture UXO Investigation Phase 3 Dig Results

Anomaly ID	Northing	Easting	mV	Description	Depth
ER-043	3284443.5	538431.9	34.7	barbed wire	36
ER-044	3284444.4	538438.9	8.6	4" munitions debris	2
ER-045	3284447.6	538435.5	7.2	7" munitions debris	10
ER-046	3284447.8	538429.5	5.6	nail	0
ER-047	3284451.9	538442.3	9.1	trashcans and rusty flakes	24
ER-048	3284452.3	538438.9	7.7	2 4"x4" munitions debris	2
ER-049	3284453.2	538431.6	10.9	bolt, 6" munitions debris	2, 5
ER-050	3284453.5	538434.9	7.7	2 4" munitions debris	2, 4
ER-051	3284456.2	538435.7	12	8" wire ring	3
ER-052	3284458.8	538439.7	9.5	6" munitions debris, horseshoe	4, 8
ER-053	3284459.8	538440.7	24.1	8" munitions debris	3
ER-054	3284462.6	538443.3	7.9	6" munitions debris	4
ER-055	3284463.3	538435.7	31.2	3" munitions debris, magnet	6, 8
ER-056	3284463.8	538438.9	15.4	nails	6-8
ER-057	3284467.2	538437.5	12.9	3" munitions debris, magnet	2, 3
ER-058	3284468.4	538444.6	30	3" munitions debris, 5" munitions debris	4, 6
ER-059	3284470.3	538438.5	35.2	10" munitions debris	4
ER-060	3284472.1	538441.7	35.3	horseshoe	8
ER-061	3284475.3	538436.7	13.3	8" munitions debris	6
ER-062	3284475.3	538442.7	10.3	railroad spike	6
ER-063	3284478.7	538441.3	17.8	wire, 3" munitions debris, 10" munitions debris, 10"munitions debris	4, 10, 14
ER-064	3284479.5	538436.9	31.2	magnet, wire	0
ER-065	3284480.7	538447.4	13.9	magnet	7
ER-066	3284482.9	538435.5	10	2"x3" munitions debris	6
ER-067	3284484	538439.7	8.1	is, 10" munitions debris, rust flakes with small munitions debris chunks	4, 12, 16
ER-068	3284484.1	538444.8	12	4" munitions debris	5
ER-069	3284484.5	538449.4	28.8	10" munitions debris	6
ER-070	3284485.2	538437.4	8	nail	3
ER-071	3284486.3	538449.7	18.1	10" munitions debris	8
ER-072	3284486.7	538443.5	8.5	3" munitions debris	2
ER-073	3284486.7	538445.2	12.4	4"x4" metal bar	5
ER-074	3284490.3	538438.9	18.2	8" munitions debris	3
ER-075	3284490.3	538448.9	6.5	7" munitions debris	4
ER-076	3284490.4	538445.1	8.3	wire	16
ER-077	3284490.4	538451	7.3	16" wire	4
ER-078	3284493.1	538455.5	31.7	4" munitions debris, 10" munitions debris	10
ER-079	3284493.8	538442	17.3	magnet	8
ER-080	3284494.8	538451	16.4	stokes tail boom	4
ER-081	3284495.7	538451.9	11.3	6" munitions debris	2
ER-082	3284497.7	538453	8.5	5" munitions debris	1
ER-083	3284498.4	538436.1	7.2	4" munitions debris	3
ER-084	3284498.4	538439.2	10.8	10" munitions debris	4
ER-085	3284500.3	538449.4	6.4	6" munitions debris	4
ER-086	3284500.7	538442.2	12.4	magnet	6
ER-087	3284501.3	538454.1	8.6	4" munitions debris, 8" munitions debris	0, 2
ER-088	3284502.9	538450.4	21	magnet, 6" munitions debris, magnet	3, 4, 6
ER-089	3284504.3	538448.6	16.6	8" munitions debris	4
ER-090	3284506.8	538450.1	29.9	7" munitions debris	6
ER-091	3284508.7	538444.3	103.1	corrugated iron	48
ER-092	3284511.2	538448.4	7.9	6 batteries (d cell), wire	0, 3
ER-093	3284511.5	538454.7	14.7	10" munitions debris	6
ER-094	3284512.7	538438.3	10.5	8" munitions debris	4
ER-095	3284512.9	538449.4	12.6	wire, 3" munitions debris, 5" munitions debris	6, 14
ER-096	3284513.8	538443.6	7.2	fence staples	2
ER-097	3284517	538455	6.8	nails, 1"x4" flat steel plate, 6" mounting bracket	0, 6
ER-098	3284519	538444	16.7	4" wire, 9" wire, nails	0, 6
ER-099	3284521	538454.4	7.1	2" munitions debris	3
ER-100	3284521.2	538440.4	9.3	12" bailing wire, nails	6
ER-101	3284525.7	538450.6	20.7	old pin flag, clip, nails	3
SP-001	3284439	538412.4	13.7	nail, nail, magnet	4, 6, 10
SP-002	3284446.6	538409.1	4.1	nail	2
SP-003	3284448.4	538413.6	4.5	8" munitions debris	3
SP-004	3284450.1	538403.2	5.8	wire, magnet	0, 1
SP-005	3284451.4	538400	6.4	wire, 1" pipe	0, 3
SP-006	3284451.5	538397.1	13.6	4" munitions debris	8
SP-007	3284451.9	538403.1	9.1	6" munitions debris	10
SP-008	3284452.5	538395.9	10.1	bolt	4
SP-009	3284453.3	538391.4	5.9	nail	0
SP-010	3284455.1	538415.8	15.4	37mm munitions debris, wire	2, 10
SP-011	3284456.4	538399.6	13.4	0.45 cal bullet, 2"x3" munitions debris	2, 4
SP-012	3284456.9	538414.5	7.3	magnet	12
SP-013	3284457.1	538406.6	4.5	nail, can lid	0, 3
SP-014	3284457.2	538387.2	35.7	12" munitions debris	10
SP-015	3284458.4	538388.4	14.8	coiled conduit	2
SP-016	3284458.4	538409.3	11.1	3" munitions debris	2
SP-017	3284458.9	538397.5	6.9	nail & conduit	0, 4
SP-018	3284458.9	538401.5	5.6	1/8" magnet	0
SP-019	3284459.7	538414.1	26.6	coiled conduit, 2" munitions debris, pusher plate	0, 2, 5
SP-020	3284460.5	538391.7	10.1	37mm munitions debris	6
SP-021	3284463.6	538399.2	6.4	stokes nose plug, wire	3, 4
SP-022	3284464	538407.8	6.9	4"x4" munitions debris	10
SP-023	3284464.1	538393.1	9.2	6" munitions debris	4
SP-024	3284464.3	538414	17.8	munitions debris, magnet	3, 6
SP-025	3284464.8	538401.1	4.3	3" munitions debris, 4" munitions debris	1, 2
SP-026	3284465.3	538395	15.4	1" pipe, 11" munitions debris	4, 14
SP-027	3284466.6	538405.5	9.6	10" munitions debris	8

**Table B.2
East Pasture UXO Investigation Phase 3 Dig Results**

Anomaly ID	Northing	Easting	mV	Description	Depth
SP-028	3284467.8	538409	28.1	buried fence wire	30
SP-029	3284468.5	538411.8	8.2	buried fence wire	30
SP-030	3284469	538419.1	11.7	3" munitions debris	4
SP-031	3284469.2	538401.7	19.1	4" munitions debris	2
SP-032	3284469.9	538395	4	2" munitions debris	3
SP-033	3284471.1	538408.4	94.8	-	-
SP-034	3284472.5	538416.2	15.3	6" munitions debris	8
SP-035	3284472.9	538404.2	21.9	bailing wire, magnet, 10" munitions debris	2, 4, 9
SP-036	3284473.3	538401.1	6.2	magnet, 2" munitions debris, 7" munitions debris	1, 3, 3
SP-037	3284473.5	538426.7	4.5	2 pieces 3" munitions debris	4, 8
SP-038	3284474	538419.5	17	6" munitions debris, magnet	4, 6
SP-039	3284474.9	538421.2	10	munitions debris, 2" munitions debris, 3" munitions debris, scrap cans	0-8
SP-040	3284475.2	538406.4	7.3	3" munitions debris	6
SP-041	3284475.4	538417.1	78.6	10"x7" munitions debris, 5"x2" munitions debris	8
SP-042	3284475.8	538403.9	17.8	munitions debris	24
SP-043	3284475.8	538409.5	11.7	conduit, 8" munitions debris	0, 7
SP-044	3284476.5	538405.2	11.4	banding wire and fence wire (trash pit)	22
SP-045	3284477.5	538403.6	13.4	13"x6" munitions debris	18
SP-046	3284478	538409	5.9	magnets and conduit, 7" munitions debris	0, 5
SP-047	3284478.2	538423.8	9.8	nails	2
SP-048	3284478.4	538404.9	12	1"x2" pipe coupling	2
SP-049	3284478.4	538413.2	10.2	4" munitions debris	6
SP-050	3284478.8	538432.5	17.5	3" munitions debris, 2" munitions debris, 4"x4" munitions debris	2, 3, 4
SP-051	3284479.9	538405.6	17.4	3" munitions debris, conduit	0, 4
SP-052	3284480.4	538411.4	13.5	5" munitions debris	6
SP-053	3284480.5	538407.4	13.1	magnet	4
SP-054	3284482.2	538409.5	11.2	1" munitions debris, 7" munitions debris	3, 5
SP-055	3284482.4	538419.5	7.3	6" munitions debris	10
SP-056	3284482.6	538425.3	37.5	3" munitions debris	2
SP-057	3284482.9	538431.4	18.7	8" munitions debris	3
SP-058	3284484.9	538423.7	9.6	2" munitions debris, 4" munitions debris	2, 3
SP-059	3284487.2	538428	51.4	3" munitions debris, 7" munitions debris, nails	2, 4, 7
SP-060	3284488.3	538423.7	8.7	munitions debris, nails, wire, construction debris	1, 2, 4, 6
SP-061	3284492.9	538426.8	28.9	bed of nails	4
SM-001	3284311.5	538390.5	7.7	wire	2
SM-002	3284314.1	538397.5	32.8	6"x8" munitions debris	13
SM-003	3284314.9	538400.8	7.9	1/4" magnet	7
SM-004	3284315.7	538396.4	6.6	1"x8" munitions debris	4
SM-005	3284315.9	538399.3	6	wire	2
SM-006	3284316.6	538406	5.6	wire	14
SM-007	3284318.1	538387.3	5.4	wire, nails	1, 8
SM-008	3284318.1	538392.4	13.4	wire	10
SM-009	3284318.4	538390	8.7	wire	1
SM-010	3284319.8	538400.7	5.3	wire	3
SM-011	3284320.5	538377.3	10.6	37mm base w/ expended fuse	3
SM-012	3284320.6	538407.2	4.5	wire	10
SM-013	3284321.3	538400.3	12.1	wire	0, 2, 6
SM-014	3284321.8	538375.1	13	6" long wire	8, 14
SM-015	3284325.7	538390.6	6	2"x2" munitions debris	2
SM-016	3284325.8	538404.8	5.5	1/2"x1/4" magnet	18
SM-017	3284330.7	538394.5	7.4	37mm munitions debris, 2.73" long piece	2
SM-018	3284330.8	538390.8	6.2	wire	0
SM-019	3284331.1	538399.1	16.5	6" stokes munitions debris	3
SM-020	3284331.9	538382.6	6	6" round plate	6
SM-021	3284332.9	538387.9	13.7	wire	3
SM-022	3284334	538384	6.1	wound steel conduit	6, 8
SM-023	3284334.1	538395.6	36.3	2" munitions debris, 37mm munitions debris, 10" munitions debris	2, 6, 2
SM-024	3284338.5	538387.9	5.9	5" munitions debris	6

NR=north road
SR=south road
ER=east road
SP=septic tank
SM=soil mound
WP=white phosphorous
HE=high explosive

**Table B.3
East Pasture UXO Investigation Phase 5 Dig Results**

Anomaly ID	Northing	Easting	mV	Description	Depth
IF-001	3284385.43	538253.04	NA	recently graded	NA
IF-002	3284384.47	538254.90	NA	recently graded	NA
IF-003	3284381.71	538258.10	NA	recently graded	NA
IF-004	3284377.99	538254.83	NA	recently graded	NA
IF-005	3284370.25	538256.39	NA	illumination canister	6
IF-006	3284366.97	538258.92	NA	illumination canister	4
IF-007	3284367.79	538266.07	NA	wire	2
IF-008	3284358.86	538256.17	NA	no contact/recently graded	NA
IF-009	3284359.38	538250.51	NA	no contact/recently graded	NA
IF-010	3284356.40	538255.72	NA	welding rod	6
IF-011	3284357.59	538263.54	NA	no contact/recently graded	NA
IF-012	3284354.31	538261.53	NA	munitions debris	2
IF-013	3284350.52	538250.73	NA	bolt	0
IF-014	3284350.44	538255.80	NA	no contact/recently graded	NA
IF-015	3284361.91	538267.93	NA	no contact/recently graded	NA
IF-016	3284346.50	538264.73	NA	construction scrap	-
IF-017	3284346.80	538258.62	NA	no contact/recently graded	NA
IF-018	3284345.68	538256.61	NA	coaxial cable	-
IF-019	3284346.27	538248.28	NA	wire	0
IF-020	3284341.58	538249.32	NA	munitions debris	4
IF-021	3284341.44	538253.79	NA	bolt	0
IF-022	3284332.28	538247.61	NA	metal scrap	0
IF-023	3284319.55	538249.24	NA	munitions debris/wire and underground cable	0
IF-024	3284315.90	538253.79	NA	construction material/bolt	6
IF-025	3284311.73	538245.74	NA	communication wire	0
IF-026	3284312.62	538253.12	NA	6" cast iron pipe	15
IF-027	3284309.87	538251.40	NA	munitions debris	12
IF-028	3284312.85	538257.95	NA	pipe	8
IF-029	3284316.35	538260.93	NA	no contact/entrance reinforcement	NA
IF-030	3284317.84	538260.78	NA	construction material	-
IF-031	3284315.60	538264.80	NA	construction material	-
IF-032	3284308.75	538261.97	NA	no contact/recently graded	NA
IF-033	3284308.53	538264.73	NA	no contact/recently graded	NA
IF-034	3284309.12	538269.12	NA	no contact/recently graded	NA
IF-035	3284311.80	538267.71	NA	construction material	-
IF-036	3284307.78	538279.69	NA	illumination canister	6
IF-037	3284315.53	538286.17	NA	48" north of target 37	6
IF-038	3284316.94	538287.58	NA	no contact/recently graded	NA
IF-039	3284323.64	538276.94	NA	scrap metal	6
IF-040	3284325.28	538273.96	NA	scrap metal	-
IF-041	3284325.88	538283.94	NA	wire	0
IF-042	3284323.64	538291.90	NA	no contact/recently graded	NA
IF-043	3284321.71	538292.87	NA	no contact/recently graded	NA
IF-044	3284318.58	538291.83	NA	no contact/recently graded	NA
IF-045	3284314.48	538295.77	NA	sheet metal	2
IF-046	3284317.76	538298.75	NA	munitions debris	4
IF-047	3284321.78	538296.22	NA	no contact/recently graded	NA
IF-048	3284322.23	538299.35	NA	no contact/recently graded	NA
IF-049	3284321.56	538302.40	NA	munitions debris	2
IF-050	3284321.63	538305.53	NA	cast iron pipe	2
IF-051	3284315.01	538317.96	NA	metal scrap	12
IF-052	3284321.56	538317.14	NA	wire	4
IF-053	3284315.75	538320.86	NA	pipe (left in place)	NA
IF-054	3284306.22	538323.39	NA	sheet metal	2
IF-055	3284309.79	538334.41	NA	munitions debris	6
IF-056	3284309.35	538338.51	NA	1/4" thick square plate	8
IF-057	3284305.55	538343.42	NA	no contact/recently graded	NA
IF-058	3284310.54	538343.72	NA	no contact/recently graded	NA
IF-059	3284309.20	538348.34	NA	no contact (asphalt or concrete)	NA
IF-060	3284312.25	538350.94	NA	munitions debris	2
IF-061	3284311.66	538354.37	NA	munitions debris	3
IF-062	3284314.86	538353.17	NA	munitions debris	2
IF-063	3284316.64	538345.36	NA	no contact	NA
IF-064	3284317.16	538340.22	NA	munitions debris	2
IF-065	3284317.54	538333.37	NA	no contact	NA
IF-066	3284316.64	538326.60	NA	no contact/recently graded	NA
IF-067	3284323.12	538335.31	NA	no contact	NA
IF-068	3284323.49	538346.10	NA	illumination canister	2
IF-069	3284327.44	538330.24	NA	no contact	NA
IF-070	3284330.04	538334.86	NA	no contact	NA
IF-071	3284329.23	538327.94	NA	no contact	NA
IF-072	3284333.92	538329.72	NA	rebar	0
IF-073	3284336.22	538328.46	NA	munitions debris	2
IF-074	3284335.63	538323.10	NA	munitions debris	2
IF-075	3284339.50	538332.48	NA	scrap metal	0
IF-076	3284334.36	538351.83	NA	munitions debris	4
IF-077	3284342.33	538346.70	NA	smoke grenade/4' west of target	0
IF-078	3284343.89	538327.86	NA	no contact/recently graded	NA
IF-079	3284347.54	538341.63	NA	scrap metal (shared with target 80)	0
IF-080	3284349.18	538344.54	NA	scrap metal	0
IF-081	3284348.51	538348.93	NA	illumination canister	4
IF-082	3284366.85	538250.83	NA	munitions debris	6
IF-083	3284313.34	538276.88	NA	no contact/recently graded	NA
IFB-001	3284304.80	538355.40	148.50	iron bar	2
IFB-002	3284304.40	538356.20	162.50	iron bar	2
IFB-003	3284303.60	538359.30	37.40	munitions debris	6

**Table B.3
East Pasture UXO Investigation Phase 5 Dig Results**

Anomaly ID	Northing	Easting	mV	Description	Depth
IFB-004	3284305.20	538362.40	10.00	no contact	-
IFB-005	3284307.00	538360.90	25.40	munitions debris	6
IFB-006	3284308.80	538361.80	13.20	munitions debris	4
IFB-007	3284303.50	538365.90	6.10	no contact	-
IFB-008	3284304.00	538371.40	10.50	munitions debris	3
IFB-009	3284304.80	538370.30	7.10	munitions debris	8
IFB-010	3284305.30	538372.00	6.50	no contact	-
IFB-011	3284305.60	538377.90	4.40	nail	4
IFB-012	3284307.20	538369.60	9.50	nail	2
IFB-013	3284308.10	538368.80	8.20	munitions debris	6
IFB-014	3284309.90	538367.00	22.50	wire	0
IFB-015	3284310.60	538367.80	16.40	wire	0
IFB-016	3284310.50	538373.20	7.00	no contact	-
IFB-017	3284313.80	538372.30	31.90	wire	3
IFB-018	3284312.40	538369.50	6.50	wire	0
IFB-019	3284311.20	538364.90	7.10	no contact	-
IFB-020	3284312.50	538361.00	15.10	munitions debris	3
IFB-021	3284312.80	538360.10	12.90	munitions debris	3
IFB-022	3284312.40	538356.90	4.50	no contact	-
IFB-023	3284309.20	538355.40	7.80	no contact	-
IFB-024	3284311.70	538354.50	23.00	no contact	-
IFB-025	3284315.00	538353.20	35.70	no contact	-
IFB-026	3284317.80	538357.30	4.40	munitions debris	4
IFB-027	3284320.00	538356.90	17.00	no contact	-
IFB-028	3284321.50	538355.90	17.60	wire	12
IFB-029	3284322.60	538357.70	12.40	no contact	-
IFB-030	3284318.90	538365.40	11.90	no contact	-
IFB-031	3284318.10	538374.80	10.40	rod	6
IFB-032	3284319.10	538376.10	4.30	no contact	-
IFB-033	3284320.30	538377.70	11.20	tin scrap	0
IFB-034	3284322.00	538376.10	13.00	wire	12
IFB-035	3284321.50	538374.80	11.40	wire	12
IFB-036	3284323.20	538373.60	5.50	wire	2
IFB-037	3284322.00	538363.50	3.50	no contact	-
IFB-038	3284327.10	538367.50	5.00	no contact	-
IFB-039	3284327.60	538366.30	4.80	no contact	-
IFB-040	3284330.30	538367.20	4.70	munitions debris	4
IFB-041	3284335.00	538366.60	10.40	chain	6
IFB-042	3284334.40	538367.50	15.10	wire	6
IFB-043	3284335.20	538373.00	17.80	wire	2
IFB-044	3284334.70	538373.90	58.40	munitions debris	2
IFB-045	3284335.30	538375.90	6.70	no contact	-
IFB-046	3284337.00	538375.40	10.60	munitions debris	6
IFB-047	3284341.10	538368.10	7.80	munitions debris	6
IFB-048	3284344.20	538371.80	5.20	metal scrap	2
IFB-049	3284344.50	538373.40	4.80	nail	4
IFB-050	3284345.70	538373.10	6.00	munitions debris	6
IFB-051	3284344.60	538365.20	13.00	munitions debris	6
IFB-052	3284341.30	538356.40	4.40	tin scrap	3
IFB-053	3284343.90	538357.10	8.40	wire	2
IFB-054	3284345.20	538356.90	14.10	munitions debris	2
IFB-055	3284346.10	538357.80	17.20	no contact	-
IFB-056	3284347.90	538356.80	5.20	nail	4
IFB-057	3284348.80	538365.60	8.50	munitions debris	6
IFB-058	3284351.80	538369.20	6.50	no contact	-
IFB-059	3284351.30	538371.00	8.60	nail	3
IFB-060	3284351.80	538372.70	5.70	no contact	-
IFB-061	3284353.30	538360.60	25.30	munitions debris	8
IFB-062	3284352.10	538355.60	13.40	munitions debris	4
IFB-063	3284358.00	538355.40	35.80	munitions debris	6
IFB-064	3284359.70	538366.30	16.10	tin scrap	0
IFB-065	3284361.50	538369.30	27.50	60mm munitions debris	3
IFB-066	3284358.80	538370.10	5.40	no contact	-
IFB-067	3284359.20	538372.00	4.50	munitions debris	2
IFB-068	3284358.40	538372.80	5.90	no contact	-
IFB-069	3284364.20	538373.10	4.30	nail	4
IFB-070	3284367.70	538367.80	6.00	no contact	-
IFB-071	3284375.30	538365.30	6.00	nail	8
IFB-072	3284373.60	538362.50	4.70	rust scrap	2
IFB-073	3284373.70	538361.10	5.70	nail	2
IFB-074	3284374.60	538357.40	4.20	munitions debris	12
IFB-075	3284373.30	538354.70	42.30	munitions debris	12
IFB-076	3284372.70	538356.10	40.50	nail	4
IFB-077	3284366.90	538356.90	24.50	no contact	-
IFB-078	3284363.40	538344.00	50.70	no contact	-
IFB-079	3284361.00	538339.50	12.80	railroad spike	6
IFB-080	3284349.20	538344.50	101.60	nail	2
IFB-081	3284351.60	538334.50	11.70	no contact	-
IFB-082	3284352.80	538334.00	8.00	no contact	-
IFB-083	3284355.00	538328.50	4.70	bolt	6
IFB-084	3284356.50	538324.80	3.70	nail	6
IFB-085	3284358.30	538333.10	5.20	20mm TPT	
IFB-086	3284361.20	538329.90	4.50	nail	4
IFB-087	3284362.70	538332.00	4.00	nail	4
IFB-088	3284365.30	538327.70	3.90	no contact	-
IFB-089	3284362.80	538323.90	11.00	bolt	6

**Table B.3
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Anomaly ID	Northing	Easting	mV	Description	Depth
IFB-090	3284366.20	538324.20	8.50	iron bar	6
IFB-091	3284367.10	538327.80	4.80	no contact	-
IFB-092	3284365.70	538332.80	7.10	munitions debris	2
IFB-093	3284368.00	538332.40	11.70	bolt	6
IFB-094	3284368.40	538334.90	12.60	munitions debris	4
IFB-095	3284367.20	538335.70	4.30	munitions debris	2
IFB-096	3284367.60	538340.90	10.80	munitions debris	6
IFB-097	3284368.60	538341.40	7.80	munitions debris	6
IFB-098	3284371.90	538343.00	31.50	munitions debris	10
IFB-099	3284372.80	538343.40	23.60	munitions debris	11
IFB-100	3284373.20	538346.00	4.80	nail	2
IFB-101	3284374.60	538348.10	7.10	munitions debris	
IFB-102	3284378.40	538345.50	8.10	nail	6
IFB-103	3284377.70	538343.40	28.60	munitions debris	4
IFB-104	3284376.30	538340.80	6.40	munitions debris	12
IFB-105	3284375.00	538338.70	72.50	wire in concrete pieces	24
IFB-106	3284373.70	538339.40	135.30	wire in concrete pieces	24
IFB-107	3284372.10	538338.60	20.20	tin scrap	3
IFB-108	3284370.80	538338.80	43.50	munitions debris	3
IFB-109	3284370.80	538340.50	4.60	munitions debris	8
IFB-110	3284371.20	538334.30	109.90	fence post	24
IFB-111	3284372.10	538333.70	130.10	fence post	24
IFB-112	3284379.50	538331.60	9.10	mule shoe	12
IFB-113	3284380.80	538331.90	7.00	no contact	-
IFB-114	3284378.90	538326.40	6.30	no contact	-
IFB-115	3284377.30	538324.30	11.30	munitions debris	3
IFB-116	3284375.20	538326.00	4.50	metal scrap	4
IFB-117	3284374.60	538326.80	8.60	metal scrap	4
IFB-118	3284371.80	538323.80	20.70	scrap	2
IFB-119	3284371.10	538325.40	4.60	no contact	-
IFB-120	3284381.10	538341.40	7.10	scrap	4
IFB-121	3284381.50	538354.00	6.10	munitions debris	4
IFB-122	3284380.70	538348.30	14.20	munitions debris	4
PR-001	3284288	538149	NA	pipe	6
PR-002	3284289.5	538144.5	NA	car bumper	15
PR-003	3284292	538136	NA	metal hasp	6
PR-004	3284293	538131.5	NA	can	6
PR-005	3284293.5	538153	NA	pipe	18
PR-006	3284294	538126	NA	pipehorseshoe	12
PR-007	3284295	538159.5	NA	wire	6
PR-008	3284295.5	538124	NA	under road	NA
PR-009	3284296.5	538146.5	NA	under road	NA
PR-010	3284298.5	538147.5	NA	under road	NA
PR-011	3284299.5	538128.5	NA	surface metal	8
PR-012	3284300.5	538126.5	NA	surface metal	8
PR-013	3284300.5	538137	NA	tin	18
PR-014	3284301	538121	NA	metal hasp	6
PR-015	3284301.5	538157	NA	under road	NA
PR-016	3284305	538137	NA	nails	6
PR-017	3284306.5	538134.5	NA	metal pail	24
PR-018	3284307	538114.5	NA	bolt	2
PR-019	3284307	538128	NA	wire	6
PR-020	3284308.5	538130.5	NA	nail	4
PR-021	3284309	538133.5	NA	scrap	18
PR-022	3284315	538123.5	NA	nail	13
PR-023	3284317	538110	NA	pipe	0
PR-024	3284320	538108	NA	metal bar	6
PR-025	3284324.5	538121	NA	no contact	NA
PR-026	3284325.5	538123.5	NA	no contact	NA
PR-027	3284327	538111.5	NA	nail	6
PR-028	3284327.5	538108	NA	wire	6
PR-029	3284332	538117.5	NA	wire	6
PR-030	3284333	538104.5	NA	pipe cap	6
PR-031	3284335.5	538115	NA	metal bar	3
PR-032	3284337	538119	NA	no contact	NA
PR-033	3284340.5	538113.5	NA	no contact	NA
PR-034	3284341	538105	NA	wire	0
PR-035	3284344.5	538102	NA	wire	4
PR-036	3284345	538114	NA	banding	2
PR-037	3284346.5	538104	NA	scrap metal	6
PR-038	3284347.5	538098.5	NA	scrap metal	2
PR-039	3284347.5	538113	NA	nails	6
PR-040	3284351.5	538097	NA	bolt	8
PR-041	3284358.5	538106.5	NA	sign	NA
PR-042	3284358.5	538111	NA	horseshoe	6
PR-043	3284366.5	538104.5	NA	wire	6
PR-044	3284370	538101	NA	wire	4
PR-045	3284373	538103.5	NA	wire	6
PR-046	3284375.5	538091	NA	wire	4
PR-047	3284377.5	538098.5	NA	rebar	6
PR-048	3284379.5	538096.5	NA	rebar	0
PR-049	3284381	538090.5	NA	rebar	12
PR-050	3284388	538094.5	NA	wire	6
PR-051	3284389	538099.5	NA	bolt	5
PR-052	3284392	538086	NA	rebar	18
PR-053	3284393.5	538090.5	NA	rebar	-

**Table B.3
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Anomaly ID	Northing	Easting	mV	Description	Depth
PR-054	3284396	538089.5	NA	rebar	-
PR-055	3284398.5	538088.5	NA	rebar	-
PR-056	3284401	538080.5	NA	metal rod	18
PR-057	3284412	538072.5	NA	illumination canister	6
PR-058	3284412	538086.5	NA	wire	6
PR-059	3284417.5	538083	NA	wire	4
PR-060	3284419	538073.5	NA	sign post	NA
PR-061	3284424	538079.5	NA	metal bracket	6
PR-062	3284426.5	538081	NA	wire	3
PR-063	3284429	538079	NA	munitions debris	6
PR-064	3284433	538077	NA	electronic fuze	6
PR-065	3284437.5	538062.5	NA	tin can	4
PR-066	3284439	538073.5	NA	wire	4
PR-067	3284440.5	538061	NA	munitions debris	4
PR-068	3284443	538072	NA	nails	5
PR-069	3284444.5	538061	NA	scrap	2
PR-070	3284449	538070	NA	can	4
PR-071	3284458.5	538056	NA	wire	6
PR-072	3284461	538065.5	NA	nails	6
PR-073	3284464.5	538064.5	NA	wire	6
PR-074	3284465.5	538055.5	NA	wire	12
PR-075	3284468.5	538054.5	NA	munitions debris	12
PR-076	3284469	538062.5	NA	wire	12
PR-077	3284470.5	538052.5	NA	wire	12
PR-078	3284473	538049.5	NA	wire	8
PR-079	3284476	538060	NA	wire	12
PR-080	3284478	538050	NA	wire	12
PR-081	3284483	538048.5	NA	wire	3
PR-082	3284488.5	538048	NA	wire	3
PR-083	3284498	538046	NA	wire	-
PR-086	3284503.5	538040	NA	metal ramps	4
PR-087	3284515	538047	NA	munitions debris	1
PR-088	3284518.5	538036.5	NA	munitions debris	6
PR-089	3284527	538035.5	NA	munitions debris	6
PR-090	3284527.5	538043.5	NA	no contact	NA
PR-092	3284529.5	538035	NA	wire	6
PR-094	3284537	538034.5	NA	pipe	5
PR-095	3284541.5	538030	NA	no contact	NA
PR-096	3284546	538029	NA	no contact	NA
PR-097	3284549	538037.5	NA	no contact	NA
PR-099	3284550	538030	NA	oil filter	3
PR-100	3284552	538029.5	NA	no contact	NA
PR-101	3284554	538025.5	NA	no contact	NA
PR-102	3284555.5	538036.5	NA	munitions debris	3
PR-103	3284560	538025	NA	wire	3
PR-104	3284560.5	538035.5	NA	rebar	3
PR-105	3284568	538029	NA	nails and horseshoe	24
PR-107	3284570	538024.5	NA	no contact	NA
PR-108	3284570.5	538027	NA	munitions debris	2
PR-110	3284573.5	538035	NA	wire	24
PR-113	3284582	538027	NA	no contact	NA
PR-114	3284584.5	538035.5	NA	munitions debris	6
PR-115	3284585.5	538027	NA	rebar	8
PR-116	3284587.5	538037.5	NA	wire	2
PR-117	3284588.5	538025.5	NA	munitions debris	6
PR-119	3284594	538027	NA	munitions debris	6
PR-120	3284600.5	538065	NA	munitions debris	3
PR-121	3284600.5	538076	NA	munitions debris	6
PR-122	3284600.5	538096	NA	wire	6
PR-123	3284601	538049.5	NA	metal bar	2
PR-124	3284601	538094	NA	wire	6
PR-126	3284601.5	538027.5	NA	munitions debris	0
PR-127	3284601.5	538038.5	NA	rebar	0
PR-128	3284601.5	538083	NA	no contact	NA
PR-129	3284602.5	538059	NA	munitions debris	6
PR-130	3284603	538085	NA	munitions debris	6
PR-131	3284603.5	538062.5	NA	munitions debris	6
PR-132	3284603.5	538066	NA	no contact	NA
PR-133	3284603.5	538070.5	NA	munitions debris	6
PR-134	3284603.5	538079.5	NA	munitions debris	8
PR-135	3284603.5	538092	NA	no contact	NA
PR-137	3284604.5	538093.5	NA	munitions debris	6
PR-138	3284605	538047.5	NA	munitions debris	6
PR-139	3284605	538075	NA	munitions debris	8
PR-140	3284605	538089	NA	munitions debris	6
PR-141	3284606	538043.5	NA	nail	4
PR-142	3284606	538064	NA	wire	2
PR-143	3284606	538091	NA	no contact	NA
PR-144	3284606.5	538040.5	NA	munitions debris	0
PR-145	3284606.5	538072	NA	munitions debris	6
PR-146	3284606.5	538096	NA	munitions debris	6
PR-147	3284607	538099	NA	munitions debris	6
PR-148	3284607.5	538077.5	NA	wire	0
PR-149	3284607.5	538082	NA	munitions debris	4
PR-150	3284608.5	538067	NA	rebar	6
PR-151	3284608.5	538086.5	NA	spike	6

**Table B.3
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Anomaly ID	Northing	Easting	mV	Description	Depth
PR-152	3284609.5	538044	NA	wire	3
PR-153	3284609.5	538049.5	NA	no contact	NA
PR-154	3284610	538061.5	NA	munitions debris	6
PR-155	3284610.5	538073	NA	wire	2
PR-157	3284612	538030.5	NA	rebar	0
PR-158	3284612	538055.5	NA	munitions debris	2
PR-159	3284612.5	538049.5	NA	munitions debris	3
PR-160	3284613	538083	NA	wire	4
PR-161	3284613	538092.5	NA	munitions debris	6
PR-162	3284615	538089	NA	wire	0
PR-164	3284618.5	538039	NA	nails	3
PR-165	3284622.5	538030.5	NA	munitions debris	6
PR-166	3284625	538040.5	NA	wire	2
PR-168	3284628.5	538028.5	NA	rebar	8
PR-169	3284632.5	538033	NA	in road	NA
PR-171	3284638	538027	NA	tunnel reinforcing	0
PR-185	3284643.5	538018	NA	wire	3
PR-186	3284645.5	538038	NA	nails	8
PR-187	3284648	538031	NA	no contact (gully)	NA
PR-188	3284649.5	538045	NA	no contact (gully)	NA
PR-189	3284652.5	538035	NA	no contact (gully)	NA
PR-190	3284653	538031	NA	no contact (gully)	NA
PR-192	3284656.5	538029	NA	banding	0
PR-193	3284659.5	538013.5	NA	wire	2
PR-194	3284661.5	538024	NA	no contact	NA
PR-195	3284662	538011	NA	wire	2
PR-196	3284662.5	538027	NA	munitions debris	4
PR-197	3284668	538018	NA	wire	0
PR-198	3284669	538005.5	NA	railroad spike	4
PR-200	3284674.5	538010	NA	no contact	NA
PR-201	3284675.5	538017	NA	rebar	6
PR-203	3284678.5	538013	NA	wire	6
PR-204	3284679.5	537999	NA	sign post	NA
PR-205	3284680	538006.5	NA	munitions debris	8
PR-207	3284683.5	538006.5	NA	munitions debris	8
PR-208	3284685	537992.5	NA	wire	8
PR-209	3284685.5	538008.5	NA	nail	8
PR-211	3284692	538002	NA	munitions debris	3
PR-212	3284693	537986.5	NA	wire	3
PR-214	3284695.5	538001.5	NA	munitions debris	1
PR-215	3284696	537994.5	NA	wire	0
PR-216	3284696.5	537993	NA	wire	0
PR-217	3284698	537989	NA	road	NA
PR-218	3284701	537998.5	NA	munitions debris	3
PR-219	3284701.5	537990.5	NA	wire	3
PR-220	3284701.5	537994	NA	tin can	2
PR-222	3284705	537994	NA	wire	2
PR-224	3284705.5	537978.5	NA	wire	0
PR-225	3284708.5	537989	NA	munitions debris	3
PR-226	3284711.5	537987.5	NA	munitions debris	3
PR-227	3284713.5	537973	NA	wire	3
PR-229	3284714.5	537970	NA	munitions debris	18
PR-231	3284722	537963.5	NA	no contact	NA
PR-232	3284722.5	537976	NA	no contact	NA
PR-233	3284725	537977	NA	no contact	NA
PR-234	3284727	537961.5	NA	munitions debris	7
PR-235	3284729.5	537960	NA	wire	3
PR-236	3284729.5	537969	NA	no contact	NA
PR-237	3284731.5	537956	NA	munitions debris	6
PR-238	3284733.5	537962.5	NA	no contact	NA
PR-240	3284738	537952	NA	wire	3
PR-242	3284747.5	537953.5	NA	nail	0
PR-244	3284753	537936.5	NA	munitions debris	12
PR-247	3284759.5	537931	NA	munitions debris	4
PR-252	3284769.5	537924	NA	wire	3
PR-254	3284778.5	537905.5	NA	munitions debris	3
PR-257	3284781.5	537923.5	NA	no contact	NA
PR-260	3284786.5	537904.5	NA	munitions debris	8
PR-261	3284792	537901	NA	wire	8
PR-263	3284795	537899	NA	same as 546	NA
PR-265	3284797.5	537897	NA	bullet	3
PR-266	3284798	537909	NA	nail	1
PR-268	3284800.5	537912	NA	trash	24
PR-271	3284805.5	537908	NA	bullets	5
PR-275	3284808.5	537905.5	NA	no contact	NA
PR-276	3284811	537899	NA	munitions debris	4
PR-278	3284812	537903	NA	munitions debris	30
PR-281	3284815.5	537900.5	NA	munitions debris	6
PR-282	3284818	537896	NA	wire	0
PR-283	3284820	537898	NA	wire	8
PR-287	3284824	537881.5	NA	wire	4
PR-290	3284826	537891	NA	no contact	NA
PR-292	3284826.5	537894.5	NA	wire	3
PR-293	3284828	537893.5	NA	wire	3
PR-295	3284831	537888.5	NA	no contact	NA
PR-296	3284832	537885	NA	ammo clip	1

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Anomaly ID	Northing	Easting	mV	Description	Depth
PR-297	3284833.5	537887.5	NA	nail	1
PR-298	3284834.5	537892	NA	nail	3
PR-299	3284836.5	537885.5	NA	nail	1
PR-302	3284838	537889.5	NA	wire and rust	24
PR-303	3284839.5	537886.5	NA	wire	4
PR-306	3284842.5	537884.5	NA	wire	3
PR-308	3284845	537869.5	NA	wire	3
PR-310	3284847	537885.5	NA	bullet	3
PR-311	3284848	537881	NA	bullet	3
PR-313	3284849.5	537886.5	NA	wire	1
PR-316	3284851.5	537881	NA	nail	3
PR-319	3284855	537873	NA	wire	18
PR-320	3284855.5	537881.5	NA	munitions debris	2
PR-323	3284858	537881	NA	same as 524	NA
PR-325	3284864.5	537870	NA	wire	18
PR-331	3284872.5	537867	NA	unfuzed stokes	24
PR-337	3284881	537877.5	NA	rebar	4
PR-339	3284884	537872	NA	under road	NA
PR-340	3284888.5	537876.5	NA	wire	3
PR-341	3284890.5	537877.5	NA	munitions debris	3
PR-342	3284892.5	537875.5	NA	munitions debris	3
PR-345	3284895.5	537869.5	NA	unfuzed 3" stokes	3
PR-346	3284896	537875	NA	munitions debris	0
PR-347	3284897.5	537864	NA	unfuzed 3" stokes	2
PR-348	3284899	537875	NA	munitions debris	3
PR-349	3284900.5	537863.5	NA	unfuzed 3" stokes	24
PR-350	3284903.5	537875.5	NA	munitions debris	0
PR-353	3284911.5	537874	NA	wire	0
PR-354	3284913.5	537872.5	NA	wire	0
PR-355	3284917	537866.5	NA	no contact	NA
PR-356	3284917	537869	NA	wire	0
PR-357	3284918	537873.5	NA	wire	0
PR-359	3284922	537864	NA	wire	3
PR-360	3284922	537872	NA	wire	0
PR-361	3284927	537872	NA	metal bar	24
PR-362	3284927.5	537867.5	NA	pipe	24
PR-364	3284930.5	537864.5	NA	under road	NA
PR-365	3284931.5	537857	NA	rebar under road	NA
PR-366	3284932	537869	NA	munitions debris	0
PR-369	3284936.5	537866.5	NA	bolt	6
PR-371	3284941.5	537848.5	NA	wire	12
PR-372	3284941.5	537864.5	NA	munitions debris	6
PR-374	3284944.5	537853.5	NA	no contact	NA
PR-376	3284945.5	537864.5	NA	wire	4
PR-377	3284946	537859.5	NA	wire	1
PR-378	3284946	537867.5	NA	wire	2
PR-379	3284947.5	537838.5	NA	horseshoe	12
PR-381	3284948	537845.5	NA	wire	24
PR-383	3284949.5	537838	NA	wire	5
PR-384	3284949.5	537866	NA	wire	2
PR-385	3284950.5	537847	NA	unfuzed stokes	24
PR-386	3284951.5	537859	NA	metal bar	8
PR-387	3284952.5	537861.5	NA	wire	8
PR-388	3284957.5	537840	NA	no contact	NA
PR-389	3284958.5	537861.5	NA	metal bar	24
PR-390	3284958.5	537865	NA	wire and fence post	6
PR-391	3284959.5	537857	NA	wire	18
PR-392	3284960.5	537835.5	NA	wire	6
PR-393	3284961	537830.5	NA	no contact	NA
PR-394	3284962	537849.5	NA	unfuzed stokes	24
PR-395	3284966	537797	NA	wire	5
PR-396	3284967.5	537802.5	NA	unfuzed stokes	12
PR-397	3284968	537772.5	NA	munitions debris	6
PR-398	3284968	537781.5	NA	munitions debris	6
PR-399	3284968.5	537792.5	NA	metal	6
PR-400	3284968.5	537848	NA	wire	12
PR-401	3284969.5	537808.5	NA	wire	6
PR-403	3284970	537742	NA	wire	6
PR-404	3284970	537750.5	NA	wire	2
PR-405	3284970	537776	NA	wire	4
PR-406	3284971	537783	NA	wire	6
PR-407	3284972	537839.5	NA	wire in concrete	24
PR-408	3284972.5	537749.5	NA	munitions debris	4
PR-409	3284972.5	537830	NA	unfuzed stokes	24
PR-410	3284973	537774.5	NA	wire	4
PR-411	3284973	537789.5	NA	munitions debris	4
PR-412	3284973.5	537763.5	NA	metal drum	3
PR-413	3284973.5	537771	NA	tin	8
PR-414	3284974	537738	NA	wire	6
PR-415	3284974	537794.5	NA	wire	6
PR-416	3284974.5	537842.5	NA	sign	24
PR-417	3284975	537734	NA	railroad spike	6
PR-418	3284975	537802	NA	wire	2
PR-419	3284975.5	537784	NA	wire	4
PR-420	3284976.5	537756	NA	wire	2
PR-421	3284977.5	537741	NA	bolt	4

**Table B.3
East Pasture UXO Investigation Phase 5 Dig Results**

Anomaly ID	Northing	Easting	mV	Description	Depth
PR-422	3284977.5	537750	NA	wire	4
PR-423	3284978.5	537784	NA	tin	5
PR-424	3284979	537734	NA	wire	3
PR-425	3284979	537746.5	NA	pipe wrench	2
PR-426	3284979.5	537769	NA	wire	3
PR-427	3284980	537787	NA	munitions debris	4
PR-428	3284980.5	537741.5	NA	bracket	6
PR-429	3284980.5	537780.5	NA	wire	3
PR-430	3284980.5	537783	NA	wire	20
PR-431	3284981	537836.5	NA	metal scrap	1
PR-432	3284981	537864.5	NA	wire	3
PR-433	3284981.5	537848	NA	horseshoe	20
PR-434	3284982	537735	NA	turnbuckle	6
PR-435	3284982	537779.5	NA	scrap	12
PR-436	3284982	537793	NA	culvert	NA
PR-438	3284984.5	537823.5	NA	no contact	NA
PR-439	3284984.5	537834.5	NA	unfuzed stokes	24
PR-440	3284985	537794	NA	culvert	NA
PR-441	3284985.5	537815	NA	rebar	6
PR-444	3284989.5	537768.5	NA	wire	8
PR-445	3284990	537763.5	NA	wire	6
PR-446	3284990.5	537810.5	NA	wire	6
PR-447	3284991.5	537743	NA	wire	6
PR-448	3284991.5	537751.5	NA	metal rod	3
PR-449	3284992	537781	NA	wire	6
PR-450	3284992	537824	NA	wire	-
PR-451	3284993	537737.5	NA	pipe in concrete	0
PR-452	3284993.5	537731.5	NA	wire	4
PR-453	3284993.5	537800	NA	wire	6
PR-454	3284993.5	537810.5	NA	wire	14
PR-455	3284993.5	537818.5	NA	stokes	24
PR-456	3284994	537835.5	NA	rebar	24
PR-457	3284994.5	537763	NA	bullet	3
PR-458	3284994.5	537782.5	NA	wire	3
PR-459	3284994.5	537813.5	NA	concrete with wire	12
PR-460	3284995	537773.5	NA	no contact	NA
PR-461	3284995.5	537765.5	NA	bullet	3
PR-462	3284995.5	537787	NA	wire	10
PR-463	3284995.5	537793	NA	horseshoe	10
PR-464	3284996	537745	NA	nail	3
PR-465	3284996	537755	NA	nail	3
PR-466	3284996.5	537789	NA	wire	6
PR-467	3284996.5	537810.5	NA	munitions debris	6
PR-468	3284996.5	537826.5	NA	wire	5
PR-469	3284997	537732.5	NA	wire	3
PR-470	3284997.5	537761	NA	wire	4
PR-471	3284997.5	537806	NA	no contact	NA
PR-472	3284998	537825.5	NA	wire	5
PR-473	3284999.5	537743	NA	bullet	3
PR-474	3284999.5	537747.5	NA	nail	6
PR-475	3284999.5	537793.5	NA	empty 75mm canister rod	8
PR-476	3284999.5	537801.5	NA	horseshoe	10
PR-477	3285000	537761.5	NA	wire	3
PR-478	3285001.5	537736.5	NA	wire	3
PR-479	3285001.5	537780.5	NA	no contact	NA
PR-480	3285001.5	537789	NA	horseshoe	6
PR-481	3285001.5	537810	NA	wire	6
PR-482	3285002	537755.5	NA	wire	3
PR-483	3285002	537765.5	NA	wire	3
PR-484	3285002.5	537746	NA	screw	0
PR-485	3285003	537762.5	NA	wire	0
PR-486	3285004.5	537753	NA	bullet	3
PR-487	3285004.5	537768.5	NA	bullet	3
PR-488	3285007	537773	NA	wire	0
PR-489	3284845.98	537872.98	NA	wire	6
PR-490	3284751.42	537937.79	NA	wire	6
PR-491	3284535.18	538032.22	NA	wire	2
PR-492	3284521.67	538033.84	NA	munitions debris	6
PR-493	3284527	538032.22	NA	no contact	NA
PR-494	3284373.33	538088.49	NA	illumination cartridge	1
PR-495	3284353.01	538098.65	NA	wire	4
PR-496	3284324.51	538111.16	NA	can	6
PR-497	3284300.09	538122.44	NA	wire	6
PR-498	3284313.48	538127.77	NA	no contact	NA
PR-499	3284376.5	538082.5	NA	wire	3
PR-500	3284603.5	538041	NA	wire	2
PR-501	3284606	538037.5	NA	railroad spike	18
PR-502	3284612	538038	NA	wire	4
PR-503	3284613	538041	NA	sign	NA
PR-504	3284618.5	538040	NA	wire	8
PR-505	3284623.5	538039.5	NA	banding	10
PR-506	3284631.5	538037.5	NA	wire	6
PR-507	3284702.5	537977	NA	wire	0
PR-508	3284704.5	537975.5	NA	wire	3
PR-509	3284705	537972.5	NA	tin	2
PR-510	3284707.5	537970.5	NA	munitions debris	4

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East Pasture UXO Investigation Phase 5 Dig Results**

Anomaly ID	Northing	Easting	mV	Description	Depth
PR-511	3284708.5	537972	NA	wire	3
PR-512	3284711.5	537970	NA	wire	3
PR-513	3284716	537963.5	NA	munitions debris	6
PR-514	3284718.5	537961	NA	munitions debris	0
PR-515	3284722.5	537964.5	NA	metal bucket	0
PR-516	3284724	537957	NA	munitions debris	3
PR-517	3284727	537952	NA	munitions debris	6
PR-518	3284736	537946.5	NA	munitions debris	8
PR-519	3284736	537953.5	NA	wire	6
PR-520	3284738	537949.5	NA	munitions debris	0
PR-521	3284739	537943.5	NA	munitions debris	6
PR-522	3284740	537948.5	NA	wire	0
PR-523	3284740.5	537960.5	NA	no contact	NA
PR-524	3284742.5	537945	NA	munitions debris	3
PR-525	3284745	537945	NA	wire	2
PR-526	3284748.5	537937.5	NA	munitions debris	4
PR-527	3284748.5	537940	NA	munitions debris	6
PR-528	3284750.5	537933.5	NA	munitions debris	6
PR-529	3284755.5	537931	NA	munitions debris	6
PR-530	3284759.5	537931.5	NA	same as 247	NA
PR-531	3284759.5	537947	NA	wire	0
PR-532	3284764	537920.5	NA	munitions debris	6
PR-533	3284765	537925.5	NA	munitions debris	3
PR-534	3284766	537936.5	NA	wire	3
PR-535	3284768.5	537920	NA	wire	2
PR-536	3284772.5	537913.5	NA	no contact	NA
PR-537	3284772.5	537934	NA	munitions debris	4
PR-538	3284773.5	537930	NA	no contact	NA
PR-539	3284775.5	537931	NA	no contact	NA
PR-540	3284779	537909.5	NA	munitions debris	4
PR-541	3284781	537927	NA	munitions debris	4
PR-542	3284784.5	537925	NA	munitions debris	4
PR-543	3284785	537909.5	NA	bolt	4
PR-544	3284786.5	537922.5	NA	wire	3
PR-545	3284794.5	537912	NA	nail	3
PR-546	3284795	537899	NA	munitions debris	6
PR-547	3284796.5	537894	NA	bullets	8
PR-548	3284800	537908.5	NA	munitions debris	6
PR-549	3284802.5	537907.5	NA	bullets	3
PR-550	3284808.5	537905.5	NA	munitions debris	6
PR-551	3284810	537900.5	NA	munitions debris	6
PR-552	3284812	537903	NA	same as 278	NA
PR-553	3284813	537900	NA	munitions debris	-
PR-554	3284814	537898	NA	wire	6
PR-555	3284815	537900	NA	wire	6
PR-556	3284817.5	537885.5	NA	wire	3
PR-557	3284818.5	537896.5	NA	same as 282	NA
PR-558	3284821.5	537877.5	NA	munitions debris	3
PR-559	3284821.5	537880	NA	wire	3
PR-560	3284823.5	537882	NA	same as 369	NA
PR-561	3284824.5	537877	NA	wire	6
PR-562	3284828	537875.5	NA	munitions debris	6
PR-563	3284828.5	537891	NA	wire	0
PR-564	3284831.5	537885.5	NA	wire	1
PR-565	3284833	537879	NA	wire	12
PR-566	3284835	537873	NA	wire	3
PR-567	3284837	537890.5	NA	wire	2
PR-568	3284838.5	537883.5	NA	wire	3
PR-569	3284839	537870.5	NA	wire	3
PR-570	3284839	537873	NA	wire	0
PR-571	3284841	537889	NA	wire	1
PR-572	3284842.5	537883.5	NA	wire	1
PR-573	3284847	537870.5	NA	wire	6
PR-574	3284858	537882	NA	nail	3
PR-575	3284858.5	537877	NA	no contact	NA
PR-576	3284871	537868	NA	wire	24
PR-577	3284907	537873.5	NA	munitions debris	2
PR-578	3284921	537870	NA	nail	-
PR-579	3284926.5	537868.5	NA	nail	2
PR-580	3284936	537866	NA	nail	2
PR-581	3284965.5	537855.5	NA	magnetic soil	24
PR-582	3284449.86	538074.18	NA	scrap	6
PR-583	3284474.62	538065.05	NA	wire	3
PR-584	3284487.82	538058.78	NA	munitions debris	4
PR-585	3284491.34	538058.23	NA	cable	24
PR-586	3284497.5	538053.28	NA	wire	6
PR-587	3284507.62	538052.95	NA	munitions debris	4
PR-588	3284510.26	538052.07	NA	can	24
PR-589	3284547.45	538041.06	NA	sign post	NA
PR-590	3284555.15	538038.97	NA	munitions debris	3
PR-591	3284563.41	538036.44	NA	munitions debris	2
PR-592	3284493.32	538054.71	NA	nail	3
PR-593	3284562.31	538040.4	NA	munitions debris	3
PR-594	3284564.29	538040.4	NA	munitions debris	3
PR-595	3284590.47	538037.87	NA	munitions debris	2
PR-596	3284599.6	538040.51	NA	metal rod	3

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Anomaly ID	Northing	Easting	mV	Description	Depth
PR-597	3284688.5	537986.38	NA	no contact	NA
PR-598	3284728.33	537978.46	NA	munitions debris	4
PR-599	3284729.98	537977.03	NA	no contact	NA
PR-600	3284716.45	537987.04	NA	no contact	NA
PR-601	3284728.11	537953.6	NA	munitions debris	3
PR-602	3284740.1	537967.02	NA	munitions debris	4
PR-603	3284752.86	537955.58	NA	munitions debris	0
PR-604	3284764.2	537946.34	NA	no contact	NA
PR-605	3284778.39	537935.66	NA	no contact	NA
PR-606	3284782.57	537931.37	NA	munitions debris	2
PR-607	3284800.5	537915.31	NA	nail	4
PR-608	3284805.56	537911.13	NA	bullets	12
PR-609	3284813.6	537904.97	NA	mule shoe	10
PR-610	3284849.46	537877.02	NA	in road	NA
PR-611	3284856.4	537875.48	NA	in road	NA
PR-612	3284861.13	537874.05	NA	in road	NA
PR-613	3284871.14	537882.96	NA	munitions debris	1
PR-614	3284876.86	537880.54	NA	no contact	NA
PR-615	3284878.51	537870.31	NA	in road	NA
PR-616	3284882.14	537869.87	NA	in road	NA
PR-617	3284897.43	537867.12	NA	in road	NA
PR-618	3284915.48	537864.48	NA	in road	NA
PR-619	3284962.35	537851.72	NA	rebar	16
PR-620	3284968.95	537850.62	NA	wire	6
PR-621	3284971.26	537852.05	NA	NR	NA
PR-623	3284968.18	537840.27	NA	in road	NA
PR-624	3284972.36	537835.43	NA	in road	NA
PR-625	3284980.5	537819.7	NA	under road	NA
PR-626	3284984.13	537736.08	NA	same as 525	NA
PR-627	3284957.51	537849.63	NA	NR	NA
PR-628	3284963.89	537868.55	NA	bolt	0
TN1-001	3284560.0	538486.5	NA	munitions debris	2
TN1-002	3284561.0	538475.5	NA	munitions debris	8
TN1-003	3284563.5	538484.5	NA	wire	3
TN1-004	3284564.5	538476.5	NA	nail	4
TN1-005	3284565.5	538485.5	NA	paint can	24
TN1-006	3284565.5	538490.5	NA	munitions debris	4
TN1-007	3284566.5	538471.0	NA	bolt	3
TN1-008	3284568.5	538477.5	NA	unfuzed stokes	18
TN1-009	3284569.0	538481.5	NA	munitions debris	6
TN1-010	3284569.0	538485.0	NA	wire	4
TN1-011	3284570.0	538492.5	NA	munitions debris	0
TN1-012	3284571.0	538471.5	NA	unfuzed stokes	6
TN1-013	3284571.0	538474.5	NA	munitions debris	6
TN1-014	3284571.0	538488.0	NA	munitions debris	6
TN1-015	3284572.5	538465.5	NA	bolt	3
TN1-016	3284575.0	538478.5	NA	munitions debris	6
TN1-017	3284575.0	538486.0	NA	munitions debris	8
TN1-018	3284575.0	538492.0	NA	munitions debris	0
TN1-019	3284576.5	538475.5	NA	munitions debris	3
TN1-020	3284577.0	538478.0	NA	munitions debris	6
TN1-021	3284577.5	538472.5	NA	can	6
TN1-022	3284580.0	538483.0	NA	wrench	2
TN1-023	3284581.0	538474.0	NA	metal can	8
TN1-024	3284581.5	538487.0	NA	pipe (left in ground)	24
TN1-025	3284583.0	538476.0	NA	munitions debris	18
TN1-026	3284583.0	538479.5	NA	munitions debris	8
TN1-027	3284584.0	538472.5	NA	wire	0
TN1-028	3284585.0	538484.0	NA	munitions debris	4
TN1-029	3284587.5	538475.5	NA	wire	3
TN1-030	3284590.0	538479.0	NA	scrap metal	6
TN1-031	3284591.0	538490.5	NA	rebar	6
TN1-032	3284591.5	538481.0	NA	scrap metal	6
TN1-033	3284592.0	538486.0	NA	wire	4
TN1-034	3284592.5	538473.0	NA	wire	0
TN1-035	3284593.5	538477.5	NA	nails	8
TN1-036	3284593.5	538484.0	NA	bottlecap	6
TN1-037	3284594.5	538486.0	NA	wire	6
TN1-038	3284595.5	538483.5	NA	munitions debris	8
TN1-039	3284595.5	538490.5	NA	munitions debris	6
TN1-040	3284596.5	538477.0	NA	tin scrap	20
TN1-041	3284596.5	538488.5	NA	wire	6
TN1-042	3284599.0	538479.5	NA	nail	6
TN1-043	3284599.0	538492.5	NA	munitions debris	6
TN1-044	3284600.0	538495.0	NA	iron rod	6
TN1-045	3284600.5	538498.5	NA	munitions debris	6
TN1-046	3284601.0	538485.5	NA	munitions debris	10
TN1-047	3284602.0	538488.5	NA	munitions debris	6
TN1-048	3284603.0	538495.5	NA	munitions debris	6
TN1-049	3284603.5	538491.5	NA	can	8
TN1-050	3284603.5	538498.5	NA	37mm munitions debris	6
TN1-051	3284604.0	538483.0	NA	metal bar	6
TN1-052	3284604.0	538488.0	NA	munitions debris	6
TN1-053	3284605.5	538493.0	NA	munitions debris	8
TN1-054	3284606.0	538496.5	NA	munitions debris	6
TN1-055	3284606.5	538505.5	NA	wire	4

**Table B.3
East Pasture UXO Investigation Phase 5 Dig Results**

Anomaly ID	Northing	Easting	mV	Description	Depth
TN1-056	3284607.0	538489.0	NA	munitions debris	3
TN1-057	3284608.0	538482.5	NA	munitions debris	8
TN1-058	3284608.5	538487.0	NA	munitions debris	5
TN1-059	3284608.5	538495.0	NA	wire	3
TN1-060	3284611.0	538499.5	NA	munitions debris	6
TN1-061	3284611.5	538485.5	NA	munitions debris	6
TN1-062	3284612.0	538506.5	NA	wire	6
TN1-063	3284613.5	538488.0	NA	munitions debris	6
TN1-064	3284613.5	538497.5	NA	munitions debris	3
TN1-065	3284613.5	538502.0	NA	munitions debris	3
TN1-066	3284614.0	538489.5	NA	munitions debris	0
TN1-067	3284615.5	538495.5	NA	munitions debris	3
TN1-068	3284615.5	538503.0	NA	munitions debris	6
TN1-069	3284618.5	538490.0	NA	munitions debris	12
TN1-070	3284618.5	538500.5	NA	wire	4
TN1-071	3284619.0	538497.5	NA	locking ring	3
TN1-072	3284620.5	538518.5	NA	munitions debris	8
TN1-073	3284621.0	538504.0	NA	munitions debris	8
TN1-074	3284621.5	538494.0	NA	wire	12
TN1-075	3284621.5	538496.0	NA	rebar	3
TN1-076	3284621.5	538508.0	NA	munitions debris	12
TN1-077	3284623.5	538518.0	NA	wire	8
TN1-078	3284624.0	538502.0	NA	munitions debris	0
TN1-079	3284624.5	538494.0	NA	fork	12
TN1-080	3284626.0	538497.0	NA	wire	4
TN1-081	3284626.0	538508.5	NA	75mm residue	12
TN1-082	3284626.5	538512.5	NA	wire	8
TN1-083	3284626.5	538520.5	NA	wire	8
TN1-084	3284629.5	538509.0	NA	munitions debris	3
TN1-085	3284629.5	538515.5	NA	nail	6
TN1-086	3284630.0	538521.5	NA	nail	10
TN1-088	3284631.0	538524.0	NA	wire	12
TN1-089	3284633.5	538526.0	NA	nail	6
TN1-090	3284638.0	538510.5	NA	munitions debris	0
TN1-091	3284638.0	538513.0	NA	munitions debris	6
TN1-092	3284638.0	538518.0	NA	wire	8
TN1-093	3284638.5	538521.5	NA	munitions debris	8
TN1-094	3284640.0	538506.0	NA	tin cans	24
TN1-095	3284640.5	538529.0	NA	munitions debris	4
TN1-096	3284641.5	538513.5	NA	tin cans	24
TN1-097	3284642.5	538525.5	NA	scrap metal	6
TN1-098	3284643.0	538522.0	NA	munitions debris	6
TN1-099	3284643.5	538504.5	NA	munitions debris	24
TN1-100	3284644.5	538509.0	NA	metal plate	8
TN1-101	3284645.0	538519.5	NA	wire (left in ground)	40
TN1-102	3284645.0	538528.0	NA	nail	6
TN1-103	3284645.5	538513.5	NA	nail	4
TN1-104	3284647.5	538516.0	NA	munitions debris	12
TN1-105	3284648.5	538522.5	NA	nail	6
TN1-106	3284649.5	538529.0	NA	wire	4
TN1-107	3284650.0	538509.0	NA	pipe	4
TN1-108	3284651.0	538521.5	NA	munitions debris	4
TN1-109	3284651.5	538525.5	NA	railroad spike	6
TN1-110	3284652.0	538532.5	NA	munitions debris	18
TN1-111	3284653.5	538520.5	NA	railroad spike	8
TN1-112	3284654.5	538529.5	NA	railroad spike	6
TN1-113	3284655.0	538511.5	NA	railroad spike	3
TN1-114	3284656.5	538531.5	NA	wire	3
TN1-115	3284657.0	538525.0	NA	munitions debris	4
TN1-116	3284658.5	538513.5	NA	railroad spike	3
TN1-117	3284660.0	538526.0	NA	munitions debris	3
TN1-118	3284660.0	538536.0	NA	munitions debris	4
TN1-119	3284661.5	538532.0	NA	munitions debris	6
TN1-120	3284664.5	538520.0	NA	scrap	3
TN1-121	3284665.0	538532.0	NA	munitions debris	24
TN1-122	3284665.5	538527.0	NA	munitions debris	3
TN1-123	3284668.0	538525.5	NA	munitions debris and spike	16
TN1-124	3284670.0	538526.0	NA	munitions debris	6
TN1-125	3284659.9	538520.7	NA	tin cans	24
TN2-001	3284666.6	538538.6	NA	unfuzed stokes	12
TN2-002	3284669.9	538536.8	NA	munitions debris	6
TN2-003	3284671.5	538532.4	NA	munitions debris	12
TN2-004	3284671.4	538527.4	NA	railroad spike	10
TN2-005	3284672.6	538522.0	NA	railroad spike	10
TN2-006	3284674.0	538522.4	NA	wire	10
TN2-007	3284672.7	538528.5	NA	railroad spike	10
TN2-008	3284678.7	538525.2	NA	wire	8
TN2-009	3284679.5	538528.4	NA	munitions debris	12
TN2-010	3284683.2	538527.7	NA	unfuzed 3" stokes	8
TN2-011	3284683.3	538532.1	NA	munitions debris	12
TN2-012	3284679.1	538532.1	NA	nails	6
TN2-013	3284674.9	538532.2	NA	railroad spike	12
TN2-014	3284676.9	538534.6	NA	railroad spike	12
TN2-015	3284678.7	538536.6	NA	railroad spike	12
TN2-016	3284680.8	538534.4	NA	nails	12
TN2-017	3284675.8	538527.3	NA	nail	6

**Table B.3
East Pasture UXO Investigation Phase 5 Dig Results**

Anomaly ID	Northing	Easting	mV	Description	Depth
TN2-018	3284683.4	538534.8	NA	stokes tail	12
TN2-019	3284681.4	538539.0	NA	railroad spike	10
TN2-020	3284685.3	538537.2	NA	munitions debris	10
TN2-022	3284688.3	538537.5	NA	munitions debris	0
TN2-023	3284691.5	538538.3	NA	munitions debris	8
TN2-024	3284694.5	538538.9	NA	munitions debris	12
TN2-025	3284699.5	538538.7	NA	trash pit	48
TN2-026	3284701.9	538543.7	NA	munitions debris	10
TN2-027	3284696.4	538544.0	NA	munitions debris	6
TN2-028	3284700.5	538546.3	NA	railroad spike	10
TN2-029	3284698.3	538546.3	NA	munitions debris	12
TN2-030	3284699.2	538547.4	NA	munitions debris	6
TN2-031	3284697.7	538553.5	NA	railroad spike	10
TN2-032	3284696.4	538551.0	NA	railroad spike	10
TN2-033	3284695.4	538550.5	NA	scrap metal	6
TN2-034	3284692.4	538549.3	NA	railroad spike	0
TN2-035	3284689.2	538548.6	NA	metal rod	6
TN2-036	3284686.3	538545.1	NA	metal rod	12
TN2-037	3284683.9	538542.1	NA	spike/nail/wire	6
TN2-038	3284686.5	538548.8	NA	munitions debris	6
TN2-039	3284681.5	538545.0	NA	spike	8
TN2-040	3284677.4	538541.7	NA	nail	0
TN2-041	3284675.5	538540.1	NA	munitions debris	10
TN2-042	3284674.3	538538.4	NA	munitions debris	10
TN2-043	3284673.5	538539.8	NA	munitions debris	6
TN2-044	3284690.6	538542.8	NA	munitions debris	6
TN2-045	3284692.5	538546.3	NA	wire	6
TN2-046	3284697.5	538544.9	NA	munitions debris	12
TN2-047	3284667.8	538534.2	NA	munitions debris	12
TN2-048	3284690.0	538533.1	NA	munitions debris	10
TN2-049	3284697.0	538556.5	NA	munitions debris	12
TN2-050	3284699.4	538550.0	NA	wire	6
TN2-051	3284697.8	538537.1	NA	munitions debris	6
TN2-052	3284693.9	538537.2	NA	munitions debris	10
TN2-053	3284687.0	538530.0	NA	tin	10
TA-043	3284839.38	538363.38	NA	munitions debris	2
TA-052	3284842.50	538365.00	NA	munitions debris	0
TA-056	3284828.00	538366.00	NA	munitions debris	4
TA-058	3284835.50	538367.83	NA	munitions debris	2
TA-063	3284809.00	538369.00	NA	munitions debris	2
TA-065	3284833.00	538369.00	NA	reinforcing rod	2
TA-066	3284840.50	538369.00	NA	munitions debris	2
TA-067	3284739.00	538369.50	NA	munitions debris	2
TA-070	3284844.75	538372.00	NA	munitions debris	0
TA-072	3284795.50	538371.50	NA	munitions debris	10
TA-073	3284827.50	538371.50	NA	pipe in concrete	6
TA-080	3284777.33	538374.50	NA	munitions debris	6
TA-083	3284805.50	538374.00	NA	ammo can lid	8
TA-086	3284785.83	538375.50	NA	munitions debris	4
TA-087	3284832.50	538374.50	NA	munitions debris	4
TA-088	3284847.50	538374.50	NA	munitions debris	0
TA-089	3284791.67	538375.83	NA	munitions debris	2
TA-090	3284812.25	538376.25	NA	munitions debris	4
TA-091	3284819.00	538375.50	NA	munitions debris	10
TA-092	3284797.75	538377.63	NA	munitions debris	2
TA-093	3284845.00	538377.25	NA	munitions debris	2
TA-095	3284768.00	538376.50	NA	munitions debris	6
TA-098	3284825.50	538377.50	NA	rebar	2
TA-100	3284778.25	538378.25	NA	munitions debris	6
TA-101	3284751.50	538379.33	NA	munitions debris	8
TA-102	3284834.75	538380.25	NA	nails	4
TA-104	3284814.00	538379.00	NA	munitions debris	6
TA-105	3284775.00	538379.50	NA	munitions debris	2
TA-107	3284760.00	538380.83	NA	nails	4
TA-108	3284781.75	538381.50	NA	munitions debris	6
TA-109	3284822.17	538382.00	NA	rebar	6
TA-111	3284802.83	538382.00	NA	munitions debris	2
TA-113	3284755.00	538381.00	NA	munitions debris	2
TA-114	3284769.00	538381.00	NA	munitions debris	2
TA-115	3284794.00	538381.00	NA	munitions debris	8
TA-116	3284842.50	538382.33	NA	munitions debris	0
TA-120	3284736.00	538382.00	NA	munitions debris	10
TA-121	3284765.00	538382.00	NA	munitions debris	2
TA-123	3284788.17	538384.17	NA	munitions debris	6
TA-124	3284810.50	538383.00	NA	munitions debris/trashpit	8
TA-125	3284816.17	538384.67	NA	machine gun ammo clip	8
TA-126	3284673.25	538384.50	NA	munitions debris	10
TA-127	3284743.38	538385.50	NA	munitions debris	10
TA-130	3284757.00	538384.50	NA	munitions debris	6
TA-133	3284722.50	538385.00	NA	bolt	6
TA-134	3284771.50	538385.00	NA	rebar	4
TA-135	3284838.75	538386.50	NA	nails	6
TA-136	3284803.50	538385.50	NA	nails	6
TA-137	3284733.00	538387.75	NA	munitions debris	2
TA-138	3284782.50	538386.00	NA	munitions debris	8
TA-139	3284791.50	538386.00	NA	munitions debris	6

Table B.3
East Pasture UXO Investigation Phase 5 Dig Results

Anomaly ID	Northing	Easting	mV	Description	Depth
TA-141	3284763.50	538386.75	NA	munitions debris	6
TA-143	3284748.00	538387.00	NA	munitions debris	10
TA-144	3284777.50	538387.00	NA	munitions debris	6
TA-145	3284799.25	538388.00	NA	munitions debris	6
TA-146	3284823.50	538388.25	NA	munitions debris	6
TA-147	3284714.00	538387.50	NA	munitions debris	4
TA-148	3284739.00	538388.00	NA	wire	8
TA-149	3284753.50	538388.00	NA	WWI bomb fins	12
TA-150	3284809.00	538388.50	NA	munitions debris	8
TA-151	3284719.50	538390.67	NA	nail	0
TA-153	3284773.00	538389.50	NA	munitions debris	10
TA-154	3284788.00	538389.75	NA	munitions debris	2
TA-156	3284724.50	538390.50	NA	munitions debris	4
TA-157	3284781.00	538390.00	NA	munitions debris	6
TA-158	3284796.25	538391.00	NA	munitions debris	6
TA-160	3284691.75	538390.75	NA	munitions debris	0
TA-161	3284766.50	538392.00	NA	munitions debris	2
TA-162	3284815.00	538391.50	NA	munitions debris	4
TA-164	3284730.00	538391.00	NA	mortar fins	6
TA-165	3284833.25	538391.00	NA	reinforced wire	6
TA-166	3284837.50	538391.00	NA	booster	10
TA-168	3284710.50	538392.00	NA	munitions debris	8
TA-172	3284738.00	538392.50	NA	munitions debris	6
TA-175	3284754.50	538393.50	NA	fence post	10
TA-178	3284681.50	538394.00	NA	munitions debris	2
TA-179	3284699.00	538394.00	NA	munitions debris	6
TA-180	3284763.00	538394.00	NA	munitions debris	6
TA-181	3284721.75	538395.00	NA	munitions debris	0
TA-182	3284743.25	538396.00	NA	munitions debris	8
TA-184	3284676.50	538396.50	NA	munitions debris	8
TA-185	3284712.00	538395.75	NA	munitions debris	6
TA-186	3284783.67	538397.17	NA	munitions debris	2
TA-191	3284688.50	538397.00	NA	munitions debris	6
TA-192	3284694.00	538396.00	NA	munitions debris	6
TA-195	3284733.67	538397.17	NA	sheet metal/rusted can/munitions debris	10
TA-196	3284748.00	538396.50	NA	munitions debris	8
TA-197	3284777.17	538398.50	NA	munitions debris/nail	6
TA-201	3284671.50	538397.50	NA	munitions debris	0
TA-202	3284705.50	538397.50	NA	munitions debris	2
TA-204	3284718.00	538398.25	NA	munitions debris	6
TA-208	3284682.00	538398.50	NA	munitions debris	2
TA-210	3284611.17	538401.67	NA	munitions debris	6
TA-211	3284698.00	538400.75	NA	munitions debris	0
TA-212	3284710.25	538401.25	NA	iron bar	8
TA-215	3284725.50	538401.50	NA	munitions debris	4
TA-216	3284813.00	538400.00	NA	munitions debris	4
TA-218	3284766.75	538401.50	NA	munitions debris	2
TA-220	3284676.25	538401.25	NA	munitions debris	8
TA-221	3284729.50	538401.00	NA	munitions debris	10
TA-222	3284744.75	538402.25	NA	munitions debris	15
TA-223	3284772.00	538401.00	NA	munitions debris	6
TA-224	3284626.17	538403.50	NA	munitions debris	6
TA-225	3284641.50	538402.50	NA	munitions debris	6
TA-226	3284718.38	538403.38	NA	munitions debris	4
TA-227	3284752.50	538401.50	NA	munitions debris	6
TA-232	3284671.50	538403.50	NA	munitions debris	6
TA-233	3284648.00	538403.75	NA	munitions debris	8
TA-234	3284653.50	538403.25	NA	fuel cap	6
TA-235	3284664.50	538403.00	NA	munitions debris	6
TA-236	3284682.00	538404.00	NA	munitions debris	2
TA-237	3284738.50	538403.00	NA	munitions debris	8
TA-239	3284659.50	538403.50	NA	nails	4
TA-240	3284713.50	538405.00	NA	munitions debris	2
TA-241	3284615.25	538405.50	NA	munitions debris	6
TA-242	3284623.00	538405.00	NA	munitions debris	8
TA-243	3284694.00	538404.50	NA	ammo can	12
TA-249	3284744.00	538405.50	NA	munitions debris	6
TA-252	3284606.75	538406.75	NA	munitions debris	2
TA-255	3284593.50	538406.50	NA	iron bar	12
TA-256	3284649.50	538406.50	NA	nails	6
TA-257	3284656.50	538407.75	NA	munitions debris	6
TA-258	3284686.00	538406.50	NA	wire	8
TA-259	3284703.00	538406.50	NA	munitions debris	10
TA-262	3284584.00	538408.50	NA	munitions debris	10
TA-263	3284627.50	538407.25	NA	munitions debris	10
TA-265	3284640.00	538407.50	NA	nails	6
TA-268	3284673.75	538408.50	NA	munitions debris	8
TA-269	3284679.00	538408.75	NA	munitions debris	8
TA-275	3284612.75	538410.25	NA	munitions debris	4
TA-276	3284645.00	538409.00	NA	munitions debris	6
TA-277	3284689.50	538409.00	NA	munitions debris	2
TA-281	3284632.00	538411.25	NA	munitions debris	6
TA-282	3284617.00	538411.25	NA	horseshoe	10
TA-283	3284668.17	538411.00	NA	munitions debris	2
TA-285	3284588.00	538412.50	NA	munitions debris	8
TA-293	3284577.13	538412.75	NA	tin can	12

**Table B.3
East Pasture UXO Investigation Phase 5 Dig Results**

Anomaly ID	Northing	Easting	mV	Description	Depth
TA-294	3284596.00	538412.00	NA	rod	6
TA-296	3284624.00	538413.83	NA	munitions debris	8
TA-299	3284583.00	538413.00	NA	rod	10
TA-300	3284640.00	538413.00	NA	munitions debris	10
TA-301	3284662.50	538413.00	NA	munitions debris	6
TA-304	3284605.00	538413.50	NA	munitions debris	10
TA-305	3284635.00	538415.33	NA	munitions debris	10
TA-306	3284666.50	538413.50	NA	munitions debris	0
TA-309	3284565.25	538415.25	NA	munitions debris	2
TA-310	3284652.50	538414.00	NA	iron pipe with wiring assembly	24
TA-317	3284610.17	538416.67	NA	munitions debris	2
TA-323	3284594.00	538417.00	NA	rail spike	10
TA-324	3284628.25	538417.25	NA	nails	10
TA-327	3284578.00	538418.25	NA	no contact	NA
TA-328	3284587.75	538418.75	NA	rod	8
TA-334	3284615.00	538418.50	NA	munitions debris	10
TA-339	3284583.50	538419.50	NA	heavy metal rail	10
TA-344	3284603.75	538420.75	NA	munitions debris	6
TA-347	3284593.75	538421.25	NA	munitions debris	8
TA-348	3284623.50	538420.50	NA	weapon cleaning rod	6
TA-350	3284610.25	538422.75	NA	munitions debris	2
TA-357	3284577.00	538424.25	NA	37mm AP-T	12
TA-360	3284596.50	538424.00	NA	rail spike	12
TA-363	3284603.25	538426.00	NA	cigar can	12
TA-366	3284591.00	538426.25	NA	wire	8
TA-373	3284584.17	538427.17	NA	rail spike	10
TA-374	3284613.50	538426.50	NA	munitions debris	10
TA-380	3284607.50	538427.50	NA	screwdriver	0
TA-382	3284573.50	538428.75	NA	munitions debris	10
TA-402	3284577.00	538432.50	NA	screw	0
TA-411	3284615.25	538434.25	NA	munitions debris	2
TA-424	3284618.00	538438.00	NA	munitions debris	2
TA-427	3284612.50	538439.00	NA	munitions debris	2
TA-432	3284606.50	538440.00	NA	munitions debris	0
TA-442	3284611.50	538443.25	NA	munitions debris (60mm tail)	10
TA-444	3284588.75	538445.00	NA	bolt	6
TA-449	3284603.00	538446.00	NA	rail spike	6
TA-455	3284595.50	538447.50	NA	nail	6
TA-456	3284611.33	538448.67	NA	munitions debris	6
TA-459	3284615.50	538448.00	NA	0.30 caliber cartridge	10
TA-462	3284581.50	538449.00	NA	clip	8
TA-464	3284619.00	538450.00	NA	munitions debris (60mm tail and fuze)	8
TA-465	3284591.00	538450.50	NA	under dirt pile	NA
TA-467	3284586.00	538451.00	NA	nail	8
TA-468	3284598.25	538452.00	NA	ammo clip	6
TA-469	3284603.75	538451.75	NA	munitions debris	6
TA-472	3284607.25	538453.25	NA	rail spike	10
TA-474	3284582.50	538455.00	NA	chain	12
TA-478	3284618.50	538454.00	NA	munitions debris (60mm tail)	10
TA-479	3284595.00	538455.75	NA	munitions debris	2
TA-480	3284587.00	538455.00	NA	nail	0
TA-483	3284602.00	538455.50	NA	nail	6
TA-486	3284607.50	538458.25	NA	munitions debris	2
TA-487	3284598.50	538458.50	NA	munitions debris	2
TA-488	3284618.25	538459.50	NA	munitions debris	8
TA-489	3284578.00	538460.00	NA	metal cap	10
TA-490	3284589.50	538460.00	NA	metal can	36
TA-493	3284623.33	538462.67	NA	munitions debris	10
TA-494	3284608.75	538462.50	NA	munitions debris	10
TA-495	3284603.00	538462.00	NA	munitions debris	2
TA-496	3284619.50	538463.00	NA	munitions debris	2
TA-497	3284585.50	538464.00	NA	nail	10
TA-498	3284613.50	538465.00	NA	iron bar	24
TA-499	3284579.00	538465.50	NA	munitions debris	10
TA-500	3284607.50	538465.50	NA	no contact	NA
TA-501	3284596.00	538467.50	NA	metal bar	48
TA-502	3284588.00	538468.00	NA	chain	12
TA-503	3284599.75	538469.50	NA	munitions debris	0
TA-504	3284603.50	538471.50	NA	munitions debris	2
TA-505	3284596.50	538472.50	NA	munitions debris	6
TA-506	3284592.50	538473.00	NA	munitions debris	2
SEP-001	3284493	538455.5	NA	munitions debris	10
SEP-002	3284498.5	538457.5	NA	no contact	NA
SEP-003	3284505.5	538458.5	NA	stokes and trash	30
SEP-004	3284509.5	538462.5	NA	tin can	8
SEP-005	3284510	538455.5	NA	nails	3
SEP-006	3284510.5	538457.5	NA	no contact	NA
SEP-007	3284510.5	538464	NA	nails	-
SEP-008	3284513.5	538459.5	NA	nails	8
SEP-009	3284517.5	538455.5	NA	no contact	NA
SEP-010	3284519	538458.5	NA	wire	6
SEP-011	3284519	538464.5	NA	wire	6
SEP-012	3284523.5	538465.5	NA	munitions debris	0
SEP-013	3284523.5	538469	NA	munitions debris	3
SEP-014	3284524.5	538460	NA	no contact	NA
SEP-015	3284526.5	538467	NA	no contact	NA

**Table B.3
East Pasture UXO Investigation Phase 5 Dig Results**

Anomaly ID	Northing	Easting	mV	Description	Depth
SEP-016	3284527	538454.5	NA	no contact	NA
SEP-017	3284527	538458.5	NA	utility area	NA
SEP-018	3284529	538465	NA	wire	12
SEP-019	3284529.5	538456.5	NA	utility area	NA
SEP-020	3284530	538470	NA	nails	12
SEP-021	3284531.5	538467	NA	nails	12
SEP-022	3284536	538468	NA	nails	12
SEP-023	3284536.5	538461.5	NA	no contact	NA
SEP-024	3284541	538477	NA	wire	6
SEP-025	3284543.5	538468.5	NA	utility area	NA
SEP-026	3284545.5	538469.5	NA	utility area	NA
SEP-027	3284546	538477.5	NA	utility area	NA
SEP-028	3284550	538476.5	NA	trash pit	30
SEP-029	3284501.8	538456.74	NA	utility area	NA
SEP-030	3284537.89	538465.71	NA	trash can and nails	24
RD-001	3284789.24	537712.05	4.8	no contact	-
RD-002	3284796.51	537712.55	4.2	no contact	-
RD-003	3284797.60	537711.05	5.7	wire	6
RD-004	3284798.60	537717.07	7.2	wire	3
RD-005	3284801.11	537715.65	11.1	no contact	-
RD-006	3284803.46	537710.13	13.5	pipe	8
RD-007	3284797.52	537691.05	63.1	wire	18
RD-008	3284811.07	537686.37	4.8	wire	6
RD-009	3284821.02	537711.63	12.6	wire	4
RD-010	3284819.52	537701.18	67	under pavement	-
RD-011	3284821.27	537696.91	73	rebar w/ concrete	24
RD-012	3284828.80	537705.44	19.3	chain	6
RD-013	3284836.16	537709.04	47.9	wire loop	4
RD-014	3284840.09	537710.13	5.2	no contact	-
RD-015	3284829.22	537692.98	6.8	wire	24
RD-016	3284832.15	537695.82	9.6	horseshoe	6
RD-017	3284835.33	537695.82	6.7	wire	2
RD-018	3284839.93	537690.64	21	horseshoe	6
RD-019	3284841.01	537695.99	5.4	too small to locate	-
RD-020	3284844.86	537690.55	7.1	no contact	-
RD-021	3284850.22	537692.23	22.1	wire loop	12
RD-022	3284853.73	537696.74	7.3	no contact	-
RD-023	3284850.72	537704.10	21.4	bolt	6
RD-024	3284866.44	537698.67	34.7	under pavement	-
RD-025	3284862.26	537697.33	16.6	wire and concrete	24
RD-026	3284869.96	537690.97	5.1	wire	6
RD-027	3284871.88	537693.15	4.4	no contact	-
RD-028	3284881.58	537703.52	9.7	bolt	8
RD-029	3284886.02	537698.08	4.7	under pavement	-
RD-030	3284888.94	537699.75	15.3	under pavement	-
RD-031	3284887.44	537692.89	5.9	wire	8
RD-032	3284892.12	537691.05	28.6	bolt	6
RD-033	3284897.23	537695.32	17.2	road sign	-
RD-034	3284901.32	537691.22	5.3	wire	
RD-035	3284900.74	537697.83	9.1	under pavement	-
RD-036	3284895.97	537706.95	5.1	no contact	-
RD-037	3284909.52	537701.85	4.7	under pavement	-
RD-038	3284908.44	537697.83	5.5	under pavement	-
RD-039	3284911.11	537697.83	13.2	under pavement	-
RD-040	3284911.78	537694.65	13	bolt	6
RD-041	3284913.87	537695.07	6	munitions debris	4
RD-042	3284914.63	537696.99	10.8	no contact	-
RD-043	3284922.15	537707.11	25.6	wire	36
RD-044	3284926.92	537703.52	12.9	no contact/edge of pavement	
RD-045	3284928.59	537699.84	12.8	under pavement	-
RD-046	3284927.84	537698.08	8.3	under pavement	-
RD-047	3284926.09	537692.56	35.2	bolt	8
RD-048	3284934.87	537691.72	48.6	no contact	-
RD-049	3284938.30	537692.39	4.4	pick axe tool	24
RD-050	3284937.13	537697.08	4.1	under pavement	-
RD-051	3284929.93	537709.62	11.8	roll	8
RD-052	3284935.70	537709.88	16.4	wire	18
RD-053	3284941.06	537708.54	5.9	wire	4
RD-054	3284940.31	537706.28	11.3	metal brace	6
RD-055	3284941.56	537699.34	20	under pavement	-
RD-056	3284943.65	537695.74	12.8	bolt	12
RD-057	3284953.35	537696.66	10.3	wire	12
RD-058	3284956.11	537699.42	12.4	under pavement	-
RD-059	3284960.46	537697.91	13.2	under pavement	-
RD-060	3284960.72	537691.81	13.8	no contact	-
RD-061	3284959.54	537708.96	5.5	wire	0
RD-062	3284963.64	537702.60	3.6	under pavement	-
RD-063	3284965.65	537695.99	6.8	bolt	24
RD-064	3284966.15	537691.47	4.2	bolt	24
RD-065	3284970.75	537694.99	5.2	bolt	24
RD-066	3284970.34	537700.00	6.5	under pavement	-
RD-067	3284973.85	537699.50	23.4	under pavement	-
RD-068	3284976.02	537697.75	6.1	under pavement	-
RD-069	3284978.45	537700.00	8.4	under pavement	-
RD-070	3284980.79	537699.75	6.7	under pavement	-
RD-071	3284974.85	537706.70	8.3	wire	24

**Table B.3
East Pasture UXO Investigation Phase 5 Dig Results**

Anomaly ID	Northing	Easting	mV	Description	Depth
RD-072	3284970.84	537709.79	4.1	no contact	-
RD-073	3284977.03	537710.38	33.8	wire	18
RD-074	3284983.30	537709.29	7.1	culvert marker	-
RD-075	3284989.66	537708.96	9.1	culvert marker	-
RD-076	3284988.91	537704.35	8.3	under pavement	-
RD-077	3284982.88	537693.98	8.6	wire	-
RD-078	3284987.57	537698.08	8.6	under pavement	-
RD-079	3284992.84	537699.42	6.6	under pavement	-
RD-080	3284997.10	537692.14	31.5	metal rod	1
RD-081	3284999.78	537698.00	13.5	under pavement	-
RD-082	3284995.01	537710.71	19.5	wire	6
RD-083	3284997.86	537710.88	8.7	no contact	-
RD-084	3285000.37	537708.45	4	no contact	-
RD-085	3285005.05	537701.51	10.5	under pavement	-
RD-086	3285005.64	537697.83	3.4	under pavement	-
RD-087	3285009.15	537700.34	10.1	under pavement	-
RD-088	3285011.66	537696.49	4.5	under pavement	-
RD-089	3285017.01	537707.45	4.8	no contact	-
RD-090	3285018.85	537710.54	3.8	no contact	-
RD-091	3285032.49	537707.45	4.4	no contact	-
RD-092	3285034.83	537699.59	5.6	under pavement	-
RD-093	3285032.24	537695.57	14.4	small wire	22
RD-094	3285038.17	537707.37	5.6	no contact	-
RD-095	3285040.18	537709.46	15.5	wire	0
RD-096	3285055.82	537709.96	11.5	wire	18
RD-097	3285054.99	537706.86	4.3	no contact	-
RD-098	3285054.74	537692.14	4.3	nail	6
RD-099	3285057.25	537693.40	3.2	nail	8
RD-100	3285068.37	537694.23	4.7	wire	6
RD-101	3285068.20	537708.37	24.5	wire and horseshoe	0, 6
RD-102	3285064.52	537710.29	9.1	wire	12

**Table B.4
East Pasture UXO Investigation Phase 6 Dig Results**

Anomaly ID	Northing	Easting	mV	Description	Depth
P-001	3284485.50	538404.50	NA	magnet	3
P-002	3284486.50	538407.00	NA	no contact	-
P-003	3284486.50	538410.50	NA	no contact	-
P-004	3284488.00	538415.00	NA	screw	1
P-005	3284490.00	538404.00	NA	no contact	-
P-006	3284490.50	538411.50	NA	wire and nail	0
P-007	3284492.50	538411.00	NA	conduit and munitions debris	0, 1
P-008	3284492.50	538419.50	NA	no contact	-
P-009	3284494.00	538426.00	NA	rebar and nail	0, 1
P-010	3284494.50	538416.50	NA	rod and munitions debris	0, 2
P-011	3284495.00	538407.50	NA	munitions debris	4
P-012	3284495.50	538402.50	NA	munitions debris	3
P-013	3284495.50	538420.00	NA	munitions debris	2
P-014	3284497.00	538426.50	NA	munitions debris	2
P-015	3284497.50	538410.00	NA	munitions debris	2
P-016	3284498.50	538400.00	NA	munitions debris	3
P-017	3284500.00	538401.00	NA	3 metal rods	8
P-018	3284500.00	538413.50	NA	munitions debris	2
P-019	3284500.00	538425.50	NA	munitions debris	1
P-020	3284500.00	538430.50	NA	munitions debris	2
P-021	3284501.00	538410.50	NA	no contact	-
P-022	3284502.00	538420.50	NA	wire	3
P-023	3284502.50	538402.50	NA	munitions debris	2
P-024	3284502.50	538408.00	NA	munitions debris	3
P-025	3284504.00	538397.50	NA	munitions debris	2
P-026	3284504.00	538411.00	NA	munitions debris	2
P-027	3284504.00	538414.50	NA	no contact	-
P-028	3284504.00	538418.50	NA	munitions debris	2
P-029	3284505.00	538436.00	NA	nail	2
P-030	3284505.50	538399.00	NA	munitions debris	0
P-031	3284505.50	538433.00	NA	no contact	-
P-032	3284506.00	538403.00	NA	no contact	-
P-033	3284506.00	538423.50	NA	no contact	-
P-034	3284506.50	538409.50	NA	wire	2
P-035	3284506.50	538431.00	NA	no contact	-
P-036	3284507.00	538420.50	NA	no contact	-
P-037	3284507.50	538434.50	NA	munitions debris	3
P-038	3284508.00	538403.50	NA	no contact	-
P-039	3284510.00	538393.00	NA	nail	1
P-040	3284510.00	538420.00	NA	no contact	-
P-041	3284510.50	538409.50	NA	2 munitions debris shards	0
P-042	3284510.50	538434.00	NA	munitions debris	4
P-043	3284511.00	538403.00	NA	munitions debris	2
P-044	3284511.00	538418.00	NA	munitions debris	3
P-045	3284511.50	538429.50	NA	no contact	-
P-046	3284512.50	538393.00	NA	no contact	-
P-047	3284512.50	538406.00	NA	no contact	-
P-048	3284513.00	538438.50	NA	no contact	-
P-049	3284513.50	538426.50	NA	munitions debris	6
P-050	3284514.00	538402.00	NA	munitions debris	2
P-051	3284514.00	538421.50	NA	munitions debris	4
P-052	3284514.00	538431.50	NA	no contact	-
P-053	3284514.50	538405.50	NA	no contact	-
P-054	3284514.50	538409.00	NA	munitions debris	3
P-055	3284515.00	538401.00	NA	no contact	-
P-056	3284515.50	538394.50	NA	no contact	-
P-057	3284516.00	538423.00	NA	no contact	-
P-058	3284516.50	538436.00	NA	no contact	-
P-059	3284517.50	538407.50	NA	wire	2
P-060	3284517.50	538434.00	NA	munitions debris	6
P-061	3284518.50	538392.50	NA	munitions debris	3
P-062	3284518.50	538417.50	NA	no contact	-
P-063	3284518.50	538438.00	NA	no contact	-
P-064	3284519.00	538405.00	NA	magnet	6
P-065	3284520.00	538430.00	NA	1/2 of a horseshoe	4
P-066	3284521.00	538394.50	NA	munitions debris	4
P-067	3284521.00	538418.50	NA	no contact	-
P-068	3284521.00	538440.50	NA	no contact	-
P-069	3284521.50	538427.50	NA	piece of magnet	8
P-070	3284522.00	538436.00	NA	magnet	4
P-071	3284523.50	538425.50	NA	no contact	-
P-072	3284524.00	538399.50	NA	munitions debris	9
P-073	3284524.00	538409.00	NA	no contact	-
P-074	3284524.00	538423.00	NA	no contact	-
P-075	3284524.50	538405.50	NA	no contact	-
P-076	3284524.50	538431.50	NA	munitions debris	6
P-077	3284525.00	538421.50	NA	no contact	-
P-078	3284526.00	538416.50	NA	no contact	-
P-079	3284526.50	538408.00	NA	no contact	-
P-080	3284527.50	538428.50	NA	no contact	-
P-081	3284528.00	538411.50	NA	no contact	-
P-082	3284528.50	538388.00	NA	munitions debris	3
P-083	3284528.50	538404.00	NA	no contact	-
P-084	3284528.50	538424.50	NA	no contact	-
P-085	3284529.00	538425.50	NA	no contact	-
P-086	3284529.00	538436.00	NA	no contact	-

Table B.4
East Pasture UXO Investigation Phase 6 Dig Results

Anomaly ID	Northing	Easting	mV	Description	Depth
P-087	3284529.50	538414.00	NA	no contact	-
P-088	3284530.00	538397.50	NA	munitions debris	2
P-089	3284530.50	538405.50	NA	no contact	-
P-090	3284532.00	538400.50	NA	no contact	-
P-091	3284532.50	538391.50	NA	munitions debris	0
P-092	3284532.50	538414.50	NA	nail	4
P-093	3284532.50	538419.50	NA	no contact	-
P-094	3284532.50	538432.00	NA	no contact	-
P-095	3284534.50	538410.50	NA	munitions debris	2
P-096	3284535.00	538416.00	NA	munitions debris	2
P-097	3284535.00	538423.50	NA	no contact	-
P-098	3284535.50	538407.00	NA	no contact	-
P-099	3284536.00	538390.00	NA	bolt	4
P-100	3284536.00	538427.50	NA	no contact	-
P-101	3284537.00	538386.00	NA	munitions debris	6
P-102	3284537.00	538401.50	NA	munitions debris	3
P-103	3284537.50	538397.00	NA	no contact	-
P-104	3284538.00	538391.00	NA	no contact	-
P-105	3284538.50	538418.00	NA	no contact	-
P-106	3284539.00	538403.50	NA	munitions debris	2
P-107	3284539.50	538383.50	NA	munitions debris	3
P-108	3284539.50	538411.50	NA	munitions debris	12
P-109	3284542.00	538390.00	NA	no contact	-
P-110	3284542.00	538397.00	NA	munitions debris	3
P-111	3284542.50	538383.50	NA	munitions debris	4
P-112	3284543.00	538394.00	NA	pipe	2
P-113	3284543.50	538404.00	NA	no contact	-
P-114	3284544.00	538396.00	NA	munitions debris	3
P-115	3284544.50	538399.00	NA	no contact	-
P-116	3284546.50	538381.50	NA	no contact	-
P-117	3284547.50	538384.50	NA	no contact	-
P-118	3284547.50	538396.00	NA	munitions debris	3
P-119	3284548.00	538393.00	NA	munitions debris	3
P-120	3284534.89	538396.40	NA	no contact	-
P-121	3284514.10	538411.29	NA	no contact	-
P-122	3284499.21	538404.25	NA	no contact	-
P-123	3284518.20	538428.81	NA	no contact	-
TN-001	3284675.10	538518.40	NA	munitions debris	6
TN-002	3284675.90	538519.50	NA	munitions debris	6
TN-003	3284680.30	538516.90	NA	munitions debris	6
TN-004	3284680.30	538519.20	NA	wire	0
TN-005	3284682.30	538518.20	NA	munitions debris	1
TN-006	3284683.50	538523.40	NA	munitions debris assembly	3
TN-007	3284685.50	538523.80	NA	wire	0
TN-008	3284685.60	538519.20	NA	munitions debris	6
TN-009	3284687.50	538524.00	NA	munitions debris	6
TN-010	3284686.70	538525.60	NA	no contact	-
TN-011	3284688.40	538527.70	NA	munitions debris	0
TN-012	3284689.20	538529.40	NA	munitions debris	0
TN-013	3284690.20	538525.50	NA	munitions debris	0
TN-014	3284691.60	538530.40	NA	munitions debris	0
TN-015	3284692.60	538528.50	NA	wire	0
TN-016	3284695.30	538530.00	NA	wire	6
TN-017	3284694.70	538528.80	NA	wire	8
TN-018	3284696.00	538524.80	NA	horseshoe	6
TN-019	3284697.90	538527.10	NA	no contact	-
TN-020	3284699.10	538526.00	NA	munitions debris	6
TN-021	3284701.40	538532.70	NA	no contact	-
TN-022	3284702.70	538534.10	NA	munitions debris	6
TN-023	3284704.80	538529.90	NA	bolt	6
TN-024	3284706.00	538528.90	NA	munitions debris	2
TN-025	3284709.80	538528.30	NA	bolt	6
TN-026	3284712.10	538521.80	NA	munitions debris	6
TN-027	3284711.20	538520.80	NA	munitions debris	2
TN-028	3284707.60	538522.70	NA	munitions debris	3
TN-029	3284707.80	538520.80	NA	banding strap piece	6
TN-030	3284707.00	538519.80	NA	railroad tie plate	6
TN-031	3284704.40	538521.40	NA	railroad tie plate	6
TN-032	3284703.30	538523.40	NA	nail	3
TN-033	3284700.00	538520.50	NA	railroad tie plate	6
TN-034	3284697.20	538517.70	NA	trash pit including 14 bolts (3/4x6") and railroad track hardware	24
TN-035	3284695.00	538519.10	NA	trash pit including 14 bolts (3/4x6") and railroad track hardware	24
TN-036	3284694.60	538522.10	NA	piece railroad track	6
TN-037	3284690.20	538519.10	NA	wire	24
TN-038	3284688.60	538517.40	NA	wire	3
TN-039	3284686.80	538515.70	NA	munitions debris	6
TN-040	3284685.00	538514.30	NA	wire	3
TN-041	3284682.90	538512.80	NA	metal tube	2
TN-042	3284679.60	538513.00	NA	no contact	-
TN-043	3284682.20	538509.90	NA	bolt	3
TN-044	3284683.50	538508.00	NA	rod	6
TN-045	3284684.50	538511.00	NA	wire	4
TN-046	3284687.20	538512.20	NA	wire	2
TN-047	3284687.90	538509.40	NA	munitions debris	3
TN-048	3284689.20	538511.10	NA	munitions debris	2
TN-049	3284689.50	538514.00	NA	piece railroad track	6

**Table B.4
East Pasture UXO Investigation Phase 6 Dig Results**

Anomaly ID	Northing	Easting	mV	Description	Depth
TN-050	3284691.20	538512.30	NA	2 bolts and munitions debris	9
TN-051	3284694.10	538515.80	NA	2 railroad spikes	4
TN-052	3284695.50	538512.70	NA	munitions debris	3
TN-053	3284697.60	538513.70	NA	munitions debris with HE residue	3
TN-054	3284696.60	538515.50	NA	5 bolts	6
TN-055	3284699.40	538514.30	NA	fins	4
TN-056	3284701.70	538513.30	NA	banding	4
TN-057	3284701.80	538516.00	NA	munitions debris	4
TN-058	3284703.80	538516.60	NA	munitions debris	3
TN-059	3284705.30	538516.50	NA	munitions debris	3
TN-060	3284707.00	538515.90	NA	munitions debris	2
TN-061	3284703.70	538513.10	NA	munitions debris w/ HE residue	4
TN-062	3284707.70	538513.90	NA	munitions debris	4
TN-063	3284713.80	538513.60	NA	munitions debris	2
TN-064	3284717.20	538510.30	NA	no contact	-
TN-065	3284715.50	538507.10	NA	munitions debris	3
TN-066	3284713.30	538507.10	NA	wire	2
TN-067	3284712.60	538503.40	NA	LIVE HE 81mm mortar, nose down vertically in ground	12
TN-068	3284711.60	538504.90	NA	munitions debris	2
TN-069	3284710.50	538506.00	NA	munitions debris	3
TN-070	3284711.40	538508.00	NA	no contact	-
TN-071	3284713.10	538509.40	NA	nail	2
TN-072	3284712.30	538511.50	NA	wire	3
TN-073	3284708.30	538508.00	NA	munitions debris	3
TN-074	3284707.30	538506.10	NA	munitions debris	2
TN-075	3284708.10	538502.40	NA	munitions debris	3
TN-076	3284706.10	538502.80	NA	wire	3
TN-077	3284704.50	538506.20	NA	munitions debris	2
TN-078	3284704.40	538510.50	NA	munitions debris	2
TN-079	3284699.80	538511.40	NA	munitions debris	2
TN-080	3284697.3	538510.8	NA	munitions debris	4
TN-081	3284695.6	538510.4	NA	munitions debris	2
TN-082	3284697.1	538507.8	NA	nail	3
TN-083	3284697.8	538509.1	NA	nail	2
TN-084	3284698.5	538510.1	NA	munitions debris	3
TN-085	3284699.4	538505.5	NA	no contact	-
TN-086	3284700.3	538506.6	NA	munitions debris w/ HE residue	3
TN-087	3284702.5	538505.4	NA	munitions debris	3
TN-088	3284702.4	538502.4	NA	munitions debris	6
TN-089	3284700.2	538502.4	NA	munitions debris	3
TN-090	3284699.5	538499.9	NA	wire	10
TN-091	3284697	538499.7	NA	munitions debris	3
TN-092	3284697	538502.7	NA	munitions debris	6
TN-093	3284696.3	538503.6	NA	munitions debris	6
TN-094	3284694.9	538500.8	NA	munitions debris	6
TN-095	3284694	538501.7	NA	munitions debris	6
TN-096	3284693.9	538504.8	NA	munitions debris	1
TN-097	3284694.5	538507.5	NA	munitions debris	2
TN-098	3284693.6	538508.8	NA	munitions debris	1
TN-099	3284692.7	538510	NA	munitions debris	3
TN-100	3284692.1	538505.4	NA	bolt	2
TN-101	3284689.1	538505.8	NA	munitions debris	3
TN-102	3284687.1	538507.3	NA	no contact	-
TN-103	3284686	538505.1	NA	munitions debris	2
TN-104	3284689.8	538502.5	NA	munitions debris	3
TN-105	3284691.8	538502.8	NA	wire	9
TN-106	3284691.2	538498.5	NA	munitions debris	4
TN-107	3284688.2	538498.3	NA	munitions debris	3
TN-108	3284686.6	538499.3	NA	munitions debris	3
TN-109	3284688.2	538500.2	NA	munitions debris	3
TN-110	3284687.9	538501.8	NA	munitions debris	4
TN-111	3284686.6	538502.7	NA	munitions debris	3
TN-112	3284685.3	538500.3	NA	munitions debris	2
TN-113	3284684.9	538503.3	NA	munitions debris	4
TN-114	3284681.6	538505	NA	munitions debris	9
TN-115	3284680	538508.3	NA	no contact	-
TNS-406	3284603	538434	NA	railroad spike	3
TNS-407	3284621.25	538433.5	NA	munitions debris	0
TNS-417	3284607	538437.5	NA	munitions debris	2
TNS-421	3284623.5	538438.75	NA	wire bundle (4 feet southwest of flagged point)	3
TNS-430	3284600.5	538439.5	NA	munitions debris	4
TNS-431	3284628	538441	NA	munitions debris	4
TNS-439	3284617.5	538442	NA	no contact	-
TNS-441	3284621.5	538442.5	NA	mortar fins	2
TNS-450	3284626	538444.5	NA	no contact	-
TNS-460	3284623.75	538449.25	NA	munitions debris	3
TNS-463	3284629.5	538449.5	NA	munitions debris	3
TNS-475	3284614.25	538454.25	NA	munitions debris	2
TNS-476	3284623.17	538455.67	NA	munitions debris	2
TNS-477	3284633.83	538455.17	NA	no contact	-
TNS-481	3284637.5	538455	NA	81mm mortar fins	9
TNS-484	3284629.5	538456	NA	munitions debris	1
TNS-485	3284644	538457.5	NA	LIVE 81mm mortar with fuze, nose down vertically in ground	6
TNS-491	3284637.25	538461	NA	munitions debris	2
TNS-492	3284630.13	538461.88	NA	nail	3
TNS-001	3284593	538474	NA	no contact	-

Table B.4
East Pasture UXO Investigation Phase 6 Dig Results

Anomaly ID	Northing	Easting	mV	Description	Depth
TNS-002	3284596.5	538477	NA	munitions debris and scrap can	2
TNS-003	3284599	538473	NA	nail	2
TNS-004	3284599	538479.5	NA	munitions debris	2
TNS-005	3284603	538483	NA	rail piece	0
TNS-006	3284604	538478	NA	munitions debris	2
TNS-007	3284606.5	538476	NA	munitions debris	3
TNS-008	3284608	538482.5	NA	no contact	-
TNS-009	3284608.5	538476.5	NA	munitions debris	2
TNS-010	3284609	538485.5	NA	wire	2
TNS-011	3284611	538480.5	NA	munitions debris	1
TNS-012	3284611.5	538471.5	NA	no contact	-
TNS-013	3284613.5	538469.5	NA	no contact	-
TNS-014	3284613.5	538478.5	NA	no contact	-
TNS-015	3284615	538475	NA	no contact	-
TNS-016	3284615.5	538485	NA	munitions debris	0
TNS-017	3284616.5	538468.5	NA	munitions debris	0
TNS-018	3284616.5	538477.5	NA	munitions debris	6
TNS-019	3284616.5	538482.5	NA	railroad spike	1
TNS-020	3284617.5	538480	NA	wire	10
TNS-021	3284617.5	538487	NA	munitions debris	3
TNS-022	3284618.5	538471	NA	bolt	2
TNS-023	3284618.5	538490	NA	wire	4
TNS-024	3284619.5	538478	NA	no contact	-
TNS-025	3284620	538472.5	NA	no contact	-
TNS-026	3284620	538482	NA	munitions debris	2
TNS-027	3284621	538468	NA	railroad spikes	0
TNS-028	3284622	538475.5	NA	no contact	-
TNS-029	3284622	538485	NA	munitions debris	2
TNS-030	3284623	538470	NA	munitions debris	2
TNS-031	3284623	538477.5	NA	no contact	-
TNS-032	3284624.5	538469	NA	munitions debris	0
TNS-033	3284624.5	538494	NA	munitions debris	4
TNS-034	3284626.5	538474	NA	no contact	-
TNS-035	3284626.5	538490.5	NA	no contact	-
TNS-036	3284627	538470.5	NA	no contact	-
TNS-037	3284627.5	538466.5	NA	no contact	-
TNS-038	3284628	538482.5	NA	munitions debris (3 feet west of flagged point)	4
TNS-039	3284629	538472	NA	no contact	-
TNS-040	3284629.5	538486	NA	munitions debris	2
TNS-041	3284630	538479.5	NA	railroad spike	6
TNS-042	3284630	538495	NA	no contact	-
TNS-043	3284630.5	538475.5	NA	no contact	-
TNS-044	3284630.5	538491.5	NA	munitions debris	2
TNS-045	3284632.5	538465	NA	no contact	-
TNS-046	3284632.5	538481.5	NA	no contact	-
TNS-047	3284633	538468	NA	no contact	-
TNS-048	3284633.5	538497.5	NA	no contact	-
TNS-049	3284634	538463.5	NA	banding strap piece	2
TNS-050	3284634.5	538492.5	NA	wire (4 feet northwest of flagged point)	2
TNS-051	3284635	538490.5	NA	munitions debris	3
TNS-052	3284636	538462.5	NA	munitions debris	2
TNS-053	3284636	538475	NA	rod	2
TNS-054	3284637	538473	NA	munitions debris	3
TNS-055	3284637	538484	NA	no contact	-
TNS-056	3284637	538502.5	NA	rod and tin cans	18
TNS-057	3284637.5	538489	NA	munitions debris	4
TNS-058	3284637.5	538493	NA	wire	3
TNS-059	3284638.5	538466.5	NA	munitions debris	3
TNS-060	3284639.5	538470.5	NA	munitions debris	3
TNS-061	3284640	538495.5	NA	3 railroad spikes	3
TNS-063	3284640.5	538479.5	NA	munitions debris	3
TNS-065	3284641.5	538476.5	NA	munitions debris	4
TNS-067	3284642.5	538486.5	NA	metal tube	1
TNS-068	3284642.5	538493	NA	railroad spike	3
TNS-070	3284643	538472.5	NA	munitions debris with HE residue	6
TNS-072	3284643.5	538481	NA	wire	3
TNS-073	3284643.5	538496.5	NA	2 railroad spikes	4
TNS-074	3284643.5	538500.5	NA	munitions debris	6
TNS-075	3284643.5	538504.5	NA	decayed tin cans and pieces (3 feet west of flagged point)	0
TNS-076	3284644	538474.5	NA	munitions debris	4
TNS-078	3284645.5	538491	NA	munitions debris	4
TNS-079	3284646	538494	NA	railroad spike	0
TNS-080	3284646	538500.5	NA	-	6
TNS-081	3284646.5	538476	NA	munitions debris	3
TNS-082	3284647.5	538489.5	NA	rod	3
TNS-085	3284648	538498	NA	railroad spike	4
TNS-087	3284648.5	538481.5	NA	munitions debris with HE residue	3
TNS-088	3284648.5	538485	NA	munitions debris	3
TNS-091	3284650	538486.5	NA	munitions debris	4
TNS-092	3284650	538509	NA	munitions debris	4
TNS-093	3284650.5	538490.5	NA	munitions debris	4
TNS-094	3284650.5	538498.5	NA	bolts	24
TNS-096	3284651	538481.5	NA	munitions debris	3
TNS-097	3284651.5	538501	NA	railroad spike	2
TNS-099	3284652	538504	NA	wire	6
TNS-100	3284652.5	538477	NA	munitions debris	4

**Table B.4
East Pasture UXO Investigation Phase 6 Dig Results**

Anomaly ID	Northing	Easting	mV	Description	Depth
TNS-101	3284653	538488.5	NA	munitions debris	6
TNS-102	3284653.5	538483	NA	munitions debris	6
TNS-103	3284653.5	538491.5	NA	munitions debris	4
TNS-104	3284654	538485	NA	munitions debris	3
TNS-105	3284654	538498	NA	munitions debris	6
TNS-108	3284655	538487.5	NA	munitions debris with HE residue	8
TNS-109	3284655	538511.5	NA	railroad spike	1
TNS-110	3284656	538490	NA	munitions debris	3
TNS-113	3284656.5	538505	NA	munitions debris	6
TNS-114	3284657	538495.5	NA	munitions debris	0
TNS-116	3284658	538498.5	NA	munitions debris	3
TNS-117	3284658.5	538481	NA	can	2
TNS-118	3284658.5	538513.5	NA	railroad spikes	2
TNS-122	3284659.5	538489.5	NA	wire	24
TNS-123	3284659.5	538492.5	NA	munitions debris shards	12
TNS-125	3284660.5	538485	NA	munitions debris	6
TNS-126	3284660.5	538510	NA	munitions debris	4
TNS-130	3284662	538482.5	NA	munitions debris	2
TNS-131	3284662	538486	NA	munitions debris	2
TNS-132	3284662.5	538490.5	NA	munitions debris	4
TNS-133	3284662.5	538503.5	NA	wire	5
TNS-135	3284663	538494	NA	munitions debris	1
TNS-138	3284664	538485.5	NA	trash pit/ can dump	36
TNS-139	3284664	538505.5	NA	railroad spike	4
TNS-140	3284664	538511.5	NA	munitions debris	2
TNS-141	3284664	538517.5	NA	spring	3
TNS-143	3284665	538496.5	NA	munitions debris	6
TNS-144	3284665	538503	NA	railroad spike	1
TNS-148	3284666	538518.5	NA	railroad spike	6
TNS-150	3284666.5	538513	NA	munitions debris	0
TNS-151	3284666.5	538515	NA	munitions debris	2
TNS-152	3284667	538506	NA	munitions debris	10
TNS-155	3284667.5	538492	NA	munitions debris	6
TNS-160	3284669	538491.5	NA	munitions debris	4
TNS-161	3284669	538496.5	NA	munitions debris	2
TNS-162	3284669	538500.5	NA	munitions debris	3
TNS-165	3284669.5	538508	NA	railroad spike	2
TNS-166	3284670.5	538514	NA	trash pit	36
TNS-167	3284670.5	538518	NA	munitions debris	3
TNS-174	3284672.5	538521	NA	munitions debris	6
TNS-175	3284673	538504	NA	can	12
TNS-180	3284674.5	538502	NA	wire	2
TNS-181	3284675	538518.5	NA	no contact	-
TNS-182	3284675.5	538504.5	NA	munitions debris	3
TNS-183	3284675.5	538509.5	NA	munitions debris	3
TNS-184	3284676	538519.5	NA	munitions debris	2
TNS-186	3284676.5	538512	NA	bolt	4
TNS-192	3284679	538508	NA	bolt	3
TNS-193	3284679.5	538504.5	NA	munitions debris	2
TNS-195	3284680	538496	NA	munitions debris	12
TNS-196	3284680	538512	NA	rod and wire	30
TNS-199	3284680.5	538501.5	NA	munitions debris	1
TNS-200	3284681	538498	NA	munitions debris	1
TNS-207	3284682	538504.5	NA	no contact	-
TNS-210	3284683	538496.5	NA	munitions debris	-
TNS-216	3284684.5	538501.5	NA	munitions debris	-

APPENDIX C
PHASE 2 PHOTO DOCUMENTATION



Geophysical Survey Towed-Array Setup



4-Inch Stokes Mortar UXO Item



Metal Debris

APPENDIX D
PHASE 3 PHOTO DOCUMENTATION



Instrument Setup



GPS RTK Base Station Setup at CSSA Benchmark 3



“Bouncing Betty” Antipersonnel Landmine Munitions Debris



Rifle Grenade Munitions Debris

APPENDIX E
OCTOBER 2006 MEETING DOCUMENTATION

Meeting Summary
Thursday, October 5, 2006

Place: Camp Stanley Storage Activity (CSSA)

Time: 10am – 11am

Participants:	<u>Name</u>	<u>Organization</u>
	Glaré Sanchez	CSSA
	Tom Tijerina	CSSA
	Teresa Benavides	CSSA
	Roland Abney	CSSA
	Chris Beal	Portage
	Jim Cannizzo	CSSA
	Julie Burdey	Parsons
	Eric Tennyson	Parsons
	Michael Short	Parsons (via telephone)
	John Ferguson	CSSA
	Will _____	CSSA

Purpose: Discuss Parsons’ recommendations following unexploded ordnance (UXO) identification work in the East Pasture

Following UXO identification work in the East Pasture, CSSA has had questions regarding what level of construction support Parsons recommends for future construction activities.

During the meeting, Parsons indicated that the work in the East Pasture was done in accordance with *DoD 6055.9STD, DoD Ammunition and Explosives Safety Standards*. However, the work was considered to be a UXO identification project, and not a removal action as defined by that document. Removal actions are typically conducted for property transfers or changes in land use; neither of these situations applies at CSSA’s East Pasture which is, and will continue to be, an active range. Because the work was not considered a removal action, DDESB approval of the work plan was not obtained, nor was a conventional Explosives Safety Submission required. Fort Sam Houston provided support to dispose of any UXO items identified during Parsons’ work. The methods Parsons used in conducting the geophysical surveys, identifying anomalies, and excavating anomalies were the same methods that would have been used for a removal action. A penetration analysis was not conducted to determine a site-specific depth that ordnance might be encountered. The type of ordnance potentially present at the site was unknown at the onset of the identification work. However, a conservative approach was taken, and all selected anomalies were identified. None were deeper than 4 feet. Based on this finding, the type of ordnance encountered, and the geology of the area it is unlikely that any ordnance is at a depth greater than four feet. Parsons UXO identification activities reduced the risk in the investigation areas from high to low risk. Parsons recommends that any personnel involved with subsurface work in low risk areas first be provided UXO recognition training. In addition, Parsons recommends UXO construction support in low risk areas. In accordance with EP 75-1-2, Chapter 6, paragraph 6-1, (3) “the level of effort for construction support is site/task-specific and will be determined on a case-by-case basis.....” Further in paragraph 6-1, c. it states:

When a determination is made that the probability of encountering MEC on a construction site is moderate to high (i.e., a subsurface removal of the known construction footprint will be conducted), an OE Safety Specialist will be on-site to provide safety oversight. When a determination is made that the probability of encountering MEC on a construction site is low (i.e., only MEC standby support is required), an OE Safety Specialist is generally not required on-site. For those areas categorized as low risk only standby support is required. EP 75-1-2, paragraph 6-6 defines standby support as on-site support. However, since CSSA receives on call EOD support from Fort Sam Houston for any potential UXO findings, CSSA can consider this "standby support" merely located off-site. CSSA should consider stand by on-site construction support for projects during which there is a potential for the sub-surface work to extend beyond the investigated areas or the area is categorized as moderate to high risk. CSSA agreed with this approach at the meeting. All of the areas for which construction projects have been funded have been investigated. If the TO0209 budget allows, CSSA would like additional areas identified on the attached map to also be investigated. However, these are not urgent needs. The only other upcoming project that CSSA would like to complete within the next few months is to clear the vegetation in (behind) the northern side of the berm. Michael Short recommended that UXO personnel survey the area prior to any vegetation removal activities. It is anticipated that this clearance could be accomplished in less than a week, likely 3-4 days. This work can be conducted when the ranges are not being used, during upcoming holidays, or weekends.

Parsons proposed that Michael Short could conduct a 1-hour UXO Recognition Training course for personnel currently involved with construction in low risk areas. This training can be videotaped and training materials given to CSSA so that Teresa Benavides can conduct future training. Parsons also proposed preparing a draft map of the East Pasture, and perhaps even the entire installation, which shows low risk, and moderate to high risk areas. This map could be utilized during CSSA's digging permit process. In addition, Parsons will revise the recommendations/conclusions section of the East Pasture Report to include the approach agreed upon at this meeting.